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## Annual Update of the U.S. International Transactions Accounts

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In June 2020, the Bureau of Economic Analysis (BEA) released the results of the 2020 annual updates of the U.S. International Transactions Accounts (ITAs) and the U.S. International Investment Position (IIP) Accounts. BEA has also accelerated the availability of its most detailed annual trade in services statistics by service type and geographic area, which previously were typically released in October of each year.<sup>1</sup>

As in previous years, this annual update of the ITAs incorporates newly available and revised source data for the preceding 3 years and additional years for selected series, and recalculated seasonal and trading day adjustments for the preceding 5 years (or more for series whose not-seasonally-adjusted estimates were revised for more than the preceding 5 years). With the 2020 annual update, BEA also incorporates the results of its benchmark survey of selected services and intellectual property transactions; this affected certain types of trade in services statistics for the preceding 4 years.

In addition, this annual update includes the adoption of new methodologies and data sources for several accounts, most notably in trade in services. Many of these improvements affected statistics starting with the first quarter of 1999, the earliest period affected across the full set of accounts. Finally, the annual update includes presentational changes, particularly for trade in services.<sup>2</sup> The methodological and presentational improvements are the result of a multiyear effort by BEA to research and develop enhanced statistics. These improvements, along with the incorporation of newly available and revised source data (including the benchmark survey) and seasonal adjustments, serve to provide more timely, accurate, consistent, and relevant statistics for data users.

Table A provides a descriptive summary of the major changes to the ITAs. Appendixes A and B provide numerical summaries of revisions to key ITA balances.<sup>3</sup>

#### Table A. Summary of Major Changes in Classifications, Methdologies, Data Sources, and Presentations to the International Transactions Accounts

Components	Major changes
	Multiple Accounts
	Added two new standard tables, tables 1.4 and 1.5, to, respectively, present (1) geographic detail by type of transaction and (2) annual trade in goods and services with expanded country and geographic area detail.
	Presented 90 countries and geographic areas in ITA tables 1.5 and 3.3. Previously, only 38 countries and geographic areas were presented in ITA table 3.3.
Overall	Presented nongeographic country groupings as addenda items in ITA tables 1.3, 1.4, 1.5, 2.2, 2.3, 3.2, and 3.3 instead of within the primary geographic hierarchy. Discontinued the publication of the Organization of the Petroleum Exporting Countries (OPEC) grouping.
	Used Arabic numbers instead of Roman numerals to refer to quarters. Used short-form country names except in cases where the long- form name is more commonly used.
	Added global total column to ITA table 1.3.
	Current Account To align with international statistical guidelines, included three new major categories in the presentation of trade in services in the
	ITAs, bringing the number of major categories to 12. Improved the classification of services categories to align with international guidelines.
Trade in services	Incorporated the results of the 2017 Benchmark Survey of Selected Services and Intellectual Property Transactions with Foreign Persons.
	Improved methods for estimating non-surveyed and non-reported transactions for services categories based on BEA services surveys. Expanded service-type detail available in standard table presentations.
Manufacturing services on inputs owned by others	Introduced as a major category. No estimates yet provided; this category is a placeholder for future statistics.
Maintenance and repair services n.i.e.	Reclassified installation, alteration, and training services to technical, trade-related, and other business services, a component of other business services.
	Estimated average fares based on ticket-level data from the U.S. Department of Transportation Origin and Destination Survey for exports and from the Airlines Reporting Corporation for imports. Incorporated improved passenger count data from U.S. Customs and Border Protection.
Transport	Used new source data from IHS Markit on vessels that transport goods to and from the United States to estimate sea freight and sea port services.
	Improved estimates of air freight exports and air port services using better coverage on BEA surveys of U.S. and foreign airlines along with backcasting methods.
	For other business and other personal travel, refined counts of travelers using more detailed information on classes of admission, and refined calculations of average expenditures. Removed estimates of travelers traveling for health and education purposes from traveler counts. Improved allocation to separately published subcomponents: other business travel and other personal travel. Used statistics from Statistics Canada as basis for allocation of trade with Canada.
Travel (for all purposes including education)	For education-related travel, used data from Student and Exchange Visitor Information Service as basis for estimating average expenditures for exports and imports and number of students for exports. Supplemented source data on number of students for imports with data from various sources that includes directly enrolled post-secondary students. Refined estimates for exports to cover primary and secondary students but excluded former students performing Optional Practical Training.
	For health-related travel, adopted an estimation methodology based in part on data from the Survey of International Air Travelers about expenditures of travelers traveling for health purposes. For expenditures by border, seasonal, and other short-term workers, improved estimates of the expenditures of short-term workers in the United States by expanding the set of visas classified as applying to foreign professionals.
Construction services	Began publishing construction as a separate major category to better align with international guidelines. Previously, construction services were a component of other business services.
	Introduced estimates of trade in financial intermediation services indirectly measured (FISIM).
Financial services	Introduced estimates of market-making services. These services are measured by margins on buying and selling financial securities. Divided financial services into two main categories: FISIM and "Explicitly charged and other financial services." Within explicitly charged and other financial services, divided services into the following subcategories: (1) brokerage and market-making services; (2) underwriting and private placement services; (3) credit card and other credit-related services; (4) financial management services; (5) financial advisory and custody services; (6) securities lending, electronic funds transfer, and other services.
Charges for the use of intellectual property n.i.e.	In accordance with international guidelines, reclassified certain transactions in intellectual property out of charges for the use of intellectual property n.i.e. Transactions are classified by the type of intellectual property being traded and by the type of rights being conveyed (rights to use, rights to reproduce and/or distribute, and outright sales/purchases). Transactions reclassified include (1) sales or purchases of ownership rights for patents, processes and trade secrets to research and development services; (2) sales or purchases of ownership rights for franchises and trademarks to the capital account; (3) sales or purchases of ownership rights and licenses to use (excluding reproduction or distribution) for computer software to computer services; (4) sales or purchases of ownership rights and licenses to use (excluding reproduction or distribution) for books and music and recorded performances and events to audiovisual services. Divided the remaining transactions into the following categories: (1) franchises and trademarks licensing fees; (2) licenses for the use of out distribute audiovisual products.
Telecommunications, computer, and information services	Reclassified sales or purchases of ownership rights and licenses to use (excluding reproduction or distribution) for computer software from charges for the use of intellectual property n.i.e. to computer services.
Other business services	Removed construction from technical, trade-related, and other business services to create the separate major category of construction services. Reclassified health services, education services, and audiovisual production services to the new category of personal, cultural, and recreational services. Reclassified the sale or purchases of ownership rights for patents, processes and trade secrets from charges for the use of intellectual
	Reclassified the sale of purchases of ownership rights for patents, processes and trade secrets from charges for the use of intellectual property n.i.e. to research and development services. Reclassified installation, alteration, and trading services from maintenance and repair services n.i.e. to technical, trade-related and other business services. Introduced as a major category. Subdivided into (1) audiovisual services; (2) artistic-related services; (3) other personal, cultural, and
Personal, cultural, and recreational (PCR) services	recreational services, (2) and visual services, (2) and visual services, (3) other personal, entering, and recreational services. Reclassified transactions in end-user rights to audiovisual content and outright sales or purchases of audiovisual originals from charges for the use of intellectual property n.i.e. to audiovisual services. Reclassified various transactions from other business services using expanded detail collected on BEA's surveys of selected services and intellectual property transactions.

Components	Major changes	
Primary income	Replaced monetary interest measure for loans and deposits in other investment income with pure interest measured by subtracting FISIM from loan interest and adding FISIM to deposit interest. Added addenda to ITA table 4.1 presenting estimates of other investment interest income receipts and payments using monetary interest.	
	For compensation of employees, improved estimates of the compensation of foreign professionals by expanding the set of visas classified as relevant.	
	Refined the econometric model used for estimating payments of personal transfers.	
Improved estimates of payments of private transfers to better measure scholarships and other support provided to the United States.		
	Reclassified investment grants to capital account payments.	
Improved estimates of secondary income receipts by incorporating source data on foreign gifts to U.S. universities.		
	Capital account	
Capital account	To better align with international guidelines, reclassified various transactions from the current account: (1) outright sales and purchases of trademarks and franchises from charges for the use of intellectual property n.i.e.; (2) payments of investment grants from secondary income; (3) transfer fees paid by one sporting franchise to another for the transfer of a player.	
	Incorporated newly identified source data for certain transfer fees for transfers of sports players.	
Financial account		
Other investment	Added line items for other equity assets and, as a placeholder, for other equity liabilities. Reclassified certain U.S. government capital subscriptions or other contributions to international organizations from loan assets to other equity assets.	
	Introduced newly identified U.S. government transactions in other equity assets and loan assets.	

Key changes in classifications, methodologies, and presentations are highlighted as follows:

- Three new major categories in the presentation of trade in services have been introduced: manufacturing services on inputs owned by others (which currently does not include estimates but serves as placeholder for future statistics); construction; and personal, cultural, and recreational services.
- New methodologies and data sources or survey data have improved estimates of exports and imports of several types of transport services: air passenger services, sea freight and sea port services, air port services, and air freight services (exports only).
- Travel services estimates have been improved by methodological refinements for other business and other personal travel and by new methodologies and data sources for education-related travel and health-related travel.
- Estimates for two types of trade in financial services have been introduced to address coverage gaps: financial intermediation services indirectly measured (FISIM) and market-making services (represented by margins on buying and selling financial securities). FISIM estimates have been included as a separate component of financial services and market-making services have been combined with brokerage services as a component of financial services. Some of the other components of financial services have been reorganized.
- Estimates of several types of transactions in intellectual property have been reclassified from charges for the use of intellectual property n.i.e. (not included elsewhere) to computer services, research and development services, audiovisual services (in the new major category personal, cultural, and recreational services) and the capital account to more closely align with international statistical guidelines. The transactions that were reclassified relate to sales or purchases of ownership rights of intellectual property and certain rights to use, but not to reproduce or distribute intellectual property.
- Several other types of transactions have been reclassified within services. Among these are the reclassification of certain transactions in technical, trade-related, and other business services to the new category of personal, cultural, and recreational services; the removal of construction services to create a separate major category; and the reclassification of installation services from maintenance and repair services to technical, trade-related, and other business.
- In primary income, new methodologies and data sources have been adopted for portfolio and other investment income for consistency with the new FISIM estimates in financial services, and a new methodology has been adopted to introduce inflation compensation

gains and losses to foreign holders of U.S. Treasury Inflation Protected Securities (TIPS) in other investment income payments.

- In secondary income, investment grants have been reclassified to the capital account, the methodology used to estimate payments of personal transfers has been refined, estimates of general government receipts now include estimates for gifts to U.S. universities from foreign residents, and the presentation of secondary income transactions in ITA table 5.1 has been expanded.
- Capital account statistics have been expanded to include investment grants, reclassified from secondary income; outright sales and purchases of trademarks and franchise fees, reclassified from charges for the use of intellectual property n.i.e. in the services accounts; and improved coverage of fees paid by sporting franchises for the transfer of players.
- A new category—other equity—has been introduced within other investment assets and liabilities. Certain U.S. government capital subscriptions or other contributions to international organizations have been reclassified to other equity assets from loans. Certain U.S. government transactions in other equity and loans have been included for the first time in statistics on other investment assets.

### 2020 Annual Update in Historical Context

The 2020 annual update represents the first annual update of statistics for 2019, the second annual update of statistics for 2018, and the third annual update of statistics for 2017. Some revisions to the annual and quarterly statistics as a percentage of trend gross domestic product (GDP) are larger than typical first, second, and third annual revisions that were released each June in 2000–2019 (for statistics for 1999–2018) and some are smaller.<sup>1</sup>

The mix of larger and smaller revisions applies both to the main balances and to the lower-level aggregates. As shown in table I, mean absolute revisions (MARs) for the quarterly and annual statistics for the current-account balance are larger for the 2017 and 2018 statistics than corresponding third and second revisions from past releases, but revisions for the 2019 statistics are smaller. (In this table, a "ratio" value less than one indicates that the June 2020 revisions are smaller than average revisions in annual updates of past years.) The MARs from the 2020 annual update partly reflect the net effects of several major methodological changes in estimating trade in services that were incorporated in this update. Some previous annual updates have incorporated fewer methodological changes, but a few incorporated several such changes. The MARs from the 2020 annual update also partly reflect some relatively small reclassifications out of trade in services into the capital account. MARs for net lending and borrowing from financial-account transactions are roughly comparable to MARs from past annual updates for the quarterly statistics and considerably smaller for annual statistics.

## Table I. Comparison of Revisions From the 2020 Annual Update With Revisions From Previous AnnualUpdates

	MAR from the 2020 annual update	MAR from previous annual updates	Ratio <sup>1</sup>
	Balance on current accou	int	
Quarterly statistics			
2017 <sup>2</sup>	0.379	0.109	3.46
2018 <sup>3</sup>	0.203	0.136	1.49
2019 <sup>4</sup>	0.099	0.149	0.6
Annual statistics			
2017 <sup>2</sup>	0.379	0.091	4.1
2018 <sup>3</sup>	0.202	0.115	1.7
2019 <sup>4</sup>	0.085	0.130	0.6
	Net lending or borrowing from financial-a	ccount transactions	
Quarterly statistics			
2017 <sup>2</sup>	0.507	0.420	1.2
2018 <sup>3</sup>	0.553	0.627	0.88
2019 <sup>4</sup>	0.816	0.648	1.2
Annual statistics			
2017 <sup>2</sup>	0.120	0.320	0.3
2018 <sup>3</sup>	0.126	0.298	0.42
2019 <sup>4</sup>	0.002	0.370	0.0

MAR Mean absolute revision

- 1. Ratio is MAR from the 2020 annual update divided by MAR from previous annual updates.
- 2. Revisions to statistics on transactions for 2017 are compared with revisions in previous third annual updates in 2002–2019.
- 3. Revisions to statistics on transactions for 2018 are compared with revisions in previous second annual updates in 2001–2019.
- 4. Revisions to statistics on transactions for 2019 are compared with revisions in previous first annual updates in 2000–2019.

Note. All revisions are computed as a percentage of trend current-dollar gross domestic product.

Geometric means of MARs ratios are shown in table II for some of the main aggregates and balances. (To illustrate, the value of 1.51 for the balance on current account in the first column is the geometric mean of 3.46, 1.49, and 0.66 from the third column of table I). The 2020 revisions to exports of goods and services and income receipts and its components are mostly larger than in past annual updates. Revisions to imports of goods and services and income payments and its components are smaller than historical revisions. The 2020 revisions to service exports are particularly large, as are revisions to the balance on goods and the balance on goods and services. Revisions to the two main financial-account aggregates are smaller than typical.

## Table II. Ratios of the Revisions From the 2020 Annual Update to Revisions From Previous AnnualUpdates

[Geometric mean of ratios of MARs]<sup>1</sup>

	Quarterly statistics	Annual statistics	
Exports of goods and services and income receipts	1.92	2.02	
Goods exports	1.02	0.41	
Services exports	3.60	3.89	
Primary income receipts	1.49	1.60	
Imports of goods and services and income payments	0.58	0.61	
Goods imports	0.52	0.97	
Services imports	0.78	0.58	
Primary income payments	2.02	2.42	
Net U.S acquisition of financial assets excluding financial derivatives	0.80	0.36	
Net U.S. incurrence of liabilities excluding financial derivatives	0.60	0.14	
Balance on goods	0.68	1.15	
Balance on services	4.16	4.82	
Balance on goods and services	4.01	6.22	
Balance on primary income	0.90	0.59	
Balance on secondary income	0.72	0.44	
Balance on current account	1.51	1.69	
Net lending/borrowing from financial account	1.10	0.09	
Addenda:			
Exports of goods and services and income payments excluding effects of the 2014 definitional changes <sup>2</sup>	2.43	2.61	
Imports of goods and services and income receipts excluding effects of the 2014 definitional changes <sup>2</sup>	1.04	1.22	

#### MARs Mean absolute revisions

- 1. Geometric mean computed over three ratios: (1) ratio of MAR of statistics for 2019 to MAR from other first annual updates; (2) ratio of MAR of statistics for 2018 to MAR from other second annual updates; (3) ratio of MAR of statistics for 2017 to MAR from other third annual updates.
- 2. See the discussion in the text.

Table II also presents two addenda ratios that exclude the effects in the historical averages of definitional changes implemented in the 2014 comprehensive restructuring of the ITAs. In 2014, "exports of goods and services and income receipts" and "imports of goods and services and income payments" were redefined to include secondary income receipts and secondary income payments, respectively. Previously, secondary income statistics were only published on a net basis in "balance on secondary income."<sup>2</sup> Inclusion of gross secondary income flows in the current-account aggregates resulted in revisions to these series for 2014 that were much larger than typical years. To avoid the distortions created by these redefinitions, the values in the addenda are based on calculations of 2014 revisions that use a common definition for the revised and the previously published estimates that excludes secondary income. The recalculated 2014 revisions are more similar to typical revisions of the aggregates, so the historical averages used in computing the ratios in the addenda are more reflective of typical revisions than those used for computing ratios shown in the main body of the table. In the addendum, revisions on both the export and import sides are larger than those shown in the main body of the table; June 2020 revisions on the import side are in line with, rather than smaller than, historical revisions according to this alternative standard.

- 1. Geometric mean computed over three ratios: (1) ratio of MAR of statistics for 2019 to MAR from other first annual updates; (2) ratio of MAR of statistics for 2018 to MAR from other second annual updates; (3) ratio of MAR of statistics for 2017 to MAR from other third annual updates.
- 2. For more information on the 2014 comprehensive restructuring, see Jeffrey R. Bogen, Mai-Chi Hoang, Kristy L. Howell, and Erin M. Whitaker, "Comprehensive Restructuring and Annual Revision of the U.S. International Transactions Accounts," *Survey* 94 (July 2014).

### **Sources of Revisions**

### **Current account and capital account**

### Expanded and enhanced trade in services statistics

The 2020 annual update introduced several improvements within trade in services that represent the culmination of a multiyear effort to enhance and expand BEA trade in services statistics. These improvements include more detail on some of the most dynamic services, such as research and development, intellectual property, financial services, health services, and computer and information services.

In this annual update, as part of the third phase of its trade in services initiative,<sup>4</sup> BEA incorporated the results of the expanded benchmark and quarterly surveys of selected services and intellectual property transactions. Exports and imports for 2016–2019 of several types of trade in services were revised to incorporate the results of the benchmark and quarterly surveys. The new information collected on the benchmark and quarterly surveys was also used to introduce a number of enhancements, many of which are directly reflected in the revised ITA tables; others are primarily reflected in BEA's most detailed annual trade in services tables.

**Introduction of new major services categories.** In this annual update, BEA introduced three new major categories to its presentation of trade in services in the ITAs, one of which will act as a placeholder for future statistics, bringing the number of major categories to 12. These categories are included in the recommendations of international statistical guidelines, such as the International Monetary Fund's Balance of Payments and International Investment Position Manual, Sixth Edition (BPM6).

- *Manufacturing services on inputs owned by others.* Manufacturing services on inputs owned by others, a specific form of contract manufacturing, was added to the presentation of services statistics, but BEA does not yet provide values for this series. Instead, "n.a." (not available) is shown in the tables.<sup>5</sup>
- *Construction.* Construction covers the services provided to create, renovate, repair, or extend buildings, land improvements, and civil engineering constructions such as roads and bridges. Additionally, inputs purchased by foreign construction contractors for projects in the United States are included in construction exports, and inputs purchased abroad by U.S. construction contractors are included in construction imports. However, in practice, no data are available to estimate inputs purchased by foreign contractors for projects in the United States, so BEA does not provide values for this component of construction exports. Instead, "n.a." is shown. These transactions were previously recorded in a construction subcategory under the major category "other business services" and are now published as the new major category of "construction" to better align with *BPM6* guidelines and enable greater

comparability of U.S. services trade statistics with statistics produced by trading-partner countries.  $^{6}$ 

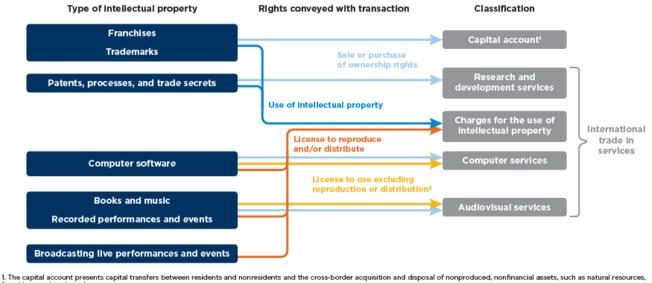
- *Personal, cultural, and recreational services.* This new service category consists of the following three subcategories:
  - Audiovisual services, which covers production of audiovisual content, transactions in end user rights to use audiovisual content, and outright sales and purchases of audiovisual originals
  - Artistic-related services, which includes the services provided by performing artists, authors, composers, and other visual artists; set, costume, and lighting design; presentation and promotion of performing arts and other live entertainment events, and fees to artists and athletes for performances, sporting events, and similar events
  - Other personal, cultural, and recreational services, which includes services such as education services delivered online, remotely provided telemedicine services, and services associated with museum and other cultural, sporting gambling, and recreational activities, except those acquired by customers traveling outside their country of residence

Previously, BEA trade in services statistics included many audiovisual services in the categories of charges for the use of intellectual property and other business services. The expansions to BEA's benchmark and quarterly surveys of selected services and intellectual property allowed BEA to separately identify and classify these transactions as personal, cultural, and recreational services per *BPM6* recommendations.

**Improved classification of intellectual property and other transactions.** With this annual update, BEA introduced improved classifications of services categories, particularly intellectual property-related transactions, to more closely align with international statistical guidelines. Information collected on the expanded benchmark and quarterly surveys of selected services and intellectual property allows BEA to distinguish the type of rights conveyed in an intellectual property transaction. Specifically, outright sales and purchases of intellectual property can now be distinguished from conveyances of rights to use and, for certain types of intellectual property, from conveyances of rights to reproduce and distribute. Distinguishing these outright sales and purchases allows BEA to classify them in major services categories other than charges for the use of intellectual property n.i.e.

In the previous presentation of charges for the use of intellectual property, transactions were grouped by the type of intellectual property being traded, without regard to the type of right being conveyed. Chart 1 shows that in the new presentation of charges for the use of intellectual property, transactions are grouped by the type of rights being conveyed *and* by the type of intellectual property being traded.<sup>7</sup> Some transactions that were previously included in charges for the use of intellectual property have been reclassified to personal, cultural, and recreational services, and others have been reclassified to the capital account in the ITAs, in accordance with the treatment recommended in *BPM6*.

### Chart 1. BEA's Treatment of Selected Intellectual Property



franchises, and trademarks. 2. Transactions related to noncustomized computer software, books and music, or recorded performances and events installed on physical media with rights to perpetual use are recorded in trade in goods. U.S. Bureau of Economic Analysis

Along with the reclassifications of transactions in intellectual property, BEA also reclassified other services components and made other changes to align the trade in services statistics with international guidelines including:

- Installation, alteration, and training services, previously included in maintenance and repair services n.i.e., is now classified in technical, trade-related, and other business services, a component of other business services.
- Goods exports related to projects abroad undertaken by firms performing architectural, engineering, and mining services are no longer collected on BEA's services surveys and are no longer removed from gross revenues in calculating exports of these services. (Architectural, engineering, and mining services are included in other business services.) In addition, the foreign expenses of these firms are no longer collected on the services surveys and have been removed from the statistics of imports of these services.<sup>8</sup>

**New subcategory detail.** The new major services categories and reclassified intellectual property transactions described above are now reflected in the presentation of services statistics in ITA tables 1.2, 1.3, 1.4, 1.5, and 3.1. In addition to these changes, BEA has introduced new subcategory detail in table 3.1 under financial services; these subcategories reflect, in part, the introduction of FISIM and market-making services in financial services. Table B shows the new presentation of services statistics in table 3.1 compared to the previous presentation.

### Table B. New Presentation of U.S. International Trade in Services, ITA Table 3.1

Previous structure of table 3.1	New structure of table 3.1
Exports of services	Exports of services
	Manufacturing services on physical inputs owned by others <sup>1</sup>
Maintenance and repair services n.i.e.	Maintenance and repair services n.i.e.
Transport	Transport
Sea transport	Sea transport
Freight	Freight
Port	Port
Air transport	Air transport
Passenger	Passenger
Freight	Freight
Port	Port
Other modes of transport	Other modes of transport
Travel (for all purposes including education)	Travel (for all purposes including education)
Business	Business
Expenditures by border, seasonal, and other short-term workers	Expenditures by border, seasonal, and other short-term workers
Other business travel	Other business travel
Personal	Personal
Health related	Health related
Education related	Education related
Other personal travel	Other personal travel
	Construction
	Construction abroad
	Foreign contractors' expenditures in the United States
Insurance services	Insurance services
Direct insurance	Direct insurance
Reinsurance	Reinsurance
Auxiliary insurance services	Auxiliary insurance services
Financial services	Financial services
	Explicitly charged and other financial services
Securities brokerage, underwriting, and related services	Brokerage and market-making services
	Underwriting and private placement services
	Credit card and other credit-related services
Financial management, financial advisory, and custody services	Financial management services
· · · · · · · · · · · · · · · · · · ·	Financial advisory and custody services
Credit card and other credit-related services	
Securities lending, electronic funds transfer, and other services	Securities lending, electronic funds transfer, and other services
	Financial intermediation services indirectly measured
Charges for the use of intellectual property n.i.e. <sup>2</sup>	Charges for the use of intellectual property n.i.e.
Industrial processes	Franchises and trademarks licensing fees
Computer software	Licenses for the use of outcomes of research and development
Trademarks and franchise fees	Licenses to reproduce and/or distribute computer software
Audio-visual and related products	Licenses to reproduce and/or distribute computer software
Other intellectual property	Licenses to reproduce and/or distribute audiovisual products
Telecommunications, computer, and information services	Telecommunications, computer, and information services
Telecommunications, computer, and mormation services	Telecommunications services
Computer services	Computer services
Information services	Information services
Other business services	Other business services
Research and development services	Research and development services
-	•
Professional and management consulting services	Professional and management consulting services
Technical, trade-related, and other business services	Technical, trade-related, and other business services
	Personal, cultural, and recreational services
	Audiovisual services
	Artistic-related services
	Other personal, cultural, and recreational services
Government goods and services n.i.e.	Government goods and services n.i.e.
mports of services	Imports of services
	Manufacturing services on physical inputs owned by others <sup>1</sup>
Maintenance and repair services n.i.e.	Maintenance and repair services n.i.e.
Transport	Transport
Sea transport	Sea transport
Freight	Freight
Port	Port
Air transport	Air transport
Passenger	Passenger
Freight	Freight
Port	Port
Other modes of transport	Other modes of transport
	Travel (for all purposes including education)
Travel (for all purposes including education);	Business
Travel (for all purposes including education); Business	
	Expenditures by border, seasonal, and other short-term workers
Business	Expenditures by border, seasonal, and other short-term workers Other business travel
Business Expenditures by border, seasonal, and other short-term workers	
Business Expenditures by border, seasonal, and other short-term workers Other business travel	Other business travel
Business Expenditures by border, seasonal, and other short-term workers Other business travel Personal	Other business travel Personal
Business Expenditures by border, seasonal, and other short-term workers Other business travel Personal Health related	Other business travel Personal Health related

Construction in the luited States       Insurance services     U.S. contractors' expenditures abroad       Insurance services     Insurance       Direct insurance     Direct insurance       Reinsurance     Reinsurance       Auxiliary insurance services     Auxiliary insurance services       Financial services     Explicitly charge and other financial services       Securities brokerage, underwriting, and related services     Explicitly charge and ander francial services       Financial management, financial advisory, and custody services     Financial and other credit-related services       Credit card and other credit-related services     Financial and ther credit-related services       Securities lending, electronic funds transfer, and other services     Financial intermediation services indirectly measured       Industrial processes     Financial intermediation services indirectly measured       Computer software     Licenses for the use of intellectual property n.i.e.       Trademarks and franchise fees     Licenses to reproduce and/or distribute advioival products       Other intellectual property     Telecommunications, computer, and information services       Telecommunications, services     Computer services       Information services     Computer services       Information services     Computer services       Computer services     Computer services       Telecommunications, computer, and information services	Previous structure of table 3.1	New structure of table 3.1
Insurance services     Insurance services       Direct insurance     Direct insurance       Reinsurance     Direct insurance       Auxiliary insurance services     Direct insurance       Auxiliary insurance services     Direct insurance services       Financial services     Explicitly character making services       Securities brokerage, underwriting, and related services     Explicitly character making services       Financial management, financial advisory, and custody services     Direct insurance services       Credit card and other credit-related services     Financial management services       Securities lending, electronic funds transfer, and other services     Financial intermediation services inferectly measured       Charges for the use of intellectual property n.i.e.     Industrial processes       Computer software     Licenes tor the use of intellectual property n.i.e.       Trademarks and franchise fees     Licenes tor the use of intellectual property       Telecommunications, computer, and information services     Telecommunications, computer, and information services       Telecommunications, services     Computer services       Information services     Telecommunications, computer, and information services       Telecommunications, computer, and information services     Telecommunications, computer, and information services       Telecommunications, computer, and information services     Telecommunications, computer, and information services <td></td> <td>Construction in the United States</td>		Construction in the United States
Direct insurance     Direct insurance       Reinsurance     Reinsurance       Auxilary insurance services     Auxilary insurance services       Financial services     Financial services       Securities brokerage, underwriting, and related services     Brokerage and market-making services       Gredit card and other credit-related services     Brokerage and market-making services       Financial management, financial advisory, and custody services     Financial advisory and custody services       Credit card and other credit-related services     Financial advisory and custody services       Credit card and other credit-related services     Financial advisory and custody services       Securities lending, electronic funds transfer, and other services     Financial intermediation services indirectly measured       Charges for the use of intellectual property n.i.e.     Charges for the use of intellectual property n.i.e.       Trademarks and franchise fees     Licenses to reproduce and/or distribute computer software       Audio-visual and related products     Licenses to reproduce and/or distribute computer software       Telecommunications, computer, and information services     Telecommunications, computer, and information services       Telecommunications services     Other business services       Information services     Professional and management consulting services       Professional and management consulting services     Professional and management consulting services       <		U.S. contractors' expenditures abroad
Reinsurance       Reinsurance         Auxiliary insurance services       Auxiliary insurance services         Financial services       Financial services         Securities brokerage, underwriting, and related services       Explicitly character making services         Securities brokerage, underwriting, and related services       Brokerage and market-making services         Financial management, financial advisory, and custody services       Financial management services         Credit card and other credit-related services       Financial management services         Securities lending, electronic funds transfer, and other services       Financial intermediation services infinently more services         Charges for the use of intellectual property n.i.e.       Industrial processes       Carges for the use of intellectual property n.i.e.         Trademarks and franchise fees       Licenses to reproduce and/or distribute computer software         Audio-visual and related products       Telecommunications, computer, and information services         Other intellectual property       Telecommunications services         Telecommunications services       Computer services         Information services       Telecommunications services         Professional and management consulting services       Telecommunications services         Professional and management consulting services       Personal, cultural, and recreational services	Insurance services	Insurance services
Auxiliary insurance services     Auxiliary insurance services       Financial services     Financial services       Securities brokerage, underwriting, and related services     Brokerage and market-making services       Securities brokerage, underwriting, and related services     Brokerage and market-making services       Financial annagement, financial advisory, and custody services     Credit card and other credit-related services       Financial management, financial advisory, and custody services     Financial management services       Securities lending, electronic funds transfer, and other services     Securities lending, electronic funds transfer, and other services       Securities lending, electronic funds transfer, and other services     Financial advisory and custody services       Charges for the use of intellectual property n.i.e.     Charges for the use of intellectual property n.i.e.       Industrial processes     Charges for the use of outcomes of research and development       Trademarks and franchise fees     Licenses to reproduce and/or distribute computers oftware       Audio-visual and related products     Licenses to reproduce and/or distribute computers oftware       Telecommunications, computer, and information services     Telecommunications, computer, and information services       Telecommunications services     Research and development services       Information services     Research and development services       Telecommunications, computer, and information services     Telecommunications, computer,	Direct insurance	Direct insurance
Financial services       Financial services         Securities brokerage, underwriting, and related services       Explicitly charged and other financial services         Securities brokerage, underwriting, and related services       Underwriting and private placement services         Credit card and other credit-related services       Financial advisory and custody services         Financial intermediation services       Financial advisory and custody services         Credit card and other credit-related services       Financial intermediation services         Securities lending, electronic funds transfer, and other services       Financial intermediation services interedy measured         Charges for the use of intellectual property n.i.e.       Charges for the use of intellectual property n.i.e.         Industrial processes       Franchise fees         Computer software       Licenses for the use of intellectual property         Audio-visual and related products       Licenses to reproduce and/or distribute computer software         Licenses to reproduce and/or distribute audiovisual products       Computer services         Telecommunications, computer, and information services       Telecommunications, computer, and information services         Telecommunications services       Information services       Information services         Nother business services       Research and development services       Research and development services	Reinsurance	Reinsurance
Financial services       Financial services         Securities brokerage, underwriting, and related services       Explicitly charged and other financial services         Securities brokerage, underwriting, and related services       Underwriting and private placement services         Credit card and other credit-related services       Financial advisory and custody services         Financial intermediation services       Financial advisory and custody services         Credit card and other credit-related services       Financial intermediation services         Securities lending, electronic funds transfer, and other services       Financial intermediation services interedy measured         Charges for the use of intellectual property n.i.e.       Charges for the use of intellectual property n.i.e.         Industrial processes       Franchise fees         Computer software       Licenses for the use of intellectual property         Audio-visual and related products       Licenses to reproduce and/or distribute computer software         Licenses to reproduce and/or distribute audiovisual products       Computer services         Telecommunications, computer, and information services       Telecommunications, computer, and information services         Telecommunications services       Information services       Information services         Nother business services       Research and development services       Research and development services	Auxiliary insurance services	Auxiliary insurance services
Securities brokerage, underwriting, and related services       Brokerage and market-making services         Underwriting and private placement services       Underwriting and private placement services         Financial management, financial advisory, and custody services       Financial advisory and custody services         Credit card and other credit-related services       Financial advisory and custody services         Securities lending, electronic funds transfer, and other services       Securities lending, electronic funds transfer, and other services         Charges for the use of intellectual property n.i.e.       Industrial processes         Computer software       Licenses for the use of intellectual property n.i.e.         Trademarks and franchise fees       Licenses to reproduce and/or distribute computer software         Licenses to reproduce and/or distribute computer software       Licenses to reproduce and/or distribute audiovisual products         Other intellectual property       Telecommunications services       Telecommunications services         Information services       Other business services       Nofer business services         Other business services       Professional and management consulting services       Professional and management consulting services         Telecommunications services       Telecommunications services       Audiovisual services         Other business services       Professional and management consulting services       Professional		
Securities brokerage, underwriting, and related services       Brokerage and market-making services         Underwriting and private placement services       Underwriting and private placement services         Financial management, financial advisory, and custody services       Financial advisory and custody services         Credit card and other credit-related services       Financial advisory and custody services         Securities lending, electronic funds transfer, and other services       Securities lending, electronic funds transfer, and other services         Charges for the use of intellectual property n.i.e.       Industrial processes         Computer software       Licenses for the use of intellectual property n.i.e.         Trademarks and franchise fees       Licenses to reproduce and/or distribute computer software         Licenses to reproduce and/or distribute computer software       Licenses to reproduce and/or distribute audiovisual products         Other intellectual property       Telecommunications services       Telecommunications services         Information services       Other business services       Nofer business services         Other business services       Professional and management consulting services       Professional and management consulting services         Telecommunications services       Telecommunications services       Audiovisual services         Other business services       Professional and management consulting services       Professional		Explicitly charged and other financial services
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Addiovisual services       Artistic-related services       Other personal, cultural, and recreational services       Government goods and services n.i.e.       Balance on services       Supplemental detail on insurance transactions:       Premiums received       Losses paid       Premiums paid		
Addiovisual services       Artistic-related services       Other personal, cultural, and recreational services       Government goods and services n.i.e.       Balance on services       Supplemental detail on insurance transactions:       Premiums received       Losses paid       Premiums paid		Personal, cultural, and recreational services
Other personal, cultural, and recreational servicesGovernment goods and services n.i.e.Balance on servicesBalance on servicesBalance on servicesSupplemental detail on insurance transactions:Premiums receivedPremiums receivedLosses paidPremiums paid		
Government goods and services n.i.e.Government goods and services n.i.e.Balance on servicesBalance on servicesSupplemental detail on insurance transactions:Supplemental detail on insurance transactions:Premiums receivedPremiums receivedLosses paidLosses paidPremiums paidPremiums paid		Artistic-related services
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Balance on servicesBalance on servicesSupplemental detail on insurance transactions:Supplemental detail on insurance transactions:Premiums receivedPremiums receivedLosses paidLosses paidPremiums paidPremiums paid	Government goods and services n.i.e.	1 , ,
Supplemental detail on insurance transactions:Supplemental detail on insurance transactions:Premiums receivedPremiums receivedLosses paidLosses paidPremiums paidPremiums paid		
Premiums received     Premiums received       Losses paid     Losses paid       Premiums paid     Premiums paid		
Premiums paid Premiums paid		
Premiums paid Premiums paid	Losses paid	Losses paid
		•
TADADEA LEUNALEN	Losses recovered	Losses recovered

n.i.e. Not included elsewhere

- 1. Manufacturing services on physical inputs owned by others in the United States is a new major service category, but BEA does currently provide values for this series. Therefore, "n.a." is shown in the tables.
- 2. For more details on the location of certain transactions of charges for the use of intellectual property in the new structure, see Chart 1 of this article.

**Expanded geographic detail.** With the 2020 annual update, BEA also expanded the geographic detail on trade in services that is available on a quarterly basis. The number of countries and geographic areas presented in ITA table 3.3 ("U.S. International Trade in Services by Area and Country, Not Seasonally Adjusted Detail") was expanded from 38 to 90.<sup>9</sup> This expansion accelerates to a quarterly basis the publication of statistics for many trading partners that were only available on an annual basis. BEA also included services statistics for this expanded set of countries in ITA table 1.5, a newly published table (see "Introduction of new standard ITA tables" in the Other Changes in Presentation box for more information).

**Expanded detail in the trade in services statistics and accelerated release of the most detailed annual statistics by country and affiliation and by service type from October to June.** Once a year, BEA publishes its most detailed statistics on trade in services by service type, country and region, and affiliation. These annual statistics are drawn from the same source data as, and are fully consistent with, the trade in services statistics in the ITAs. In previous years, these detailed trade in services statistics have generally been released in October, in conjunction with a report in BEA's monthly journal, the *Survey of Current Business (Survey)*, on trade in services and services supplied through affiliates.<sup>10</sup> This year, the detailed annual statistics,

presented in international services tables 2.1–2.3, were released in late June and early July, instead of in October. The detailed statistics were also expanded to reflect the services presentation changes described above. In addition, several new services categories collected on the expanded benchmark and quarterly surveys of selected services and intellectual property were added to the detailed annual services statistics.

Table C shows the new structure of international services table 2.1 compared to the previous structure. International services tables 2.2 and 2.3 were updated to reflect the same service-type detail as in table 2.1; however, for some service-type categories, geographic detail is not presented, specifically postal services, road and other transport services, foreign contractors' expenditures in the United States, rights to use audiovisual products and audiovisual originals, movies and television programming, and books and sound recordings.

Previous structure of table 2.1	New structure of table 2.1
Exports of services	Exports of services
	Manufacturing services on inputs owned by others <sup>1</sup>
Maintenance and repair services n.i.e.	Maintenance and repair services n.i.e.
Transport	Transport
Sea transport	Sea transport
Freight	Freight
Port	Port
Air transport	Air transport
Passenger	Passenger
Freight	Freight
Port	Port
Other modes of transport	Other modes of transport
Postal services	Postal services
Road and other transport	Road and other transport
Travel (for all purposes including education)	Travel (for all purposes including education)
Business	Business
Expenditures by border, seasonal, and other short-term workers Other business travel	Expenditures by border, seasonal, and other short-term workers Other business travel
Personal	Personal
Health related	Health related
Education related	Education related
Other personal travel	Other personal travel
otilei personai travei	Construction
	Construction abroad
	Foreign contractors' expenditures in the United States
Insurance services	Insurance services
Direct insurance	Direct insurance
Reinsurance	Reinsurance
Auxiliary insurance services	Auxiliary insurance services
Financial services	Financial services
	Explicitly charged and other financial services
Securities brokerage, underwriting, and related services	Brokerage and market-making services
	Underwriting and private placement services
	Credit card and other credit-related services
Financial management, financial advisory, and custody services	Financial management services
	Financial advisory and custody services
Credit card and other credit-related services	
Securities lending, electronic funds transfer, and other services	Securities lending, electronic funds transfer, and other services
2	Financial intermediation services indirectly measured
Charges for the use of intellectual property n.i.e. <sup>2</sup>	Charges for the use of intellectual property n.i.e.
	By type of intellectual property:
	Franchises and trademarks licensing fees
Industrial processes	Trademarks
Computer software	Franchise fees
Trademarks	Licenses for the use of outcomes of research and development
Franchise fees	Licenses to reproduce and/or distribute computer software
Audio-visual and related products	Licenses to reproduce and/or distribute audiovisual products
Movies and television programming	Movies and television programming
Books and sound recordings	Books and sound recordings
Broadcasting and recording of live events Other intellectual property <sup>3</sup>	Broadcasting and recording of live events
other intellectual property"	Duoffiliation
	By affiliation: Unaffiliated
	Affiliated U.S. parents' exports to their foreign affiliates
	1 1 0
	U.S. affiliates' exports to their foreign parent groups

 Table C. New Presentation of U.S. Trade in Services, International Services Table 2.1

Previous structure of table 2.1	New structure of table 2.1
Telecommunications, computer, and information services	Telecommunications, computer, and information services
Telecommunications services	Telecommunications services
Computer services	Computer services
	Computer software, including end-user licenses and customization
	Cloud computing and data storage services
	Other computer services
Information services	Information services
	News agency services
	Database and other information services
Other business services	Other business services
Research and development services	Research and development (R&D) services
	Work undertaken on a systematic basis to increase the stock of
	knowledge
	Provision of customized and non-customized R&D services
	Sale of proprietary rights arising from research and development
	Other R&D services
Professional and management consulting services	Professional and management consulting services
	Legal, accounting, management consulting, and public relations service
Legal services	Legal services
Accounting, auditing, and bookkeeping services	Accounting, auditing, bookkeeping, and tax consulting services
Business and management consulting and public relations	Dusiness and monocoment securities and multic velocities securities
services	Business and management consulting and public relations services
	Advertising and related services
Advertising	Advertising services
	Market research and public opinion polling services
	Trade exhibition and sales convention services
Technical, trade-related, and other business services	Technical, trade-related, and other business services
Architectural and engineering services	Architectural, engineering, scientific, and other technical services
Architecture and engineering abroad	Architectural services
Ai chitectule and engineering abroad	
Providence and the set of the set	Engineering services
Foreign contractors' expenditures in the United States	
Construction <sup>4</sup>	
Construction abroad	
Foreign contractors' expenditures in the United States	
Industrial engineering	
	Scientific and other technical services
	Waste treatment and de-pollution, agricultural, and mining services
	Waste treatment and de-pollution services
	Services incidental to agriculture, forestry, and fishing
Mining	Services incidental to mining, and oil and gas extraction
Mining abroad	
Foreign contractors' expenditures in the United States	
Operating leasing services	Operating leasing services
Trade-related services	Trade-related services
Sports and performing arts <sup>5</sup>	Trade-related services
Training services <sup>6</sup>	
5	Other
Other business services n.i.e.	
	Personal, cultural, and recreational services
	Audiovisual services
	Audiovisual production services
	Rights to use audiovisual products
	Movies and television programming
	Books and sound recordings
	Audiovisual originals
	Movies and television programming
	Books and sound recordings
	Artistic-related services
	Other personal, cultural, and recreational services
	Health services
	Education services
	Heritage and recreational services
Government goods and services n.i.e.	Government goods and services n.i.e.
Imports of services	Imports of services
	Manufacturing services on inputs owned by others <sup>1</sup>
Maintonanco and ronair comvises n i a	
Maintenance and repair services n.i.e.	Maintenance and repair services n.i.e.
Transport	Transport
Sea transport	Sea transport
Freight	Freight
Port	Port
Air transport	Air transport
Passenger	Passenger
Freight	Freight
Port	Port
Other modes of transport	Other modes of transport
Postal services	Postal services
Road and other transport Travel (for all purposes including education)	Road and other transport
Leaver for all purposes including education	Travel (for all purposes including education)
Business Expenditures by border, seasonal, and other short-term work	Business Expenditures by border, seasonal, and other short-term workers

Previous structure of table 2.1	New structure of table 2.1
Other business travel	Other business travel
Personal Health related	Personal Health related
	Health related
Education related	Education related
Other personal travel	Other personal travel
	Construction
	Construction in the United States
	U.S. contractors' expenditures abroad
Insurance services	Insurance services
Direct insurance	Direct insurance
Reinsurance	Reinsurance
Auxiliary insurance services	Auxiliary insurance services
Financial services	Financial services
	Explicitly charged and other financial services
Securities brokerage, underwriting, and related services	Brokerage and market-making services
	Underwriting and private placement services
	Credit card and other credit-related services
Financial management, financial advisory, and custody services	Financial management services
	Financial advisory and custody services
Credit card and other credit-related services	
Securities lending, electronic funds transfer, and other services	Securities lending, electronic funds transfer, and other services
becarries renamy, electionic rando transfer, and other services	Financial intermediation services indirectly measured
Charges for the use of intellectual property n.i.e. <sup>2</sup>	Charges for the use of intellectual property n.i.e.
charges for the use of intellectual property inde.	By type of intellectual property:
To desired a second	Franchises and trademarks licensing fees
Industrial processes	Trademarks
Computer software	Franchise fees
Trademarks	Licenses for the use of outcomes of research and development
Franchise fees	Licenses to reproduce and/or distribute computer software
Audio-visual and related products	Licenses to reproduce and/or distribute audiovisual products
Movies and television programming	Movies and television programming
Books and sound recordings	Books and sound recordings
Broadcasting and recording of live events	Broadcasting and recording of live events
Other intellectual property <sup>3</sup>	
· ···· ·······························	By affiliation:
	Unaffiliated
	Affiliated
	U.S. parents' exports to their foreign affiliates
	U.S. affiliates' exports to their foreign parent groups
Telecommunications, computer, and information services	Telecommunications, computer, and information services
Telecommunications services	Telecommunications services
Computer services	Computer services
	Computer software, including end-user licenses and customization
	Cloud computing and data storage services
	Other computer services
Information services	Information services
	News agency services
	Database and other information services
Other business services	Other business services
Research and development services	Research and development (R&D) services
•	Work undertaken on a systematic basis to increase the stock of
	knowledge
	Provision of customized and non-customized R&D services
	Sale of proprietary rights arising from research and development
	Other R&D services
Professional and management consulting services	Professional and management consulting services
	Legal, accounting, management consulting, and public relations services
Legal services	Legal, accounting, management consulting, and public relations services
	0
Accounting, auditing, and bookkeeping services	Accounting, auditing, bookkeeping, and tax consulting services
Business and management consulting and public relations	Business and management consulting and public relations service
services	о о .
	Advertising and related services
Advertising	Advertising services
	Market research and public opinion polling services
	Trade exhibition and sales convention services
Technical, trade-related, and other business services	Technical, trade-related, and other business services
Architectural and engineering services	Architectural, engineering, scientific, and other technical services
Architecture and engineering in the United States	Architectural services
	Engineering services
U.S. contractors' expenditures abroad	
Construction <sup>4</sup>	
Construction in the United States	
U.S. contractors' expenditures abroad	
Industrial engineering	Cointific and other to shring corriges
	Scientific and other technical services
	Wasto treatment and do pollution agricultural and mining corrigos
	Waste treatment and de-pollution, agricultural, and mining services
	Waste treatment and de-pollution services
Mining	

Previous structure of table 2.1	New structure of table 2.1
Mining in the United States	
U.S. contractors' expenditures abroad	
Operating leasing services	Operating leasing services
Trade-related services	Trade-related services
Sports and performing arts <sup>5</sup>	
Training services <sup>6</sup>	
Other business services n.i.e.	Other
	Personal, cultural, and recreational services
	Audiovisual services
	Audiovisual production services
	Rights to use audiovisual products
	Movies and television programming
	Books and sound recordings
	Audiovisual originals
	Movies and television programming
	Books and sound recordings
	Artistic-related services
	Other personal, cultural, and recreational services
	Health services
	Education services
	Heritage and recreational services
Government goods and services n.i.e.	Government goods and services n.i.e.
Balance on services	Balance on services
Memoranda:	Addenda:
Exports of services by affiliation:	Exports of services by affiliation:
Unaffiliated	Unaffiliated
Affiliated	Affiliated
U.S. parents' exports to their foreign affiliates	U.S. parents' exports to their foreign affiliates
U.S. affiliates' exports to their foreign parent groups	U.S. affiliates' exports to their foreign parent groups
Imports of services by affiliation:	Imports of services by affiliation:
Unaffiliated	Unaffiliated
Affiliated	Affiliated
U.S. parents' imports from their foreign affiliates	U.S. parents' imports from their foreign affiliates
U.S. affiliates' imports from their foreign parent groups	U.S. affiliates' imports from their foreign parent groups
	Supplemental detail on insurance transactions: <sup>7</sup>
	Premiums received
	Direct insurance
	Reinsurance
	Losses paid
	Direct insurance
	Reinsurance
	Premiums paid
	Direct insurance
	Reinsurance
	Losses recovered
	Direct insurance
	Reinsurance

**n.i.e.** Not included elsewhere

- 1. Manufacturing services on physical inputs owned by others in the United States is a new major service category, but BEA does currently provide values for this series. Therefore, "n.a." is shown in the tables.
- 2. For more details on the location of certain transactions of charges for the use of intellectual property in the new structure, see Chart 1 of this article.
- 3. Transactions for the rights to use and rights to reproduce and distribute other intellectual property have been recorded in licenses for the use of outcomes of research and development.
- 4. Construction has been recorded as a new major services category.
- 5. Statistics for sports and performing arts have been recorded as artistic-related services under personal, cultural, and recreational services.
- 6. Statistics for training services have been recorded as education services under other personal, cultural, and recreational services.
- 7. Supplemental detail on insurance transactions is now published in international services table 2.1.

Along with its international services tables 2.1–2.3 using standard trade in services classifications, BEA also publishes trade in information and communications technology (ICT) and potentially ICT-enabled services in international services tables 3.1–3.3. Statistics on trade in ICT and potentially ICT-enabled services use alternative aggregations, based on international guidelines, of certain standard trade in services categories. Beginning with statistics for 1999,

BEA utilized the expanded detail collected for the trade in services statistics to update, at the same time as the 2020 update of international services tables 2.1–2.3, its statistics on trade in potentially ICT-enabled services based on more granular services categories.

These detailed annual statistics on trade in services by service type and partner country and on trade in ICT and potentially ICT-enabled services will be discussed in greater detail along with statistics on services supplied through affiliates of multinational enterprises in an article in the upcoming October 2020 issue of the *Survey*.

### **Other Methodological, Source Data, and Presentational Improvements**

# *Improvements to estimation procedures for statistics based on BEA's trade in services surveys (universe estimation)*

BEA has reprocessed and revised the survey-based portion of its statistics of international transactions in maintenance and repair services; construction; insurance services; financial services; charges for the use of intellectual property; telecommunications, computer, and information services; other business services; and personal, cultural, and recreational services. These revisions affect data from 2006 forward. By reprocessing these statistics, BEA has introduced refinements to the estimation process and increased the consistency of its estimates across all periods. Most significantly, BEA has substantially improved its procedures for estimating unreported data.

In producing statistics for trade in services, BEA estimates transactions for companies that do not report on its surveys—either because they do not meet the threshold for reporting on nonbenchmark surveys and thus are not required to report or because they do not report in a timely manner. It also estimates detailed transactions for companies that are only required to report transactions on an aggregate basis. These estimates allow BEA to construct a data set, consisting of a combination of reported data and estimated data, that includes every company in the (known) universe of services traders. BEA calls the production of estimates needed to construct this data set "universe estimation."

As part of universe estimation, BEA estimates unreported transactions by carrying forward past reporting based on the collective growth rates of companies that do report. However, to limit the impact of very large changes in reported values on the growth rates that are applied to nonreporting companies, the growth rates had previously been restricted to a narrow range. In the 2020 annual update, BEA implemented new procedures that are expected to improve the accuracy of its estimates of unreported transactions by relaxing the range of growth rates and using multiple criteria to limit the impact of extreme changes. Rather than simply limiting the range of allowable growth rates, large individual-company changes in the sample of reported transactions used to calculate growth rates are first censored. The growth rates calculated from the resulting modified sample are still restricted, but the allowable range is much wider than the range that was used previously. In addition, the use of adjustments to more closely align estimates with nonsurvey information, which were sometimes applied to the calculated growth rates, has been discontinued, thereby allowing estimates to be based more directly on reported data.

BEA has also increased the degree of flexibility used in universe estimation in revising estimates of unreported data by carrying back information obtained in subsequent periods. Prior to the 2020 annual update, BEA had in only very limited cases revised estimates of unreported data based on subsequent reporting. Most typically, such cases involved revising back 1 to 3 years

based on reporting on a benchmark survey or the integration of a large change in reported values from a specific company. For the 2020 annual update, where a gap in reporting exists for any company, BEA developed a method to systematically reestimate all unreported transactions based on that company's own reported transactions before and after the gap and on the collective growth rate of companies that reported during the gap. For companies that reported for the first time on a benchmark survey, a similar method was used to estimate prior-period transactions while scaling for the likelihood that the reporter did not have any such trade in services (or did not exist at all) in a given prior period.

BEA also estimates during universe estimation unreported detail for companies with relatively small trade in services transactions that are only required to report their total values of exports and imports. Historically, BEA allocated such reported totals across service types and across affiliations and countries of trading partners according to the distribution for all companies reflected in reported data. BEA has now introduced a more targeted approach to estimate unreported detail that relies on other information reported by the company, such as responses to questions on the services types traded and the company's primary industry, resulting in more accurate statistics on trade in services by type.

### Improved methodology and source data for transport services

Air passenger services. Air passenger services occurs when a foreign resident is transported internationally on a flight operated by a U.S. carrier (U.S. exports) or when a U.S. resident is transported internationally on a flight operated by a foreign carrier (U.S. imports). Trade in air passenger transport has historically been estimated by multiplying the number of air passengers on such flights by estimates of average fares. The numbers of foreign resident and U.S. resident air passengers are proxied by the numbers of traveling foreign citizens and U.S. citizens using data from U.S. Customs and Border Protection (CBP) of the U.S. Department of Homeland Security (DHS). Average fares had been based on data from the Survey of International Air Travelers (SIAT), which is conducted by the National Travel and Tourism Office (NTTO) of the International Trade Administration in the U.S. Department of Commerce. The resulting estimates were complemented with reported values from BEA mandatory surveys of U.S. and foreign airline operators that measured interline settlements (transactions between airlines reflecting payment for services rendered under cooperative agreements such as codesharing), and for U.S. exports, that is, revenue earned by U.S. airlines for transporting foreign passengers between foreign ports. These complementary values represented portions of air passenger transport not captured in the CBP and SIAT data.

For the 2020 update, BEA has enhanced its estimation methodology and replaced and refined its data sources for air passenger services statistics beginning with 1999. Average fares are now based on data from the U.S. Department of Transportation (DOT) Origin and Destination Survey for exports and data from the Airlines Reporting Corporation (ARC) for imports. These data contain ticket-level information on tens of millions of passengers' travel patterns (for example, information on airports, flight connections, and carriers), allowing highly granular estimation of average fares.

Use of the more detailed source data allows BEA estimates to more accurately reflect the nationality of the carriers that operate each leg of a passenger's itinerary. Under the previous methodology, the fare for a passenger's full itinerary was allocated to a single country based on the nationality of the air carrier that operated the leg that transported the passenger across the U.S. border. The full itinerary fare paid by a foreign passenger crossing the U.S. border on a leg

operated by a U.S. carrier was attributed to U.S. exports. Similarly, the full itinerary fare paid by a U.S. passenger crossing the border on a foreign-operated leg was attributed to imports from the country of the carrier of that leg. This simple allocation method did not account for the fact that carriers from other countries may have operated other legs of the itinerary. Consequently, it didn't reflect the fact that trade with multiple countries may occur on the same itinerary or the fact that only some legs of an itinerary may represent international trade. Neither did it reflect the fact that some trade may have occurred on itineraries in which U.S. passengers crossed the border on U.S.-operated legs or in which foreign passengers crossed the border on foreign-operated legs.

Under the new methodology, BEA allocates the portion of each foreign passenger's flight itinerary (based on mileage) that is operated by U.S. carriers to exports without regard to whether a U.S. carrier operates the leg crossing the U.S. border. Likewise, it allocates the portion of each U.S. passenger's flight itinerary that is operated by foreign carriers to imports. BEA makes these allocations using observed flight patterns from the DOT and ARC data matched to airport and carrier information from the data on numbers of passengers.

This more precise allocation procedure enables BEA to attribute imports to the appropriate countries according to the residencies of the foreign carriers and to capture interline settlements in estimated average fares instead of relying on survey data from airline operators.<sup>11</sup> In addition, the more detailed data allow BEA to more accurately allocate exports to the countries of the foreign passengers. The country of a foreign passenger had previously been assigned primarily based on the passenger's last foreign passengers is not directly available in any of BEA's source data, under the new methodology, the country of each passenger is proxied using the origin point of the itinerary, improving the geographic attribution of exports.

Additionally, BEA expanded its coverage of passengers' expenditures to include certain nonticket fees (such as baggage fees and reservation fees), based on data from the DOT Bureau of Transportation Statistics, and it incorporated passenger count data that CBP began collecting under an improved electronic method in July 2010.

Itineraries of foreign passengers traveling between two foreign ports that do not include a crossing of the border but that include operation of one or more legs by a U.S. carrier should be included in air passenger services exports. Similarly, international itineraries of U.S. passengers that are served by foreign carriers but don't include a U.S. border crossing should be included in imports. However, these itineraries are not accurately captured by any of BEA's source data, so they continue to be an omission in the statistics.

From 1999 to 2013, exports of air passenger services were revised up for more years than they were revised down; downward revisions were more frequent starting with 2014. Imports were revised up in all years and in nearly every quarter.

**Sea freight and port services.** BEA revised exports and imports of both sea freight and sea port services<sup>12</sup> using new source data on vessels that transport goods to and from the United States. In particular, BEA used name matching techniques to merge vessel names recorded in CBP data on goods exported from and imported to the United States by sea with a global database of vessels from IHS Markit. In doing so, BEA obtained additional information on the exporting and importing vessels, such as ship type and the nationalities of the operating companies. This has resulted in revised estimates for total transport services provided by either U.S. operators (which resulted in revisions to sea freight exports and sea port imports) or foreign operators (which

resulted in revisions to sea freight imports and sea port exports). Total trade in sea freight and sea port services were revised beginning with statistics for 2008, and country-level estimates of sea freight and sea port services were revised beginning with statistics for 1999. For most years over the 2008 to 2019 time period, sea freight exports were revised upward; sea port exports, sea freight imports, and sea port imports were all revised downward.

**Air freight and port services.** BEA collects quarterly information on air freight and air port services through mandatory surveys of U.S. and foreign airlines. In 2018, BEA improved its survey coverage by expanding its outreach efforts, resulting in an increased number of airlines reporting data. In the 2020 annual update, BEA used the new survey data along with backcasting methods for years prior to 2018 to revise exports and imports of air port services and exports of air freight services. Exports of air freight services and imports of air port services were revised beginning with statistics for 2006 and exports of air port services were revised beginning with statistics for 1999. For air freight services, revisions were relatively small, with upward revisions for each year from 2010–2013 and small downward revisions from 2014–2019. Revisions in air port services, however, were larger. Air port services exports were revised up every year from 1999–2019. Air port services imports were revised up each year from 2013–2015 and were revised down each year from 2016–2019.

### Improved methodology and source data for travel services

Travel (for all purposes including education) in the ITAs records expenditures on goods and services by foreign residents visiting the United States (U.S. exports) and by U.S. residents visiting other countries (U.S. imports). They include both business and personal travel.

**Other business and other personal travel.** Combined, other business travel and other personal travel compose a subaggregate measure of travel (for all purposes including education) that excludes expenditures by border, seasonal, and other short-term workers and expenditures by travelers whose primary purpose for travel is education or health. In 2019, other business travel and other personal travel together accounted for 72 percent of U.S. travel exports and for 90 percent of U.S. travel imports.

For all countries other than Canada and Mexico and excluding cruise-related travel expenditures, this subaggregate component of the travel account is derived by multiplying the number of travelers by a measure of their average expenditures.<sup>13</sup> The number of travelers is obtained from NTTO and is based on data collected by CBP. Average expenditures are based on data obtained from the SIAT.<sup>14</sup> Beginning with statistics for 1999, BEA improved its estimates of the number of foreign travelers entering the United States, the number of U.S. travelers going abroad, and average expenditures.

The number of foreign travelers entering the United States was improved to better approximate the number of other business and other personal travelers. In calculating this number, BEA must distinguish foreign visitors traveling for purposes other than education, health, and short-term work from other foreign visitors counted by CBP. It does so by using designations that reflect each traveler's basis for admission to the United States. BEA counts of foreign travelers to the United States were previously calculated using a set of classes of admission that did not fully align with the BEA definition of other business and other personal travel. BEA worked with NTTO to obtain more detailed data on counts of travelers by class of admission, and BEA refined its traveler counts to exclude all education-related travelers and include additional classes of admission that it considers to be other personal or other business travelers. BEA also introduced an adjustment to remove an estimate of the number of health-related travelers, which cannot be distinguished by class of admission, that is derived from the health-related travel estimates described below.

The estimate of the number of U.S. other business and other personal travelers going abroad was improved to exclude an estimate of education-related travelers. Source data used to approximate the number of U.S. travelers are counts of all U.S. citizens who depart the United States on international flights. Previously, this estimate did not include any adjustments to remove travelers traveling for the purpose of education, health, or short-term work, as the number of travelers data do not include any information that would reflect the purpose of travel. BEA has introduced adjustments to remove an estimate of the number of education-related travelers using country-level shares derived from information from the SIAT on the share of trips taken for educational purposes and an estimate of the number of health-related travelers.

Average expenditures were refined by introducing improvements in identifying the relevant sample for estimating average expenditures, in treating missing data and outliers, and accounting for a redesign of the SIAT in 2012 that led to better estimates of the level of reported expenditures. BEA also carried back for earlier years changes introduced during the 2016 annual update that incorporate a moving average of the quarterly estimates. Use of the moving average reduces the variability introduced by small samples.

Beginning with statistics for 1999, BEA refined its estimates of other business and other personal travel for Canada. Other business and other personal travel statistics for Canada are based on information provided to BEA by Statistics Canada. BEA has incorporated revised statistics provided by Statistics Canada and updated its methodology to remove an estimate of expenditures by border, seasonal, and other short-term workers from other business travel spending, which are included, but not separately identified, in the statistics provided by Statistics Canada.

Also beginning with statistics for 1999, BEA improved its allocation of the subaggregate measure of travel—other business and other personal travel—to the separately published components of other business travel and other personal travel. Previously, the subaggregate component was allocated to other business travel and other personal travel using shares derived from information from the SIAT for all countries. For Canada, BEA now uses the allocation provided by Statistics Canada. For all other countries, BEA improved its calculation of shares derived from the SIAT to better reflect the share of spending, rather than the share of travelers, and to reduce variability introduced by small sample sizes.

From 1999 to 2019, the revised estimates of the subaggregate measure of other business and other personal travel generally grew more slowly than the previously published estimates. Since 1999, the share of other business travel in this subaggregate measure has declined. The revised statistics show a less rapid decline in this share.

**Education-related travel.** Education-related travel includes all expenditures by travelers whose primary purpose for travel is education. In 2019, education-related travel exports accounted for 23 percent of U.S. travel exports and for 9 percent of U.S. travel imports.

Previously, BEA estimated education-related travel by multiplying the number of foreign students in the United States and the number of U.S. students studying abroad, which were obtained from the Institute for International Education's (IIE) annual report, "Open Doors" (OD), by estimates of students' average expenditures, which were based on data from the U.S. Departments of Education and Labor. For the 2020 annual update, BEA either replaced or enhanced its data sources for both the number of students and average expenditures. For exports, BEA now calculates the number of students using data from the DHS Student and Exchange Visitor Information Service (SEVIS). These data cover all foreign students in the United States, expanding coverage to include students in primary and secondary schools, students' dependents (whose spending is included in education-related travel), and vocational students, all of whom are outside the OD report's coverage. They also allow BEA to exclude former students performing post-completion Optional Practical Training, a program that allows them to remain in the United States on their educational visas after graduation and work in their fields of training. These former students were included in data from the OD report, but they fall outside the scope of education-related travel. The net effect of these coverage improvements is slightly higher student counts in all years (1999–2019).

For imports, BEA continues to use counts of students enrolled in study abroad programs through U.S. schools from the OD report, but it has expanded coverage of students to include post-secondary students directly enrolled in foreign schools based on counts from the United Nations Educational, Scientific and Cultural Organization Institute of Statistics and IIE's Project Atlas database. For countries not covered by these data sources, BEA estimates the number of directly enrolled students using data from the Educational Commission for Foreign Medical Graduates, from certain Caribbean medical institutions, and from other sources. BEA's estimates of education-related travel imports do not cover primary and secondary students because of source data limitations. The net effect of these improvements in coverage is substantially higher student counts in all years.

For both exports and imports, BEA now uses SEVIS data on foreign students' expenditures in the United States to estimate average expenditures. These administrative data reflect student-reported expenditures on tuition, living expenses, spending on dependents, and other costs. For exports, the SEVIS data provide information on expenditures by students' countries of residency. For imports, average expenditures from SEVIS are adjusted for differences in general price levels between the United States and foreign countries based on data from the Penn World Table. They are also adjusted to reflect higher spending rates of U.S. students studying abroad than of the direct enrollees who make up the majority of students in the SEVIS data.

Average expenditures based on SEVIS data are slightly lower than the average expenditures underlying BEA's previously published estimates. For imports, changes to the method used to account for differences in price levels further increased the gap between estimates under the new and old methodologies. For education-related travel estimates overall (accounting for both number of students and average expenditures), revised exports are comparable to or lower than previously published estimates for recent years, while imports were revised up over the period.

**Health-related travel.** Health-related travel measures expenditures of travelers whose primary purpose for travel is health. Health-related travel is often called medical tourism. In 2019, health-related travel exports accounted for 0.5 percent of U.S. travel exports and for 0.6 percent of U.S. travel imports.

BEA's previous estimates of health-related travel exports were based on an outdated BEA study of medical treatment provided to foreign residents in the United States. Estimates of health-related travel imports were based on BEA estimates of expenditures by U.S. residents who received health care while traveling in selected countries. These methodologies were originally developed to measure medical services, the predecessor account to health-related travel, which was part of the services accounts (but not in travel) prior to the 2014 comprehensive restructuring of the ITAs.<sup>15</sup>

The definition of health-related travel closely overlaps that of medical services; in particular, both include expenditures on medical care by those travelers traveling for health purposes. Compared to medical services, however, health-related travel includes spending by such travelers on things other than medical care (such as food, lodging, and sightseeing) but it excludes spending on medical care by travelers whose primary purpose for travel is for something other than health.<sup>16</sup>

To more closely align the estimates of health-related travel with its definition and to incorporate more up-to-date data sources that cover countries more comprehensively, BEA has adopted a new methodology for estimating health-related travel. The new methodology was used to estimate both exports and imports beginning with statistics for 1999. For all countries except Canada and Mexico, the methodology uses the same basic approach—multiplying average expenditures by a count of travelers—as used for the other business travel and other personal travel subaggregate.<sup>17</sup> Likewise, the estimates are based on the same source data as that subaggregate: average health-related travel expenditures are derived from the SIAT, and a measure of the number of travelers is derived from the CBP-based traveler-count data obtained from NTTO. Data from the SIAT are used to estimate the share of traveler counts from NTTO that are health-related travel estimates for a comparison group of countries because the SIAT data do not cover travel between the United States and Canada and only covers a nonrepresentative portion of travel between the United States and Mexico.

The number of SIAT respondents that report health as their primary purpose for travel is relatively small. Consequently, the data on expenditures of such travelers are thin, particularly at the level of individual countries. To address this thinness, BEA smooths health-related travel estimates over a period of 25 quarters at the aggregate level and over longer periods to allocate expenditures across countries. For countries with relatively low levels of health-related travel trade with the United States, BEA also utilizes regional averages. Data users should recognize that, particularly at the level of trade with individual countries, the estimates are better suited for assessing the share of health-related travel in total travel or for identifying long-term trends in health-related travel than for examining period-to-period fluctuations in health-related travel.

The revised statistics of health-related travel are somewhat comparable to the previously published statistics for the earliest years revised, but they grow much more slowly each year (or, for exports, decline in earlier years). Consequently, health-related travel statistics were revised down considerably for more recent years.

**Expenditures by border, seasonal, and other short-term workers.** Expenditures by border, seasonal, and other short-term workers are estimated as a share of compensation to workers temporarily residing in the United States. Compensation to foreign professionals—a component of primary income—is estimated by multiplying the number of workers based on U.S. State Department data on visas issued to foreign professionals by an estimate of average wage rates. Beginning with statistics for 1999, BEA improved its estimate of compensation paid to foreign professionals by expanding the set of visas that are classified as applying to foreign professionals. Along with workers in specialty occupations (H–1B visa holders), the number of workers now includes intracompany transferees (L visa holders), cultural exchange workers (Q visa holders) and temporary religious workers (R visa holders). The expansion resulted in more accurate estimates of the expenditures of workers covered in this account.

**Related improvements to compensation of employees and private transfer payments.** In addition to the improvements to compensation of foreign professionals described above, improvements to BEA statistics of education-related travel exports led to revisions to primary

income and secondary income for statistics starting in 1999. Revisions in the compensation of employees component of primary income were in wages paid to foreign students while studying in the United States. Revisions in the private transfers component of secondary income were in transfers, such as scholarships, to foreign students while studying in the United States. Both of these measures are estimated as shares of education-related travel exports, with the shares based on data from IIE on foreign students' sources of funding for study in the United States, and thus reflect the revisions to education-related travel exports outlined above. In addition, BEA refined the way it identifies the types of students receiving compensation and transfers and the sources of these payments.

# Introduction of measures of implicitly priced financial services and related changes to primary income

Financial firms generate revenue not only from explicitly charging for services but also implicitly through spreads between the interest rates (or prices) that they offer on various products. With this annual update, BEA has introduced two measures of implicitly priced services—financial intermediation services indirectly measured (FISIM) and market-making services—which are measured by the margins on buying and selling financial securities. The introduction of these implicit financial services closes a gap in the ITAs.

**FISIM services.** FISIM measures the implicit service component of deposit-taking and lending activity of banks. Banks are compensated for their services by paying a lower rate on deposits than they charge on loans. In the 2020 annual update, BEA introduced estimates of trade in FISIM in the ITAs beginning with statistics for 1999. Although estimates of FISIM were included in the ITAs for the first time with this annual update, rest-of-world FISIM estimates for exports, but not imports, were already included in the BEA National Income and Product Accounts (NIPAs). The methodology developed for the ITA trade in FISIM estimates draws on some data sources used to estimate NIPA FISIM, and the ITA estimates will be used going forward as the NIPA rest-of-world estimates.<sup>18</sup>

The methodology used to estimate trade in FISIM identifies an appropriate monetary deposit rate paid, a monetary lending rate charged, and a risk-free cost of funds called the reference rate that generally falls between the two other rates. The implicit services supplied to borrowers are estimated as the balance of loans to bank customers multiplied by the difference between the monetary lending rate charged to customers and the reference rate. The implicit services supplied to depositors are estimated as the balance of deposits held by banks for customers multiplied by the difference between the reference rate and the monetary deposit rate. The FISIM reference rate is based on the 5-year Treasury rate. The monetary lending rate is a riskadjusted commercial and industrial (C&I) lending rate. Both of these rates are the same as those used in the NIPAs. The monetary deposit rate is a modified version of the deposit rate used in the NIPAs that removes savings deposits from the calculation, as such deposits are relatively uncommon in cross-border activity. The C&I lending and deposit rates are book rates calculated from the quarterly regulatory call reports banks submit to the Federal Deposit Insurance Corporation (FDIC). The trade in FISIM methodology takes banks as the primary producers of FISIM, so no FISIM is estimated unless one of the parties is a bank. Interbank activity is assumed to occur at the reference rate, so no FISIM is generated when both parties are banks. Similarly, intracompany activity is assumed to occur at the reference rate, so no FISIM is generated when the two transacting parties are related.

Exports of FISIM are generated on loans made by U.S. banks to foreign-resident customers and on deposits held by U.S. banks for foreign-resident customers. Imports of FISIM are generated on loans made by foreign-resident banks to U.S. customers and on deposits held by those banks for U.S. customers. These cross-border loan and deposit balances are estimated using the B and C forms (filed, respectively, by banks and other financial firms and by nonfinancial firms) of the Treasury International Capital (TIC) reporting system. Import estimates are further supplemented by data covering several key trading partner countries from statistical offices in the partner countries and elsewhere. These partner country data cover balances between foreign banks and their U.S. nonbank customers.

BEA's trade in FISIM methodology separately identifies FISIM generated from repurchase agreements and applies a separate set of interest rates based on the Federal Reserve's Secured Overnight Financing Rate. Repurchase agreements are generally of a shorter term than traditional bank loans and deposits, so a more relevant set of short-term interest rates is applied.

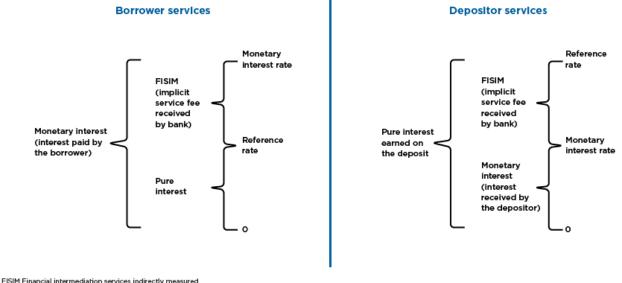
FISIM is presented in ITA table 3.1 as a separate component of financial services. A subaggregate consisting of the other components of financial services is published as "explicitly charged and other financial services."

**FISIM-related changes to primary income.** BEA's methodology for estimating other investment interest income receipts and payments on loans and deposits was changed by replacing the monetary interest rates formerly used with the reference interest rates that are now used to estimate FISIM. For transactions covered by the FISIM methodology, when loans or deposits between banks and their nonbank customers generate exports or imports of FISIM, or for transactions not covered by the FISIM methodology because the parties are both banks or are related, the appropriate rate to use to estimate interest income is the reference rate. Interest computed using the reference rate is pure interest. Interest computed using the monetary interest.

These concepts are illustrated in chart 2. Monetary interest paid by a nonbank customer on a bank loan is composed of FISIM and pure interest (left panel on "Borrower services" in chart 2). Conversely, pure interest earned by a nonbank customer on a bank deposit is composed of FISIM and monetary interest (right panel on "Depositor services"). Previously, BEA estimates of other investment interest income on loans and on deposits only measured monetary interest. To align BEA estimates of income with the new estimates of FISIM, BEA introduced a methodology to use pure interest for these estimates of other investment interest income.

Beginning with statistics for 1999, BEA replaced the monetary interest rates formerly used in the income methodology with monetary loan and deposit rates used in the FISIM estimates, which are based on interest paid and received by U.S. banks reported on the FDIC quarterly call reports. BEA then replaced monetary interest with pure interest for interest paid and earned by nonbank customers on bank loans and deposits in estimates of other investment interest income. To maintain information on monetary interest, other investment interest income receipts and payments before adjusting for FISIM are presented as addenda to ITA table 4.1.

#### **Chart 2. FISIM and Other Investment Interest Income**



U.S. Bureau of Economic Analysis

Some deposits and loans do not generate FISIM because they are provided by nonbank institutions. For example, securities brokers provide loans and deposit-like instruments, known as brokerage balances, to their customers. FISIM is not estimated for financial intermediation by securities brokers. The interest paid by customers to securities brokers and the interest received by customers from securities brokers is monetary interest and continues to be estimated using the monetary interest rates.

The new FISIM methodology also simplifies the estimation of FISIM and interest on foreign currency denominated deposit and loan positions by applying U.S. dollar interest rates from the NIPAs to these positions, which are reported as U.S. dollar equivalent positions. The U.S. dollar interest rates are generally higher than foreign currency rates previously applied. Foreign currency-denominated positions are quite small relative to U.S. dollar-denominated positions, and no single foreign currency dominates the reported positions.

This simplification is also used in estimating interest on foreign currency denominated shortterm securities positions because these positions are also quite small relative to U.S. dollar positions. This results in revisions to portfolio investment interest income beginning with statistics for 1999. For 1999–2019, annual portfolio investment income receipts were revised upward an average of \$187 million (2.9 percent) and annual portfolio investment income payments were revised upward an average of \$32 million (0.3 percent) as a result of this methodology change.

**Market-making services.** Like the FISIM revenues of banks, financial firms can generate revenue by taking advantage of a spread when acting as principal to complete a customer's transactions, in addition to charging explicit fees for executing security transactions (a brokerage service). Firms performing this function are known as dealers or market makers. The revenue earned performing this function can be understood as an implicit service fee for the liquidity (market-making) services by these firms. These implicit service fees were not previously recorded in the ITAs.

Beginning with statistics for 1999, BEA has for the first time included estimates of market-making services, as measured by margins on buying and selling financial securities, in its statistics on trade in financial services. Exports of market-making services are generated by dealers in the United States on transactions in debt and equity with foreign-resident counterparties. Imports are generated when foreign dealers trade with U.S-resident counterparties. BEA's methodology for estimating market-making services assumes that U.S. market makers trade in U.S. securities and foreign market makers trade in securities issued in their countries, as customers tend to seek out brokers in the location of the security to execute transactions.

For market-making services on equity securities, spreads are estimated for U.S. securities and for securities from Canada, the United Kingdom, Japan, Hong Kong, and a European composite using real-time quote data from financial markets obtained from Bloomberg. Spread data are averaged by market capitalization for a sample of the most traded equities. The spread applied to exports for 1999 to 2019 ranges from just under 0.02 percent to nearly 0.09 percent, with the higher spreads generally holding in earlier years and the lower spreads generally holding in later years. Spreads applied to imports vary by country and cover a larger range than the export spread. Spreads range from approximately 0.01 percent to 0.40 percent for 1999 to 2019. In 2019, spreads ranged from approximately 0.03 percent to 0.17 percent. For securities of countries other than those listed above, a volume-weighted average of these spreads is applied. The trends for equity spreads serves as a proxy for the trend in spreads for other traded securities.

For debt securities, spreads are assumed to be proportional to the assumed commission fees used in BEA's existing methodology for estimating brokerage services related to debt securities. Different spreads are used for U.S. Treasury bonds & notes, U.S. government agency bonds, U.S. corporate bonds, and foreign bonds; the spreads range from 0.002 percent to 0.0095 percent. As is generally the case for equity spreads, higher spreads are applied to imports than to exports.

Transactions volumes for both cross-border debt and equity transactions to which these spreads are applied come from TIC S data ("Purchases and Sales of Long-Term Securities by Foreign-Residents"). The volume of equities and debt securities in these data serve as proxies for the level and geographic locations of margin-generating activity in all securities. The proportion of these volumes that generate margins is estimated using a comparison of the TIC data to explicit equity commissions collected on BEA surveys.

# Improved methodology for general government interest income payments to include income from inflation adjustments associated with Treasury Inflation Protected Securities (TIPS)

A TIPS is a marketable security in which principal is adjusted to reflect changes in the Consumer Price Index (CPI). The principal of a TIPS increases when the CPI increases, and it decreases when the CPI decreases. This change in principal is called inflation compensation. The income gains or losses accrued from the inflation compensation over the term of a TIPS are payable when it matures. International statistical guidelines recommend that income gains or losses accrued from the inflation compensation on inflation-indexed securities be included in estimates of portfolio investment income in the quarter they happen (rather than when they are paid).

Beginning with statistics for 1999, BEA includes inflation compensation gains and losses accruing to foreign holders of U.S. TIPS in portfolio investment interest income payments in the quarter they happen. Previously, these gains and losses were not included in portfolio investment interest income payments.

A TIPS also pays interest based on a coupon rate, like other U.S. Treasury bonds. The coupon interest payments on TIPS have been included in portfolio investment interest income payments by the general government since TIPS were introduced. In the 2020 annual update, the inflation compensation is now also included in the same category. The inclusion of TIPS income resulted in an upward revision to government interest income payments.

### Reclassification of investment grants from secondary income to the capital account

Beginning with statistics for 1999, BEA has reclassified investment grants from secondary income in the current account to the capital account. Previously, all U.S. government grants to nonresidents were included in the secondary income account as current transfers. However, some of these are investment grants that, according to international statistical guidelines, should be classified in the capital account. Recent BEA research into the details of a number of U.S. government grant programs identified several that are partly or wholly capital investment in nature. This reclassification includes (1) investment grants in cash that are for purposes of gross fixed capital formation and are often tied to specific investment projects, such as large construction projects, and (2) investment grants in kind, which consist of transfers of transport equipment, machinery, military weapons and equipment, and other equipment by governments to nonresident entities. Reclassification of the two investment grant types resulted in an average upward revision to capital account payments of \$6.1 billion per year for the years 1999–2019.

### *New subcategory detail and other improvements to secondary income (current transfers)*

**New subcategory detail.** With this annual update, BEA expanded ITA table 5.1 to include new subcategory detail for both receipts and payments of secondary income (current transfers). These changes introduce more symmetry in the presentation of receipts and payments and bring the presentation of secondary income statistics into close alignment with the presentation recommended in international guidelines. For example, in the new presentation, secondary income receipts include general government transfer receipts (previously named U.S. government transfers) along with four subcomponents: (1) taxes on income, wealth, and such; (2) international cooperation; (3) fines and penalties; and (4) other general government receipts. Table D compares the new structure of table 5.1 to the old structure.

Table D. New Presentation of U.S. International Transactions in Secondary Income, ITA Table 5.1
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Previous structure of table 5.1	New structure of table 5.1
Secondary income (current transfer) receipts	Secondary income (current transfer) receipts
U.S. government transfers	General government transfer receipts
	Taxes on income, wealth, etc.
	International cooperation
	Fines and penalties
	Other general government transfer receipts
Private transfers	Private transfer receipts
	Insurance-related transfers
	Fines and penalties
	Other private transfer receipts
Secondary income (current transfer) payments	Secondary income (current transfer) payments
U.S. government transfers	General government transfer payments
U.S. government pensions and other transfers	Social benefits
U.S. government grants	International cooperation
	Contributions to international organizations
	Other general government transfer payments
Private transfers	Private transfer payments
Personal transfers	Personal transfers
	Insurance-related transfers
	Taxes on income, wealth, etc.
	Fines and penalties
	Charitable donations
	Transfers to foreign students
Other current transfers	Other private transfer payments
Balance on secondary income	Balance on secondary income

**Improvements to methodology for personal transfers.** Personal transfers payments cover transfers from foreign-born U.S. residents (in households) to households abroad. BEA has refined the methodology used to estimate these payments beginning with statistics for 2009. These methodological refinements follow refinements in 2012 and 2005.<sup>19</sup> Broadly, BEA has long estimated personal transfers payments by applying rates of transferring as a share of income to income estimates of the foreign-born portion of the U.S. population. Different rates of transferring are assigned to individuals in households depending on demographics and other characteristics.

Starting with the 2005 refinements, and continuing through the 2020 refinements, data on income and demographic characteristics of the foreign-born portion of the population have been drawn from the Census Bureau's American Community Survey (ACS). The 2012 refinement modified how transfer rates were calculated. It used an econometric model to derive transfer rates from relationships observed in data collected on a one-time migration supplement to the August 2008 Current Population Survey (CPS), which was released by the Census Bureau jointly with the Bureau of Labor Statistics. The model allowed transfer rates to vary by the birth country of the foreign-born individual, by marital status and living arrangements (with or without roommates), and by the elapsed time since immigration to the United States.

The econometric model used to estimate transfer rates has been modified in the 2020 refinement. While it continues to use data from the August 2008 CPS migration supplement, it improves income imputation for multifamily households and for individuals, utilizes more granular family income imputations, provides more focused treatment of top-coding and zero transfers in the CPS household-level data, and introduces new explanatory variables to reflect changes in recipient-country economic conditions.

Several of these modifications improve income inputs used in the econometric model. Complexities with the treatment of income arise because on the August 2008 CPS, income data were collected not for individuals but for a single family in each surveyed household and because that family income was reported as a range, not as a value. The 2020 refinement incorporates a regression-based method for distributing income values across a given income range to each family falling into that range. Previously, the midpoint value of the income range had been imputed to each of these families. Once an imputed value of family income is available, in order to calculate model coefficients, income must be imputed to individuals in the household. That is, family income must be allocated to individuals in the family that reports income, and individual income must be estimated for individuals outside that family. The 2020 refinement replaces the ACS with the March 2008 CPS as the primary data source used to inform the allocation of income to individuals in the family that reports income. It also corrects the inadvertent omission of income imputations for individuals outside that family.

Other refinements in 2020 improve the econometric model itself. Many households in the August 2008 CPS migration supplement reported zero personal transfers. In addition, in this dataset, very large transfers were topcoded. The model has been refined to incorporate a first-stage estimation procedure that explicitly accounts for the zeros and the topcoded transfer values. The model was also refined to improve the way it accounts for elapsed time since immigration to the United States and for the country of birth of the foreign-born individual. In accounting for country of birth, the model previously calculated effects that were fixed based on 2008 relationships. The model now allows the effect of country of birth on transfer rates to vary over time based on country income (measured by World Bank data on recipient country gross national income per capita purchasing power parity) and country governance (measured by data from the World Governance Indicators).

With the 2012 refinement, estimates were revised beginning with 2009. The transfer rates from the econometric model were adjusted, or "benchmarked," to align the (implicit) estimate for 2008 with the previously published estimate. The benchmarking of the rates was designed to counterbalance underreporting of personal transfers in the August 2008 CPS migration supplement. With the 2020 refinement, benchmarking to previously published 2008 estimates continues. The benchmarking factor has increased with this refinement, however, primarily reflecting imputations that increased total household income in the econometric model.

The estimates of personal transfers payments generated with this refined methodology closely track the previously published statistics. Revisions are slightly larger in the most recent years; these revisions reflect the combined effect of the refinements to the methodology and the incorporation of newly available ACS and other source data.

**First-time data for foreign gifts to U.S. universities.** BEA improved its statistics of secondary income receipts by including, in other general government transfer receipts and in other private transfers receipts, foreign gifts to U.S. institutions of higher learning that were previously captured in its statistics. Federal law requires most 2- and 4-year postsecondary schools (whether or not they are eligible to participate in Federal Student Aid programs) to report ownership or control by foreign sources and contracts with, or gifts from, the same foreign source to the U.S. Department of Education (DOE). BEA now uses the Foreign Gift and Contract Report compiled by DOE to estimate these gifts beginning with statistics for 2013.

### Improved coverage of transfer agreements related to sports players in the capital account

According to international statistical guidelines, a transaction involving an entitlement to future goods and services on an exclusive basis represents an asset to the holder of the entitlement and should be recorded in the capital account of the balance of payments.<sup>20</sup> An example of this type of transaction is the transfer fee paid by one sporting franchise to another for the transfer of a

player. In this case, the fee represents the purchase (or sale) of an asset representing the athlete's exclusive right to work. When such transactions have been widely reported in press reports, BEA has included payments by U.S. sports franchises for rights related to athletes formerly under contract by foreign sports franchises in the capital account. BEA has now identified new publicly available sources to better measure additional payments for these rights as well as receipts, in which a foreign sports franchise pays a U.S. sports franchise for rights related to an athlete. In addition, certain similar transactions involving entitlements to exclusive rights to work have been reclassified to the capital account from the services account. Beginning with statistics for 1999, BEA now uses these data sources to record sports player transfer fees in the capital account.

### **Financial Account**

# Reclassification and new identification of certain U.S. government capital subscriptions or other contributions to international organizations

Some U.S. government capital subscriptions in, or contributions to, international organizations other than the International Monetary Fund give rise to a type of equity that is not in the form of securities. International guidelines recommend that such transactions and positions be classified as other equity.

BEA has reclassified these transactions from loan assets to a new category "other equity assets" in the other investment assets functional category in the ITAs financial account.<sup>21</sup> The reclassification begins with statistics for 1999.

BEA has also introduced newly identified U.S. government transactions in other equity assets and loan assets. As a result, transactions in other equity assets are revised beginning with statistics for 2001, and transactions in loan assets are revised beginning with statistics for 2012.

The new category "other equity" was added to ITA tables 1.2, 1.3, the new table 1.4, table 8.1 (including a new category under general government assets), and ITA table 9.1.

### **Other Changes in Presentation**

This box identifies changes adopted for the 2020 annual update in the presentation of ITA statistics that are not discussed in the main text of the article. Except where noted, changes were implemented beginning with statistics for 1999.

#### Introduction of new standard ITA tables

With the June 2020 release of the ITAs, BEA added two new standard tables, tables 1.4 and 1.5, that, respectively, present (1) geographic detail by type of transaction and (2) annual trade in goods and services with expanded country and geographic area detail.

The new ITA table 1.4 presents statistics for all published countries or areas for a given type of transaction, for 2003 to present. For example, trade in goods for a given commodity in this table is shown with trading partners and geographic areas as rows and annual and quarterly time periods as columns. This presentation is complementary to the presentation of the same statistics in ITA table 1.3, which presents statistics for transaction types for an individual country or geographic area. Every data value in ITA table 1.3 can be obtained in ITA table 1.4, and vice versa.

Table 1.5 presents annual trade in goods and services with expanded country and geographic area detail. Previously, BEA published its most detailed country and geographic area statistics on trade in goods and trade in services in three separate tables: ITA table 2.3, ITA table 3.3, and international services table 2.3. ITA table 1.5 includes exports, imports, and balance for both goods and services by country and by major subcategory. This table allows users to

easily view total trade by detailed country and geographic area and gives users an earlier look at preliminary annual statistics for services trade by detailed partner country. The new table also allows BEA to include statistics for more countries in the BEA International Trade and Investment Country Facts application.

### Changes to standard table presentations for the ITAs

In this annual update, BEA made several improvements to the standard table presentations of the ITAs.<sup>1</sup>

**Consistency in country and geographic presentations.** BEA restructured ITA tables 1.3, 2.2, 2.3, 3.2, and 3.3 to present nongeographic country groupings as addenda items and to increase consistency across all data products. Likewise, new tables 1.4 and 1.5 reflect this new structure. In numerous data products, BEA previously presented detailed statistics by country and by geographic area, including some country groupings that are not strictly geographic in nature (for example, the European Union). The ITA publication tables also included some of these nongeographic country groupings within the primary geographic hierarchy, while other products include them as addenda items. This is no longer the case.

**Discontinuation of the Organization of the Petroleum Exporting Countries (OPEC) grouping.** BEA has discontinued production of statistics on U.S. transactions with OPEC in the ITAs with the 2020 update. Specifically, OPEC is no longer an available country grouping in ITA tables 1.3, 2.2, 2.3, 3.2, and 3.3 and is not included in new tables 1.4 and 1.5. BEA has produced statistics on transactions with members of OPEC since the 1970s, but the evolution of the international energy market and the fluctuations in OPEC membership have rendered these statistics less useful than in the past. The frequently shifting composition of OPEC can make underlying economic activity difficult to interpret from the OPEC-related time series.

BEA continues to publish statistics for transactions with Venezuela in ITA tables 1.3 and 1.4. Seasonally adjusted goods transactions with Saudi Arabia are also published in tables 2.2 and 3.2 as well as not-seasonally adjusted goods transactions with selected other individual members of OPEC in ITA table 2.3. Annual statistics on goods and services transactions with several individual members are also published in new ITA table 1.5. Statistics on services transactions with several individual OPEC members are newly included in ITA table 3.3 (not seasonally adjusted) and continue to be included in the BEA annual international services tables and in supplemental material on direct investment by country and by area.

**Replacement of Roman numerals with numbers.** As part of a general change in BEA presentation guidelines, ITA tables now use numbers instead of Roman numerals to refer to quarters (for example, "Q3" instead of "III"). This change universally affects all international tables with quarterly statistics. While this change is relatively minor from a presentation standpoint, data users who pull statistics from BEA tables by keying off the Roman numerals should ensure their programs accommodate this change.

**Short-form country names.** ITA tables now use short-form country names except in cases in which the long-form name is more commonly used, such as Dominican Republic and Czech Republic. The only revision resulting from this policy is changing "Korea, Republic of" to "South Korea." This naming convention is consistent with presentations by other government agencies.

**Global total column.** A global total column has been added to ITA table 1.3 and to the new table 1.4. Previously, users of the ITAs could only compare geographic subtotals to the global total by referring to ITA table 1.2.

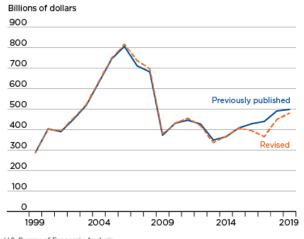
<sup>1.</sup> Several of the elements outlined below affect other BEA statistical products as well. The current standard presentations for the IIP accounts, direct investment by country and industry, activities of multinational enterprises statistics, and international services statistics, will all be updated in 2020 to reflect these presentational changes. Note that trade with members of OPEC will continue to be included in selected tables in the U.S. International Trade in Goods and Services release, which is a joint release between BEA and the U.S. Census Bureau.

### **Effects of the Revisions**

### **Current-account highlights**

Current-account statistics were updated to incorporate newly available and revised source data for 1999–2019, as well as updated seasonal factors, which only affected quarterly statistics. For 1999-2019, the revisions incorporated in this annual update only slightly altered the overall picture of current-account transactions. In most years, revisions to the current-account deficit did not alter its direction of change. However, increases in the deficit in 2016 and 2017 in the previously published statistics became decreases in the revised statistics. The current-account deficit was revised down slightly for 1999 and 2000, and it was revised up for 2001-2011. Starting in 2012, the deficit was revised down for every year except 2014. The largest downward revisions in the deficit were for 2016–2018. The largest upward revisions were for 2006–2008 (table E, chart 3).

#### Chart 3. Current-Account Deficit, 1999-2019



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# Table E. Revisions to Current-Account and Capital-Account Balances, Net Lending or Borrowing From Financial-<br/>Account Transactions, and the Statistical Discrepancy, 1999–2019—Continues

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Balance on current account (line 109):	1///	2000	2001	2002	2003	2001	2003	2000	2007	2000
Revised	-286.6	-401.9	-394.1	-456.1	-522.3	-635.9	-749.2	-816.6	-736.6	-696.5
Previously published	-288.4	-403.5	-389.7	-450.8	-518.7	-631.6	-745.2	-806.0	-711.0	-681.4
Amount of revision	1.8	1.5	-4.4	-5.3	-3.5	-4.3	-4.0	-10.7	-25.5	-15.1
Balance on goods and services (line 110):										
Revised	-255.8	-369.7	-360.4	-420.7	-496.2	-610.8	-716.5	-763.5	-711.0	-712.4
Previously published	-258.6	-372.5	-361.5	-419.0	-493.9	-609.9	-714.2	-761.7	-705.4	-708.7
Amount of revision	2.8	2.8	1.1	-1.7	-2.4	-1.0	-2.3	-1.8	-5.6	-3.6
Balance on goods (line 111):										
Revised	-337.1	-446.8	-422.4	-475.2	-541.6	-664.8	-782.8	-837.3	-821.2	-832.5
Previously published	-337.1	-446.8	-422.4	-475.2	-541.6	-664.8	-782.8	-837.3	-821.2	-832.5
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Balance on services (line 112):										
Revised	81.3	77.1	62.0	54.6	45.4	53.9	66.3	73.8	110.2	120.1
Previously published	78.5	74.3	60.9	56.3	47.8	54.9	68.6	75.6	115.8	123.8
Amount of revision	2.8	2.8	1.1	-1.7	-2.4	-1.0	-2.3	-1.8	-5.6	-3.6
Balance on primary income (line 113):										
Revised	10.0	14.6	23.2	17.5	29.3	46.6	44.2	16.0	64.4	112.0
Previously published	11.1	18.1	27.5	22.7	34.7	53.9	53.9	26.9	85.0	129.6
Amount of revision	-1.2	-3.4	-4.3	-5.2	-5.5	-7.3	-9.7	-10.9	-20.6	-17.6
Balance on secondary income (line 114):										
Revised	-40.8	-46.9	-57.0	-52.9	-55.3	-71.6	-76.9	-69.1	-89.9	-96.2
Previously published	-40.9	-49.0	-55.7	-54.5	-59.6	-75.6	-84.9	-71.1	-90.7	-102.3
Amount of revision	0.1	2.1	-1.2	1.6	4.3	4.0	8.0	2.1	0.8	6.1
Balance on capital account (line 115):										
Revised	-6.4	-4.2	12.2	-3.8	-8.5	-4.3	1.0	-7.4	-6.1	-0.2
Previously published	-4.2	0.0	13.2	-0.1	-1.8	3.0	13.1	-1.8	0.4	6.0
Amount of revision	-2.3	-4.2	-1.0	-3.7	-6.7	-7.4	-12.2	-5.7	-6.4	-6.2
Net lending (+) or net borrowing (-) from financial-										
account transactions (line 117):		.=								
Revised	-238.6	-478.4	-402.0	-502.7	-540.6	-542.2	-714.1	-825.6	-632.8	-747.1
Previously published	-238.6	-478.4	-402.0	-502.7	-540.6	-542.2	-714.1	-825.6	-632.9	-747.1
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Statistical discrepancy (line 108):				40 <b>-</b>	0.5	00.5			100 5	=
Revised	54.4	-72.3	-20.1	-42.7	-9.8	98.0	34.2	-1.5	109.8	-50.4
Previously published	53.9	-74.9	-25.5	-51.7	-20.0	86.3	18.0	-17.8	77.8	-71.7
Amount of revision	0.5	2.7	5.4	9.0	10.3	11.7	16.2	16.4	32.0	21.3

[Billions of dollars]

## Table E. Revisions to Current-Account and Capital-Account Balances, Net Lending or Borrowing From Financial-<br/>Account Transactions, and the Statistical Discrepancy, 1999–2019—Table Ends

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Balance on current account (line 109):											
Revised	-379.7	-432.0	-455.3	-418.1	-336.9	-367.8	-407.4	-394.9	-365.3	-449.7	-480.2
Previously published	-372.5	-431.3	-445.7	-426.8	-348.8	-365.2	-407.8	-428.3	-439.6	-491.0	-498.4
Amount of revision	-7.2	-0.7	-9.6	8.7	11.9	-2.6	0.4	33.5	74.4	41.3	18.1
Balance on goods and services (line 110):											
Revised	-394.8	-503.1	-554.5	-525.9	-446.8	-484.1	-491.3	-481.2	-513.8	-579.9	-576.9
Previously published	-383.8	-495.2	-549.7	-537.4	-461.1	-489.6	-498.5	-503.0	-550.1	-627.7	-616.4
Amount of revision	-11.0	-7.9	-4.8	11.5	14.3	5.4	7.3	21.8	36.3	47.7	39.6
Balance on goods (line 111):											
Revised	-509.7	-648.7	-741.0	-741.1	-700.5	-749.9	-761.9	-749.8	-799.3	-880.3	-864.3
Previously published	-509.7	-648.7	-741.0	-741.1	-700.5	-749.9	-761.9	-749.8	-805.2	-887.3	-866.2
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.9	7.0	1.9
Balance on services (line 112):											
Revised	114.9	145.6	186.5	215.2	253.7	265.8	270.6	268.6	285.6	300.4	287.5
Previously published	125.9	153.4	191.3	203.7	239.4	260.3	263.3	246.8	255.1	259.7	249.8
Amount of revision	-11.0	-7.9	-4.8	11.5	14.3	5.4	7.3	21.8	30.5	40.7	37.6
Balance on primary income (line 113):											
Revised	115.5	169.9	202.4	197.9	195.5	200.3	185.4	197.0	257.8	251.2	236.3
Previously published	115.2	168.2	211.1	207.5	206.0	218.4	203.6	198.7	225.8	254.0	257.0
Amount of revision	0.4	1.7	-8.7	-9.5	-10.5	-18.1	-18.2	-1.6	32.0	-2.8	-20.7
Balance on secondary income (line 114):											
Revised	-100.5	-98.8	-103.2	-90.1	-85.5	-84.0	-101.5	-110.7	-109.3	-120.9	-139.7
Previously published	-103.9	-104.3	-107.0	-96.9	-93.6	-94.0	-112.8	-124.0	-115.3	-117.3	-138.9
Amount of revision	3.4	5.4	3.8	6.8	8.1	10.0	11.4	13.3	6.1	-3.6	-0.8
Balance on capital account (line 115):											
Revised	-5.9	-6.9	-9.0	0.9	-6.6	-6.5	-7.9	-6.6	12.4	-4.2	-6.2
Previously published	-0.1	-0.2	-1.2	6.9	-0.4	0.0	0.0	-0.2	19.0	3.2	0.0
Amount of revision	-5.7	-6.7	-7.8	-6.0	-6.1	-6.5	-7.9	-6.5	-6.6	-7.4	-6.2
Net lending (+) or net borrowing (–) from financial-account transactions (line 117):											
Revised	-239.4	-446.4	-526.0	-448.0	-400.1	-297.1	-333.1	-363.6	-334.1	-419.7	-395.5
Previously published	-239.4	-446.4	-526.0	-448.2	-400.3	-297.3	-325.9	-382.0	-357.6	-445.5	-395.9
Amount of revision	0.0	0.0	0.0	0.2	0.2	0.2	-7.2	18.4	23.5	25.8	0.4
Statistical discrepancy (line 108):											
Revised	146.2	-7.5	-61.7	-30.8	-56.7	77.3	82.2	37.8	18.8	34.2	90.9
Previously published	133.3	-15.0	-79.2	-28.3	-51.0	68.0	81.9	46.5	63.1	42.3	102.5
Amount of revision	13.0	7.5	17.5	-2.6	-5.6	9.3	0.3	-8.6	-44.3	-8.1	-11.5

[Billions of dollars]

(\*) Between zero and +/- 50,000,000

**Goods.** Revisions of exports and imports of goods for 2017–2019 were small; no revisions were greater than +/- \$4.5 billion. Trade in goods statistics were not revised prior to 2017 (table F).

**Services.** Exports and imports of services were revised for 1999–2019. Services exports were revised up for every year. The upward revisions mainly reflect the incorporation of FISIM and market-making services into financial services; FISIM averaged \$9.3 billion and market-marking services averaged \$1.5 billion over the period. Downward revisions to travel, primarily resulting from methodological improvements, largely offset the upward revisions in financial services. The downward revisions to travel averaged \$9.5 billion over the period. Revisions in transport, due primarily to methodological and source data improvements, contributed to the upward revisions through 2015 but were mostly downward for more recent years. For 2006–2019, improvements to the universe estimation methodology for services that are based on BEA surveys also contributed to the upward revisions to exports. The incorporation of results from the 2017 BE-120 Benchmark Survey of Selected Services and Intellectual Property Transactions with Foreign Persons also contributed to the upward revision for 2016–2017.

Services imports were revised up for 1999–2017 and were revised down in 2018 and 2019. The upward revisions resulted mainly from the incorporation of FISIM and market-making services into financial services; FISIM averaged \$8.0 billion and market-making services averaged \$0.3 billion over the period. Downward revisions to travel, primarily resulting from methodological

improvements, partly offset the upward revisions to financial services through 2013 and more than offset those upward revisions for 2014–2019. The downward revisions to travel averaged \$6.8 billion over the period. Revisions in transport, due primarily to methodological and source data improvements, contributed to the upward revisions through 2015 but were downward for more recent years. For 2006–2019, improvements to the universe estimation methodology for services based on BEA surveys and the incorporation of the 2017 BE-120 Benchmark Survey of Selected Services and Intellectual Property Transactions with Foreign Persons affected revisions. Improvements to the universe estimation methodology resulted in downward contributions to the overall services revisions for 2006–2009 and 2011 and in upward contributions for 2010 and 2012–2019.

		[20.10	of dollars	1						
	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
xports of goods and services and income receipts										
Revised	1,313.4	1,486.1	1,368.1	1,345.5	1,437.1	1,661.1	1,893.2	2,204.2	2,547.9	2,754.
Previously published	1,303.6	1,469.6	1,344.2	1,318.3	1,407.0	1,638.0	1,885.8	2,209.2	2,559.3	2,742.
Amount of revision	9.9	16.5	23.9	27.2	30.1	23.2	7.3	-4.9	-11.4	12.
Exports of goods										
Revised	698.5	784.9	731.3	698.0	730.4	823.6	913.0	1,040.9	1,165.2	1,308
Previously published	698.5	784.9	731.3	698.0	730.4	823.6	913.0	1040.9	1165.2	1308
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0
Exports of services										
Revised	278.0	298.0	284.0	288.1	297.7	344.5	378.5	423.1	495.7	540
Previously published	271.3	290.4	274.3	280.7	290.0	338.0	373.0	416.7	488.4	532
Amount of revision	6.7	7.6	9.7	7.4	7.8	6.6	5.5	6.3	7.3	8
Reclassification to capital-account receipts	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	
Improved estimation methods and newly	6.7	7.6	9.7	7.4	7.8	6.6	5.5	6.4	7.3	8
available and revised source data	0.7	7.0	9.7	7.4	7.0	0.0	5.5	0.4	7.5	
Manufacturing services on physical inputs owned by others (new major category)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n
Maintenance and repair services n.i.e.										
Revised	3.7	4.4	5.2	5.4	5.1	5.2	6.7	7.1	8.9	
Previously published	4.1	5.0	5.9	6.0	5.7	5.7	7.6	8.2	10.0	1
Amount of revision	-0.4	-0.6	-0.7	-0.7	-0.6	-0.5	-1.0	-1.1	-1.1	_
Reclassification of installation services to										
other business services	-0.4	-0.6	-0.7	-0.7	-0.6	-0.5	-1.0	-1.1	-1.0	-
Improved universe estimation method and newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	-0.1	-
Transport										
Revised	46.3	49.5	46.0	46.0	46.7	54.4	58.4	64.0	70.8	78
Previously published	43.2	45.8	41.7	41.9	41.4	47.7	52.6	57.5	65.8	7.
Amount of revision	3.1	3.7	4.2	4.0	5.3	6.7	5.8	6.6	5.0	
Improved method for estimating air passenger transport	0.6	1.2	1.9	1.5	2.7	3.6	2.7	3.2	2.7	
Improved estimation methods and newly available and revised source data for estimating sea freight and port services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	_
Newly available and revised source data for air freight and port services and incorporation of backcasting methods for	2.5	2.5	2.4	2.5	2.5	3.1	3.1	3.3	2.3	
estimating air port services										
Travel (for all purposes including education)										ł
Revised	89.1	96.9	86.4	79.6	77.0	85.6	93.4	96.1	106.9	11
Previously published	92.3	100.2	86.7	81.9	80.3	92.4	101.5	105.1	119.0	13
Amount of revision	-3.2	-3.3	-0.3	-2.2	-3.3	-6.7	-8.0	-9.0	-12.1	-1
Improved estimation methods	-3.2	-3.3	-0.3	-2.2	-3.3	-6.7	-8.0	-9.0	-12.1	-1
Construction										1
Revised	4.0	2.0	2.6	3.1	2.4	2.3	1.5	1.9	2.8	
Previously published <sup>1</sup>										
Amount of revision	4.0	2.0	2.6	3.1	2.4	2.3	1.5	1.9	2.8	
Reclassification from other business services	4.0	2.0	2.6	3.1	2.4	2.3	1.5	1.9	2.7	
Improved universe estimation method and newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	
Insurance services										
Revised	3.1	3.6	3.4	4.4	6.0	7.3	7.6	9.4	10.9	1
Previously published	3.1	3.6	3.4	4.4	6.0	7.3	7.6	9.4	10.9	1
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	

## Table F. Sources of Revisions for Current- and Capital-Account Transactions, 1999–2019—Continues [Billions of dollars]

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Improved universe estimation method and newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	0.
Financial services										
Revised	26.0	29.2	27.5	29.9	33.5	42.8	47.4	56.5	74.0	79.
Previously published	19.4	22.1	21.9	24.5	27.8	36.4	39.9	47.9	61.4	63.
Amount of revision Introduction of FISIM	6.6 5.7	7.1 5.8	5.6 4.8	5.4 4.5	5.7 4.6	6.4 5.0	7.5 6.0	8.6 7.3	12.6 8.3	16. 7.
Introduction of FISIM Introduction of market-making services	0.9	5.8	4.8 0.8	4.5 0.9	4.6 1.1	5.0 1.4	6.0 1.5	7.3 2.1	8.3 2.6	7.
Improved universe estimation method and	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.8	1.7	6.
newly available and revised source data Charges for the use of intellectual property	010	0.0	0.0	0.0	0.0	0.0	0.0	0.0		0
n.i.e.										
Revised	39.9	43.5	41.0	44.8	47.3	56.9	64.5	71.0	84.5	89
Previously published	47.7	51.8	49.5	53.9	56.8	67.1	74.4	83.5	97.8	102
Amount of revision	-7.8	-8.3	-8.5	-9.0	-9.5	-10.2	-10.0	-12.6	-13.3	-12
Reclassification to capital-account receipts Reclassification to telecommunications, computer, and information services	(*) (*)	(*) (*)	(*) (*)	(*) (*)	(*) (*)	(*) (*)	(*) -0.1	(*) -0.1	(*) -0.1	( -0
Reclassifications to other business services and to personal, cultural, and recreational services <sup>2</sup>	-7.8	-8.3	-8.4	-9.0	-9.5	-10.1	-9.9	-12.5	-14.0	-13
Improved universe estimation method and newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	0.8	1
Telecommunications, computer, and information services										
Revised	12.3	12.3	12.9	12.5	14.1	15.0	15.6	17.2	20.3	23
Previously published	12.3	12.2	12.8	12.5	14.1	15.0	15.5	17.2	20.2	23
Amount of revision	(*)	(*)	(*)	(*)	(*)	(*)	0.1	0.1	0.1	C
Reclassification from charges for the use of intellectual property n.i.e.	(*)	(*)	(*)	(*)	(*)	(*)	0.1	0.1	0.1	(
Improved universe estimation method and newly available and revised source data Other business services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	0.1	(
Revised	36.4	38.2	41.3	44.6	46.2	51.6	56.8	66.0	79.4	90
Previously published	41.0	40.5	44.1	48.0	48.8	54.4	58.3	68.6	82.4	92
Amount of revision	-4.6	-2.3	-2.9	-3.4	-2.6	-2.8	-1.5	-2.6	-3.0	-2
Reclassification from maintenance and repair services n.i.e.	0.4	0.6	0.7	0.7	0.6	0.5	1.0	1.1	1.0	
Reclassification to construction	-4.0	-2.0	-2.6	-3.1	-2.4	-2.3	-1.5	-1.9	-2.7	-3
Reclassification to personal, cultural, and recreational services and reclassification from charges for the use of intellectual property n.i.e. <sup>2</sup>	-1.2	-1.1	-1.2	-1.1	-1.1	-1.3	-1.2	-2.0	-2.1	-2
Improved universe estimation method and newly available and revised source data Personal, cultural, and recreational services	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0.8	2
Revised	9.0	9.4	9.6	10.1	10.5	11.4	11.1	14.5	16.3	16
Previously published <sup>1</sup>				10.1	10 5			145	16.2	1/
Amount of revision Reclassifications from charges for the use of intellectual property n.i.e. and from other	9.0 9.0	9.4 9.4	9.6 9.6	10.1 10.1	10.5 10.5	11.4 11.4	11.1 11.1	14.5 14.6	16.3 16.2	10
business services <sup>2</sup> Improved universe estimation method and	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	0.1	(
newly available and revised source data Government goods and services n.i.e.										
Revised	8.2	9.2	8.2	7.7	9.0	12.0	15.6	19.2	20.9	19
Previously published	8.2	9.2	8.2	7.7	9.0	12.0	15.6	19.2	20.9	19
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	l
imary income receipts										
Revised	302.5	365.6	311.4	306.4	346.9	432.8	536.3	669.9	816.9	820
Previously published	299.1	356.7	297.0	286.5	324.4	416.1	534.2	680.8	835.0	81
Amount of revision Direct investment	3.4	8.9	14.4	19.9	22.6	16.8	2.1	-10.9	-18.0	4
Revised	135.3	156.1	133.2	149.4	188.4	250.9	291.4	321.0	371.8	41
Previously published	135.3	156.1	133.2	149.4	188.4	250.9	291.4	321.0	371.8	41
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Portfolio investment										
Revised	72.2	78.4	73.8	81.8	90.6	108.6	129.9	166.8	221.8	24
Previously published	72.2	78.4	73.9	81.9	90.7	108.6	129.7	166.1	221.6	24
Amount of revision FISIM-related changes to primary income	(*)	(*) (*)	-0.1 -0.1	-0.1 -0.1	-0.1 -0.1	(*) (*)	0.2 0.2	0.6 0.6	0.2 0.2	-
risim-related changes to primary income	(*) 0.0	(*) 0.0	-0.1 0.0	-0.1 0.0	-0.1 0.0	(*) 0.0	0.2	0.6	0.2	_
Newly available and revised source data										
Newly available and revised source data Other investment							1			×
Newly available and revised source data <b>Other investment</b> Revised	89.6	125.5	98.5	69.5	62.2	67.4	109.0	175.9	216.6	
Newly available and revised source data Other investment		125.5 116.6 8.9	98.5 84.0 14.5	69.5 49.6 20.0	62.2 39.6 22.6	67.4 50.6 16.8	109.0 107.1 1.9	175.9 187.4 -11.6	216.6 234.9 -18.3	157 157

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Improved universe estimation method	613				615			615		(1)
and newly available and revised source data	(*)	0.0	0.0	0.0	(*)	0.0	0.0	(*)	-0.1	(*)
Compensation of employees										
Revised	4.2	4.4	4.5	4.6	4.7	4.7	4.8	5.1	5.2	5.4
Previously published	4.2	4.4	4.5	4.6	4.7	4.7	4.8	5.1	5.2	5.4
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Secondary income receipts										
Revised	34.4	37.5	41.4	53.0	62.0	60.1	65.4	70.3	70.2	84.5
Previously published	34.6	37.6	41.6	53.1	62.3	60.3	65.6	70.7	70.8	85.1
Amount of revision Newly available and revised source data	-0.2 -0.2	-0.1	-0.2 -0.2	-0.1	-0.2	-0.2 -0.2	-0.2 -0.2	-0.4	-0.6 -0.6	-0.5 -0.5
Newly available and revised source data	-0.2	-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.4	-0.0	-0.5
Capital transfer receipts and other credits										
Revised	(*)	(*)	13.2	0.1	0.1	3.8	15.5	(*)	0.5	6.2
Previously published	(*)	(*)	13.2	0.1	0.1	3.8	15.5	0.0	0.5	6.2
Amount of revision Reclassifications from exports of services	(*) (*)	(*) (*)	(*) (*)	(*) (*)	(*) (*)	(*) (*)	(*) (*)	(*) (*)	(*) (*)	(*) (*)
Newly available and revised source data	(*)	(*)	0.0	(*)	(*)	(*)	(*)	(*)	(*)	0.0
		()	010	()	()	C	()	()	()	010
Imports of goods and services and income payments										
Revised	1,600.1	1,888.0	1,762.2	1,801.6	1,959.4	2,297.0	2,642.4	3,020.9	3,284.5	3,450.9
Previously published Amount of revision	1,591.9 8.1	1,873.1 14.9	1,733.9 28.3	1,769.1 32.5	1,925.8 33.6	2,269.5 27.5	2,631.1 11.3	3,015.1 5.7	3,270.4 14.1	3,423.6 27.3
Amount of revision	0.1	14.9	20.3	52.5	55.0	27.5	11.5	5.7	14.1	27.5
Imports of goods										
Revised	1,035.6	1,231.7	1,153.7	1,173.3	1,272.1	1,488.3	1,695.8	1,878.2	1,986.3	2,141.3
Previously published	1,035.6	1,231.7	1,153.7	1,173.3	1,272.1	1,488.3	1,695.8	1,878.2	1,986.3	2,141.3
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Imports of services										
Revised	196.7	220.9	222.0	233.5	252.3	290.6	312.2	349.3	385.5	420.7
Previously published	192.9	216.1	213.5	224.4	242.2	283.1	304.4	341.2	372.6	409.1
Amount of revision	3.8	4.8	8.6	9.1	10.1	7.5	7.8	8.2	12.9	11.6
Reclassification to capital-account payments	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Improved estimation methods and newly available and revised source data	3.8	4.8	8.6	9.1	10.1	7.5	7.8	8.2	12.9	11.6
Manufacturing services on physical inputs										
owned by others (new major category)	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
Maintenance and repair services n.i.e.										
Revised	1.2	2.3	1.8	2.0	2.0	2.2	2.7	4.1	4.6	5.1
Previously published Amount of revision	1.3 -0.1	2.6 -0.3	2.0 -0.2	2.2	2.2	2.4 -0.2	3.0 -0.3	4.6 -0.5	5.2 -0.6	5.7 -0.6
Reclassification of installation services to	-				-	-				
other business services	-0.1	-0.3	-0.2	-0.2	-0.2	-0.2	-0.3	-0.3	-0.3	-0.4
Improved universe estimation method and	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	-0.3	-0.3
newly available and revised source data Transport										
Revised	49.9	58.5	56.6	55.4	61.1	72.0	78.8	82.3	86.1	92.8
Previously published	49.6	57.6	53.8	51.5	57.9	69.2	75.6	78.0	79.3	84.0
Amount of revision	0.3	0.9	2.7	3.9	3.2	2.8	3.2	4.4	6.8	8.8
Improved method for estimating air	0.3	0.9	2.7	3.9	3.2	2.8	3.2	4.4	6.8	7.5
passenger transport Improved estimation methods and newly										
available and revised source data for estimating sea freight and port services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3
Newly available and revised source data for air port services	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Travel (for all purposes including education)										
Revised	58.9	64.2	60.5	59.0	61.2	70.3	74.1	78.4	82.6	84.3
Previously published Amount of revision	59.6 -0.7	65.8 -1.6	60.7 -0.2	59.9 -0.9	61.9 -0.6	74.0 -3.7	80.0 -5.9	84.2 -5.8	89.2 -6.6	92.5 -8.2
Improved estimation methods	-0.7	-1.6	-0.2	-0.9	-0.6	-3.7	-5.9	-5.8	-6.6	-8.2
Construction										
Revised	1.5	1.4	1.9	2.6	2.0	2.3	1.3	1.7	2.6	3.5
Previously published <sup>1</sup>										
Amount of revision Reclassification from other business	1.5	1.4	1.9	2.6	2.0	2.3	1.3	1.7	2.6	3.5
services	1.5	1.4	1.9	2.6	2.0	2.3	1.3	1.7	2.5	3.5
Improved universe estimation method and	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	0.1
newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	()	0.1
Insurance services		14.0	4.4 -	01.0	25.0	00.1	00 <del>-</del>	20.1	47.0	FOI
Revised Proviously published	9.4 9.4	11.3 11.3	16.7 16.7	21.9	25.2	29.1 29.1	28.7 28.7	39.4 39.4	47.2 47.5	58.4 58.9
Previously published Amount of revision	9.4	0.0	16.7	21.9 0.0	25.2 0.0	29.1	28.7	39.4	47.5	-0.5
Improved universe estimation method and										
newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.4	-0.5
Financial services										

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Revised	12.5	16.4	16.0	15.2	15.8	19.0	22.0	27.0	33.8	29.5
Previously published	8.3	10.9	10.2	9.0	8.9	11.2	12.1	14.7	19.2	17.2
Amount of revision	4.2	5.5	5.8	6.3	6.8	7.9	9.8	12.3	14.6	12.3
Introduction of FISIM	3.9	5.1	5.6	6.0	6.6	7.7	9.6	12.1	13.2	10.6
Introduction of market-making services Improved universe estimation method and	0.3	0.4	0.2	0.2	0.2	0.2	0.2	0.4	0.5	0.5
newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.2	0.8	1.2
Charges for the use of intellectual property										
n.i.e.										
Revised	12.8	16.1	16.2	19.0	18.7	22.8	24.1	23.1	24.6	27.8
Previously published Amount of revision	13.3 -0.5	16.6 -0.5	16.7 -0.5	19.5 -0.5	19.3 -0.6	23.7 -0.9	25.6 -1.5	25.0 -2.0	26.5 -1.9	29.6 -1.9
Reclassification to capital-account										
payments	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Reclassification to telecommunications, computer, and information services	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	-0.1
Reclassifications to other business services and to personal, cultural, and recreational services <sup>2</sup>	-0.4	-0.4	-0.4	-0.5	-0.6	-0.8	-1.4	-2.0	-2.0	-2.3
Improved universe estimation method and newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	0.2	0.5
Telecommunications, computer, and										
information services	44.5	111	110	10.0	110	16.4	10.4	20.0	22.5	264
Revised Previously published	14.7 13.3	14.1 12.4	14.0 12.4	13.2 11.7	14.9 13.1	16.4 14.2	18.4 16.0	20.9 19.8	23.7 22.4	26.1 24.7
Amount of revision	13.3	12.4	12.4	11.7	1.9	2.2	2.4	19.6	1.3	1.5
Reclassification from charges for the use of										
intellectual property n.i.e. Improved universe estimation method and	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	0.1
newly available and revised source data Other business services	1.3	1.7	1.6	1.5	1.8	2.1	2.4	1.0	1.2	1.4
Revised	20.0	20.3	21.2	24.0	25.7	28.0	32.1	41.4	48.5	59.7
Previously published	23.9	24.4	25.6	29.3	30.1	33.1	36.0	48.1	55.0	67.5
Amount of revision	-3.9	-4.1	-4.4	-5.2	-4.4	-5.0	-3.9	-6.8	-6.5	-7.8
Reclassification from maintenance and	0.1	0.3	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4
repair services n.i.e. Reclassification to construction	-1.5	-1.4	-1.9	-2.6	-2.0	-2.3	-1.3	-1.7	-2.5	-3.5
Reclassification to personal, cultural, and recreational services and reclassification from charges for the use of intellectual	-1.2	-1.2	-1.4	-1.2	-1.5	-1.3	-1.1	-1.8	-1.6	-2.0
property n.i.e. <sup>2</sup> Improved universe estimation method and	-1.2	-1.7	-1.3	-1.6	-1.1	-1.6	-1.7	-3.6	-2.7	-2.7
newly available and revised source data Personal, cultural, and recreational services Revised	1.7	1.6	1.8	1.7	2.0	2.2	2.6	3.8	3.7	4.4
Previously published <sup>1</sup>	1.7	1.0	1.0	1.7	2.0		2.0	5.0		т.т 
Amount of revision	1.7	1.6	1.8	1.7	2.0	2.2	2.6	3.8	3.7	4.4
Reclassifications from charges for the use of intellectual property n.i.e. and from other business services <sup>2</sup>	1.7	1.6	1.8	1.7	2.0	2.2	2.6	3.7	3.6	4.3
Improved universe estimation method and newly available and revised source data Government goods and services n.i.e.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.2
Revised	14.2	14.5	15.3	19.4	23.6	26.3	27.5	27.4	28.3	28.9
Previously published	14.2	14.5	15.3	19.4	23.6	26.3	27.5	27.4	28.3	28.9
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Primary income payments	000	0510	0.6.5.4	0000	0/	0011	100.1			
Revised Previously published	292.6 288.0	351.0 338.6	288.1	288.9 263.9	317.7 289.7	386.3	492.1 480.3	653.9	752.6	708.2 685.9
Amount of revision	288.0	338.6	269.4 18.7	263.9	289.7	362.2 24.1	480.3 11.8	653.9 (*)	750.0 2.6	685.9 22.3
Direct investment	4.0	12.3	10.7	23.0	20.0	27.1	11.0	()	2.0	22.3
Revised	57.9	62.2	19.5	49.6	83.8	110.3	131.9	163.4	142.8	147.4
Previously published	57.9	62.2	19.5	49.6	83.8	110.3	131.9	163.4	142.8	147.4
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Portfolio investment Revised	145.7	165.4	162.9	160.3	164.1	197.4	242.7	306.7	386.1	404.9
Previously published	145.7	165.4	162.9	159.8	164.1	197.4	238.6	306.7	386.1	404.9
Amount of revision	0.3	0.6	0.4	0.4	0.6	1.6	4.1	1.7	4.3	4.9
FISIM-related changes to primary income	(*)	-0.1	-0.1	-0.2	-0.2	-0.2	0.3	0.4	0.4	-0.1
Introduction of income from inflation adjustments to Treasury Inflation	0.4	0.7	0.6	0.6	0.8	1.8	3.8	1.3	3.9	5.0
Protected Securities Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other investment										1.2.4
Revised	77.5	111.5	93.2	66.2	56.5	64.0	101.1	167.3	207.6	138.6
Previously published Amount of revision	73.3 4.2	100.7 10.8	75.7 17.5	42.1 24.1	29.5 27.0	42.1 21.9	93.9 7.2	169.2 -1.9	209.7 -2.1	121.4 17.2
FISIM-related changes to primary income	4.2	10.8	17.5	24.1	27.0	21.9	7.2	-1.9	-2.1	17.2
Tional related changes to primary income	T.2	10.0	17.5	4 T.1	27.0	£1.7	1.4	1.7	2.1	1/.4

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Improved universe estimation method and newly available and revised source data	0.0	0.0	0.0	0.0	(*)	0.0	0.0	(*)	(*)	(*)
Compensation of employees										
Revised	11.5	11.9	12.5	12.8	13.4	14.5	16.4	16.6	16.1	17.2
Previously published	11.4	11.0	11.7	12.4	12.9	14.0	15.9	16.4	15.7	17.1
Amount of revision	0.1	0.9	0.8	0.5	0.4	0.6	0.5	0.2	0.4	0.2
Improvements to compensation methodology and newly available and revised source data	0.1	0.9	0.8	0.5	0.4	0.6	0.5	0.2	0.4	0.2
Secondary income payments										
Revised	75.2	84.4	98.4	106.0	117.3	131.8	142.2	139.4	160.1	180.7
Previously published	75.5	86.6	97.3	107.6	121.8	135.9	150.5	141.8	161.5	187.4
Amount of revision	0.0	-2.2	1.1	-1.6	-4.5	-4.2	-8.3	-2.4	-1.4	-6.7
Reclassification to capital-account payments	-2.3	-4.2	-1.0	-3.7	-6.7	-7.4	-12.2	-5.7	-6.4	-6.2
Methodological improvements	(*)	(*)	(*)	-0.1	-0.2	-0.1	-0.2	-0.9	-0.3	-0.4
Newly available and revised source data	2.2	2.0	2.1	2.2	2.4	3.3	4.1	4.2	5.3	-0.1
Capital transfer payments and other debits										
Revised	6.5	4.3	1.1	3.9	8.6	8.1	14.5	7.4	6.6	6.4
Previously published	4.2	(*)	(*)	0.2	1.9	0.7	2.3	1.8	0.1	0.2
Amount of revision	2.3	4.2	1.0	3.7	6.7	7.4	12.2	5.7	6.4	6.2
Reclassifications from secondary income	2.3	4.2	1.0	3.7	6.7	7.4	12.2	5.7	6.4	6.2
Reclassifications from imports of services	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Newly available and revised source data	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

# Table F. Sources of Revisions for Current- and Capital-Account Transactions, 1999–2019—Table Ends [Billions of dollars]

			Launono	of dollars	1						
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Exports of goods and services and income											
receipts	2 2 2 4 2	2 ( 07 5	2.026 7	0454.0	2.250.0	2 2 7 0 4	2.226.2	0.005.4	2542.0	2 702 0	20050
Revised	2,331.2	2,687.5	3,036.7	3,151.2	3,250.8	3,379.1	3,236.3	3,235.4	3,542.0	3,792.9	3,805.9
Previously published Amount of revision	2,283.1 48.1	2,624.0 63.5	2,981.5 55.1	3,095.0 56.2	3,213.0 37.8	3,341.8 37.3	3,207.3 29.1	3,188.5 46.9	3,444.8 97.2	3,735.7 57.2	3,763.9 42.0
Allount of revision	40.1	03.5	55.1	50.2	37.0	57.5	29.1	40.9	97.2	57.2	42.0
Exports of goods											
Revised	1,070.3	1,290.3	1,498.9	1,562.6	1,593.7	1,635.6	1,511.4	1,457.4	1,557.0	1,677.0	1,652.4
Previously published	1070.3	1290.3	1498.9	1562.6	1593.7	1635.6	1511.4	1457.4	1553.6	1674.3	1652.8
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	2.6	-0.4
Newly available and revised source											
data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	2.6	-0.4
Exports of services											
Revised	522.5	582.0	644.7	684.8	719.5	756.7	768.4	780.5	830.4	862.4	875.8
Previously published	512.7	562.8	627.1	655.7	700.5	741.1	755.3	758.4	799.0	827.0	845.2
Amount of revision	9.7	19.3	17.6	29.1	19.0	15.6	13.1	22.1	31.4	35.5	30.6
Reclassification to capital-account	(*)	(*)	(*)	(*)	(*)	(*)	-0.1	-0.1	(*)	(*)	-0.1
receipts	U	U	U	U	U	U	-0.1	-0.1	U	U	-0.1
Improved estimation methods and											1
newly available and revised source	9.7	19.3	17.6	29.1	19.1	15.7	13.1	22.2	31.5	35.5	30.7
data											
Manufacturing services on physical											
inputs owned by others (new major	n.a.										
category) Maintanance and renain services n i e											
Maintenance and repair services n.i.e. Revised	11.6	13.1	14.7	14.9	15.7	18.0	19.8	21.6	23.2	27.9	27.9
						18.0 21.1		21.6	23.2		
Previously published Amount of revision	12.9 -1.3	14.5 -1.4	16.4 -1.7	17.2 -2.2	18.6 -2.8	-3.2	23.4 -3.5	-3.5	-3.6	31.0 -3.0	32.5 -4.7
Reclassification of installation	-1.3	-1.4	-1./	-2.2	-2.8	-3.2	-3.5	-3.5	-3.0	-3.0	-4./
services to other business	-1.2	-1.4	-1.5	-2.2	-2.8	-3.3	-3.9	-3.7	-3.9	-3.4	-4.4
services	-1.2	-1.4	-1.5	-2.2	-2.0	-3.3	-3.9	-3.7	-3.9	-3.4	-4.4
Improved universe estimation											
method and newly available and	-0.1	(*)	-0.2	-0.1	-0.1	0.1	0.4	0.1	0.2	0.4	-0.2
revised source data	0.1	()	0.2	0.1	0.1	0.1	0.11	0.1	0.2	0.1.	0.2
Transport											
Revised	65.8	76.4	82.9	88.2	90.0	90.7	84.4	81.8	86.3	93.3	91.1
Previously published	62.2	71.7	79.8	83.9	86.8	90.7	87.7	84.7	88.8	92.9	91.4
Amount of revision	3.6	4.7	3.1	4.3	3.2	(*)	-3.3	-3.0	-2.5	0.4	-0.3
Improved method for estimating	0.2	0.5	(*)	1.0	1 1		4.2	27	26	0.2	0.0
air passenger transport	0.3	0.5	(*)	1.8	1.1	-1.6	-4.3	-3.7	-3.6	-0.2	-0.6
Improved estimation methods											
and newly available and revised	(*)	0.4	0.7	(*)	-0.5	-0.5	-0.8	-0.9	-0.5	-0.5	-1.3
source data for estimating sea	()	0.1	0.7	Û	0.5	0.5	0.0	0.5	0.5	0.5	1.5
freight and port services											
Newly available and revised											1
source data for air freight and	3.4	3.8	2.4	2.5	2.6	2.1	1.7	1.6	1.0	1 1	1.7
port services and incorporation of backcasting methods for	3.4	3.8	2.4	2.5	2.6	2.1	1./	1.0	1.6	1.1	1./
estimating air port services											1
Travel (for all purposes including											
education)											
Revised	110.8	130.3	142.2	153.9	171.0	180.3	192.6	192.9	193.8	196.5	193.3
Previously published	119.9	137.0	150.9	161.6	177.5	191.9	206.9	206.7	210.7	214.7	213.5
Amount of revision	-9.1	-6.7	-8.7	-7.7	-6.5	-11.7	-14.3	-13.8	-16.8	-18.2	-20.2
Improved estimation methods	-9.1	-6.7	-8.7	-7.7	-6.5	-11.7	-14.3	-13.8	-16.8	-18.2	-20.2
Construction											
Revised	4.3	3.0	3.2	3.2	2.2	2.1	2.8	1.7	2.1	2.9	3.2
Previously published <sup>1</sup>											
Amount of revision	4.3	3.0	3.2	3.2	2.2	2.1	2.8	1.7	2.1	2.9	3.2
Reclassification from other	4.0	2.8		3.2			2.5				2.9
business services	4.0	2.8	3.1	3.2	2.1	1.9	2.5	1.4	1.8	2.6	2.9
Improved universe estimation											
method and newly available and	0.2	0.1	0.1	0.1	0.1	0.2	0.2	0.3	0.3	0.4	0.3
revised source data											
Insurance services											
Revised	14.6	14.9	14.7	16.0	15.8	16.3	15.5	16.2	18.2	17.9	16.2
Previously published	14.6	14.4	15.1	16.8	16.7	17.3	16.2	16.8	18.0	17.5	18.3
Amount of revision	(*)	0.5	-0.4	-0.8	-0.9	-1.1	-0.8	-0.6	0.2	0.4	-2.0
Improved universe estimation	<b>C</b> 10	o -	~ ·	0.0	0.0			0.5	0.0	~ .	
method and newly available and	(*)	0.5	-0.4	-0.8	-0.9	-1.1	-0.8	-0.6	0.2	0.4	-2.0
revised source data											
Financial services	70.0	065	101.1	105 4	100.0	110.0	1150	114.0	120.0	100.4	105 5
Revised	73.8	86.5	101.1	105.4	109.8	119.9	115.0	114.8	128.0	132.4	135.7
Previously published	64.4	72.3	78.3	76.7	95.1	106.9	102.4	99.1	109.2	112.0	111.3
Amount of revision	9.4	14.2	22.8	28.7	14.7	13.0	12.5	15.7	18.8	20.4	24.4
Introduction of FISIM	6.6	7.2	8.8	10.0	10.4	11.6	12.7	14.0	16.2	18.7	19.4

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Introduction of market-making services	2.8	2.4	2.5	1.8	1.2	1.1	0.9	0.8	0.8	0.6	0.6
Improved universe estimation method and newly available and revised source data Charges for the use of intellectual property n.i.e.	(*)	4.5	11.5	16.9	3.1	0.2	-1.1	0.9	1.8	1.1	4.5
Revised	85.7	95.0	107.1	107.9	113.8	116.4	111.2	113.0	118.1	118.9	117.4
Previously published	98.4	107.5	123.3	124.4	128.0	129.7	124.8	124.4	126.5	128.7	128.9
Amount of revision	-12.7	-12.6	-16.3	-16.6	-14.2	-13.3	-13.6	-11.4	-8.4	-9.9	-11.5
Reclassification to capital- account receipts	(*)	(*)	(*)	(*)	(*)	(*)	-0.1	-0.1	(*)	(*)	-0.1
Reclassification to telecommunications, computer, and information services	-0.1	-0.2	-0.2	-0.5	-0.5	-0.6	-0.5	-0.7	-0.8	-0.3	-0.1
Reclassifications to other business services and to personal, cultural, and recreational services <sup>2</sup>	-14.0	-14.1	-15.9	-16.7	-16.0	-16.6	-18.0	-17.1	-18.0	-17.2	-17.6
Improved universe estimation method and newly available and revised source data	1.5	1.7	-0.1	0.6	2.3	3.9	4.9	6.4	10.5	7.7	6.2
Telecommunications, computer, and											
information services Revised	24.9	26.6	29.4	33.5	36.3	38.6	41.4	43.1	47.7	49.7	55.7
Previously published	24.9	26.6	29.4	33.5	36.5	36.0	41.4 36.6	43.1 38.2	47.7	49.7	47.8
Amount of revision	1.1	1.5	0.2	1.0	1.9	3.9	4.8	4.9	5.7	6.5	7.8
Reclassification from charges for the use of intellectual property n.i.e.	0.1	0.2	0.2	0.5	0.5	0.6	0.5	0.7	0.8	0.3	0.1
Improved universe estimation method and newly available and revised source data	1.0	1.3	(*)	0.6	1.4	3.4	4.3	4.2	4.8	6.2	7.8
Other business services					100.0	100.0		1 7 9 1			
Revised	93.5	99.6	108.4 112.6	118.5	122.2	132.2 128.9	141.4	153.1	167.3	177.3	189.4
Previously published Amount of revision	96.0 -2.5	101.0 -1.4	-4.1	120.4 -1.9	121.5 0.6	3.3	137.1 4.3	144.6 8.5	157.2 10.1	165.8 11.4	180.1 9.4
Reclassification from	2.5	1.1	1.1	1.7	0.0	5.5	1.5	0.5	10.1	11.1	5.1
maintenance and repair services n.i.e.	1.2	1.4	1.5	2.2	2.8	3.3	3.9	3.7	3.9	3.4	4.4
Reclassification to construction Reclassification to personal, cultural, and recreational services and reclassification from charges for the use of intellectual	-4.0	-2.8	-3.1 -3.5	-3.2 -3.6	-2.1	-1.9 -3.9	-2.5 -3.8	-1.4	-1.8	-2.6	-2.9
property n.i.e. <sup>2</sup> Improved universe estimation method and newly available and	3.1	3.3	0.9	2.7	3.6	5.8	6.7	10.0	12.2	14.2	11.8
revised source data Personal. cultural. and recreational											
Personal, cultural, and recreational services											l
Revised	16.9	17.6	19.5	21.1	20.9	22.6	24.2	23.6	25.7	23.8	23.4
Previously published <sup>1</sup>											
Amount of revision Reclassifications from charges for the use of intellectual property	16.9	17.6	19.5	21.1	20.9	22.6	24.2	23.6	25.7	23.8	23.4
n.i.e. and from other business services <sup>2</sup> Improved universe estimation	16.8	17.4	19.4	20.3	19.5	20.5	21.8	20.8	22.3	20.9	21.5
method and newly available and revised source data	0.2	0.2	0.1	0.8	1.3	2.1	2.4	2.8	3.4	2.9	1.9
Government goods and services n.i.e. Revised	20.5	19.2	21.5	22.1	21.9	19.7	20.1	18.8	19.9	21.9	22.6
Previously published	20.5	19.2	21.5	22.1	21.9	19.7	20.1	18.8	19.7	21.7	21.5
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.1
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.7	1.1
Primary income receipts											
Revised	653.2	723.2	791.5	791.7	811.6	845.9	825.1	857.8	997.5	1,108.5	1,135.7
Previously published	613.2	680.2	755.9	768.0	792.8	824.5	810.1	835.5	933.3	1,084.2	1,123.1
Amount of revision	40.0	43.1	35.5	23.7	18.7	21.4	15.0	22.3	64.2	24.3	12.6
Direct investment	369.2	442.0	473.6	1610	476.2	482.1	454.9	1673	561.1	F07.0	578.1
Revised Previously published	369.2	443.0 443.0	473.6 473.6	464.8 464.8	476.2 476.2	482.1 482.1	454.9 459.9	467.3 461.8	561.1 509.8	587.9 574.5	578.1
Amount of revision	0.0	443.0 0.0	473.0	404.8	470.2	402.1	-5.0	401.8 5.6	509.8	13.4	-1.9
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	-5.0	5.6	51.3	13.4	-1.9
Portfolio investment	104.4	1047	2274	260.2	270.2	204.0	212.0	226.6	255.2	410 F	426.4
Revised Previously published	184.4 184.4	194.7 194.9	237.1 237.3	260.2 260.4	278.2 278.4	304.9 305.0	312.0 312.0	326.6 326.3	355.3 354.5	412.5 411.2	426.4 427.6
Amount of revision	-0.1	-0.1	-0.3	-0.3	-0.2	-0.1	312.0 (*)	326.3	354.5	411.2	427.6
ranount of revision	0.1	0.1		-0.3	0.2	0.1	U	0.2	0.7	1.5	1.4

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
FISIM-related changes to primary income	-0.1	-0.1	-0.3	-0.3	-0.2	-0.1	(*)	0.2	0.9	2.1	1.6
Newly available and revised	0.0	0.0	0.0	0.0	0.0	0.0	(*)	(*)	(*)	-0.8	-2.9
source data Other investment							Ċ	Ċ	Ċ		
Revised	93.2	78.8	73.8	59.9	50.1	52.2	51.4	57.5	74.4	100.8	123.6
Previously published	53.1	35.7	38.0	36.0	31.2	30.7	31.3	41.0	62.6	91.2	107.8
Amount of revision	40.0	43.2	35.8	24.0	18.9	21.5	20.0	16.5	11.8	9.6	15.9
FISIM-related changes to primary income	39.9	42.7	35.6	23.2	19.8	21.4	19.9	16.7	12.1	8.6	16.1
Improved universe estimation method and newly available and revised source data <b>Compensation of employees</b>	0.2	0.4	0.2	0.7	-0.9	0.1	0.1	-0.2	-0.2	1.0	-0.3
Revised	5.7	5.9	6.1	6.3	6.6	6.5	6.6	6.3	6.3	6.7	6.7
Previously published	5.7	5.9	6.1	6.3	6.6	6.5	6.6	6.3	6.1	6.7	6.8
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	(*)	-0.1
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	(*)	-0.1
Secondary income receipts											
Revised	85.2	91.9	101.7	112.1	126.0	140.9	131.5	139.7	157.1	145.0	142.0
Previously published	86.8	90.8	99.7	108.7	126.0	140.6	130.5	137.2	159.0	150.2	142.8
Amount of revision Newly available and revised source	-1.6	1.1	2.0	3.4	(*)	0.3	1.0	2.5	-1.9	-5.2	-0.8
data	-1.6	1.1	2.0	3.4	(*)	0.3	1.0	2.5	-1.9	-5.2	-0.8
Capital transfer receipts and other credits											
Revised	(*)	(*)	(*)	7.7	(*)	(*)	0.1	0.1	19.2 19.2	3.3	0.1
Previously published Amount of revision	0.0 (*)	0.0 (*)	0.0 (*)	7.7 (*)	0.0 (*)	0.0 (*)	0.0	0.0	(*)	3.2 (*)	0.0
Reclassifications from exports of											
services Newly available and revised source data	(*) 0.0	(*) 0.0	(*) 0.0	(*) 0.0	(*) 0.0	(*) 0.0	0.1 0.0	0.1 0.0	(*) 0.0	(*) 0.0	0.1 0.0
Imports of goods and services and income	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
payments											
Revised	2,710.9	3,119.5	3,492.0	3,569.3	3,587.6	3,746.9	3,643.7	3,630.3	3,907.3	4,242.6	4,286.2
Previously published	2,655.6	3,055.3	3,427.2	3,521.9	3,561.8	3,707.0	3,615.1	3,616.9	3,884.5	4,226.7	4,262.3
Amount of revision	55.3	64.2	64.8	47.4	25.8	40.0	28.7	13.4	22.8	15.9	23.9
Imports of goods											
Revised	1,580.0	1,939.0	2,239.9	2,303.7	2,294.2	2,385.5	2,273.2	2,207.2	2,356.3	2,557.3	2,516.8
Previously published Amount of revision	1,580.0 0.0	1,939.0 0.0	2,239.9 0.0	2,303.7 0.0	2,294.2 0.0	2,385.5 0.0	2,273.2 0.0	2,207.2 0.0	2,358.8 -2.4	2,561.7 -4.4	2,519.0 -2.3
Newly available and revised source data	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-2.4	-4.4	-2.3
Imports of services											
Revised	407.5	436.5	458.2	469.6	465.8	490.9	497.8	511.9	544.8	562.1	588.4
Previously published	386.8	409.3	435.8	452.0	461.1	480.8	492.0	511.6	543.9	567.3	595.4
Amount of revision	20.7	27.1	22.4	17.6	4.7	10.2	5.8	0.3	1.0	-5.3	-7.1
Reclassification to capital-account payments	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	-0.1	-0.1	-0.1
Improved estimation methods and newly available and revised source data	20.7	27.2	22.4	17.6	4.8	10.2	5.8	0.3	1.0	-5.2	-6.9
Manufacturing services on physical inputs owned by others (new major category)	n.a.	n.a.	n.a.								
Maintenance and repair services n.i.e.											
Revised	5.3	5.9	7.2	7.1	6.7	6.7	8.1	7.6	6.8	7.1	7.8
Previously published Amount of revision	5.9 -0.7	6.9 -1.1	8.2 -1.1	8.0 -0.9	7.4 -0.7	7.5 -0.8	9.0 -0.9	8.8 -1.2	8.4 -1.6	8.7 -1.6	8.8 -1.0
Reclassification of installation	-0.7	-1.1	-1.1	-0.9	-0.7	-0.0	-0.9	-1.2	-1.0	-1.0	-1.0
services to other business services	-0.3	-1.0	-1.1	-0.8	-0.5	-0.5	-0.5	-1.0	-1.9	-2.2	-2.1
Improved universe estimation method and newly available and revised source data	-0.4	(*)	(*)	-0.1	-0.3	-0.3	-0.5	-0.1	0.3	0.6	1.1
Transport			05.0	00.0	<u>.</u>	00.0	00.1		0.1 -	40.50	1055
Revised Previously published	75.8 64.1	88.4 74.6	95.0 81.4	99.3 85.0	94.4 90.6	99.8 94.2	99.6 97.0	92.4 97.0	96.5 101.8	106.3 108.2	107.5 110.1
Amount of revision	64.1 11.7	13.8	81.4	85.0 14.3	90.6 3.8	94.2 5.6	97.0	-4.6	-5.2	-1.9	-2.7
Improved method for estimating air passenger transport	11.7	15.2	17.2	14.3	9.2	9.1	6.5	-4.0	-3.2	4.5	4.5
Improved estimation methods and newly available and revised source data for estimating sea freight and port services	0.6	-1.5	-3.6	-3.9	-7.1	-5.8	-4.6	-4.5	-5.7	-5.7	-6.6
Newly available and revised source data for air port services	0.0	0.0	0.0	0.0	1.7	2.3	0.6	-1.1	-1.0	-0.7	-0.6

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Travel (for all purposes including											
education)											
Revised	82.5	85.2	86.6	90.3	91.1	96.2	102.7	109.2	118.0	126.0	134.6
Previously published	81.4	86.6	89.7	100.3	98.1	105.7	114.5	123.5	134.9	144.5	152.3
Amount of revision	1.1	-1.5	-3.1	-10.0	-7.0	-9.4	-11.9	-14.4	-16.9	-18.5	-17.7
Improved estimation methods	1.1	-1.5	-3.1	-10.0	-7.0	-9.4	-11.9	-14.4	-16.9	-18.5	-17.7
Construction	2.7	2.6	2.0	2.2	2.6	2.2	2.0	1.0	2.0	2.2	1.2
Revised	3.7	2.6	3.0	3.3	2.6	2.3	3.0	1.8	2.0	3.2	1.3
Previously published <sup>1</sup>											
Amount of revision	3.7	2.6	3.0	3.3	2.6	2.3	3.0	1.8	2.0	3.2	1.3
Reclassification from other business services	3.6	2.5	2.9	3.3	2.5	2.2	2.9	1.6	1.7	2.7	3.0
Improved universe estimation											
method and newly available and revised source data	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	-1.6
Insurance services											
Revised	64.0	63.5	58.3	58.7	53.0	52.8	49.8	52.1	50.9	43.7	51.5
Previously published	63.8	61.5	55.7	55.5	53.4	51.0	49.8	50.1	50.9	43.7	48.6
Amount of revision	03.8	2.0	2.6	3.2	-0.4	1.7	2.4	1.9	0.3	42.5	40.0
Improved universe estimation	0.2	2.0	2.0	5.2	-0.4	1./	2.4	1.9	0.5	1.5	5.0
method and newly available and revised source data	0.2	2.0	2.6	3.2	-0.4	1.7	2.4	1.9	0.3	1.3	3.0
Financial services											
Revised	24.9	27.2	30.3	28.7	29.3	32.8	32.6	32.7	36.6	39.2	40.4
Previously published	14.4	15.5	17.4	16.7	21.5	24.9	25.8	25.7	29.0	31.3	33.7
Amount of revision	14.4	11.7	17.4	12.0	7.7	7.9	6.8	7.0	29.0	8.0	6.7
Introduction of FISIM	10.5	11.7	12.9	8.0	7.7	7.9	6.8 6.6	6.2	6.6	7.2	6.7 7.1
Introduction of market-making											
services	0.4	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
Improved universe estimation method and newly available and	(*)	1.3	2.4	3.7	0.3	0.3	(*)	0.5	0.9	0.5	-0.7
revised source data Charges for the use of intellectual											
property n.i.e.											
Revised	29.4	31.1	32.9	35.1	35.3	37.6	35.2	42.0	44.4	43.9	42.7
Previously published	31.3	32.6	36.1	38.7	38.9	42.0	40.6	47.0	53.4	56.1	57.1
Amount of revision	-1.9	-1.4	-3.2	-3.6	-3.6	-4.4	-5.4	-5.0	-9.0	-12.2	-14.3
Reclassification to capital- account payments	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	-0.1	-0.1	-0.1
Reclassification to telecommunications, computer, and information services	-0.1	-0.2	-0.1	-0.2	-0.2	-0.2	-0.2	-0.2	-0.2	-0.1	-0.1
Reclassifications to other business services and to personal, cultural, and recreational services <sup>2</sup>	-2.4	-2.2	-3.0	-3.7	-4.4	-5.7	-7.5	-8.3	-12.8	-13.9	-15.3
Improved universe estimation method and newly available and revised source data	0.7	1.0	(*)	0.3	1.1	1.5	2.3	3.6	4.1	1.9	1.2
Felecommunications, computer, and											
information services	0.6.0	<b>0</b> 6 i	00.0	00.0	05.0	06 7	00.0	oc -		10.1	
Revised	26.0	29.4	32.8	33.3	35.9	38.5	38.8	39.7	43.1	42.6	43.7
Previously published	25.8	29.0	32.8	32.8	35.0	36.5	36.7	37.4	39.6	41.2	43.2
Amount of revision	0.3	0.4	0.1	0.5	0.8	2.0	2.1	2.3	3.5	1.4	0.6
Reclassification from charges for the use of intellectual property n.i.e.	0.1	0.2	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.1	0.1
11.1.C.								2.1	3.2		
Improved universe estimation method and newly available and revised source data	0.2	0.2	(*)	0.3	0.6	1.8	1.9	2.1	5.2	1.3	0.5
method and newly available and revised source data	0.2	0.2	(*)	0.3	0.6	1.8	1.9	2.1	5.2	1.3	0.5
method and newly available and revised source data <b>Other business services</b>											
method and newly available and revised source data <b>Other business services</b> Revised	59.5	65.9	74.1	78.7	84.0	90.7	95.1	100.5	107.0	107.8	113.6
method and newly available and revised source data <b>Other business services</b> Revised Previously published	59.5 68.6	65.9 70.6	74.1 83.3	78.7 87.2	84.0 90.7	90.7 94.8	95.1 99.4	100.5 100.6	107.0 104.2	107.8 111.9	113.6 117.6
method and newly available and revised source data <b>Other business services</b> Revised Previously published Amount of revision	59.5	65.9	74.1	78.7	84.0	90.7	95.1	100.5	107.0	107.8	113.6 117.6
method and newly available and revised source data <b>Other business services</b> Revised Previously published Amount of revision Reclassification from maintenance and repair services	59.5 68.6	65.9 70.6	74.1 83.3	78.7 87.2	84.0 90.7	90.7 94.8	95.1 99.4	100.5 100.6	107.0 104.2	107.8 111.9	113.6 117.6 -4.0
method and newly available and revised source data Other business services Revised Previously published Amount of revision Reclassification from maintenance and repair services n.i.e.	59.5 68.6 -9.0 0.3	65.9 70.6 -4.7 1.0	74.1 83.3 -9.2 1.1	78.7 87.2 -8.5 0.8	84.0 90.7 -6.7 0.5	90.7 94.8 -4.1 0.5	95.1 99.4 -4.2 0.5	100.5 100.6 -0.1 1.0	107.0 104.2 2.8 1.9	107.8 111.9 -4.0 2.2	113.6 117.6 -4.0 2.1
method and newly available and revised source data <b>Other business services</b> Revised Previously published Amount of revision Reclassification from maintenance and repair services n.i.e. Reclassification to construction Reclassification to personal, cultural, and recreational services	59.5 68.6 -9.0 0.3 -3.6	65.9 70.6 -4.7 1.0 -2.5	74.1 83.3 -9.2 1.1 -2.9	78.7 87.2 -8.5 0.8 -3.3	84.0 90.7 -6.7 0.5 -2.5	90.7 94.8 -4.1 0.5 -2.2	95.1 99.4 -4.2 0.5 -2.9	100.5 100.6 -0.1 1.0 -1.6	107.0 104.2 2.8 1.9 -1.7	107.8 111.9 -4.0 2.2 -2.7	113.6 117.6 -4.0 2.1 -3.0
method and newly available and revised source data Other business services Revised Previously published Amount of revision Reclassification from maintenance and repair services n.i.e. Reclassification to construction Reclassification to personal, cultural, and recreational services and reclassification from charges for the use of intellectual property n.i.e. <sup>2</sup>	59.5 68.6 -9.0 0.3	65.9 70.6 -4.7 1.0	74.1 83.3 -9.2 1.1	78.7 87.2 -8.5 0.8	84.0 90.7 -6.7 0.5	90.7 94.8 -4.1 0.5	95.1 99.4 -4.2 0.5	100.5 100.6 -0.1 1.0	107.0 104.2 2.8 1.9	107.8 111.9 -4.0 2.2	113.6 117.6 -4.0 2.1 -3.0
method and newly available and revised source data Other business services Revised Previously published Amount of revision Reclassification from maintenance and repair services n.i.e. Reclassification to construction Reclassification to personal, cultural, and recreational services and reclassification from charges for the use of intellectual	59.5 68.6 -9.0 0.3 -3.6	65.9 70.6 -4.7 1.0 -2.5	74.1 83.3 -9.2 1.1 -2.9	78.7 87.2 -8.5 0.8 -3.3	84.0 90.7 -6.7 0.5 -2.5	90.7 94.8 -4.1 0.5 -2.2	95.1 99.4 -4.2 0.5 -2.9	100.5 100.6 -0.1 1.0 -1.6	107.0 104.2 2.8 1.9 -1.7	107.8 111.9 -4.0 2.2 -2.7	113.6 117.6 -4.0 2.1 -3.0 -5.4
method and newly available and revised source data Other business services Revised Previously published Amount of revision Reclassification from maintenance and repair services n.i.e. Reclassification to construction Reclassification to personal, cultural, and recreational services and reclassification from charges for the use of intellectual property n.i.e. <sup>2</sup> Improved universe estimation method and newly available and revised source data Personal, cultural, and recreational	59.5 68.6 -9.0 0.3 -3.6 -2.5	65.9 70.6 -4.7 1.0 -2.5 -3.1	74.1 83.3 -9.2 1.1 -2.9 -3.8	78.7 87.2 -8.5 0.8 -3.3 -3.5	84.0 90.7 -6.7 0.5 -2.5 -3.4	90.7 94.8 -4.1 0.5 -2.2 -3.0	95.1 99.4 -4.2 0.5 -2.9 -3.4	100.5 100.6 -0.1 1.0 -1.6 -3.4	107.0 104.2 2.8 1.9 -1.7 -3.9	107.8 111.9 -4.0 2.2 -2.7 -4.4	113.6 117.6 -4.0 2.1 -3.0 -5.4
method and newly available and revised source data Other business services Revised Previously published Amount of revision Reclassification from maintenance and repair services n.i.e. Reclassification to construction Reclassification to personal, cultural, and recreational services and reclassification from charges for the use of intellectual property n.i.e. <sup>2</sup> Improved universe estimation method and newly available and revised source data Personal, cultural, and recreational services	59.5 68.6 -9.0 0.3 -3.6 -2.5 -3.3	65.9 70.6 -4.7 1.0 -2.5 -3.1 -0.2	74.1 83.3 -9.2 1.1 -2.9 -3.8 -3.6	78.7 87.2 -8.5 0.8 -3.3 -3.5 -2.6	84.0 90.7 -6.7 0.5 -2.5 -3.4 -1.2	90.7 94.8 -4.1 0.5 -2.2 -3.0 0.7	95.1 99.4 -4.2 0.5 -2.9 -3.4	100.5 100.6 -0.1 1.0 -1.6 -3.4 3.9	107.0 104.2 2.8 1.9 -1.7 -3.9 6.5	107.8 111.9 -4.0 2.2 -2.7 -4.4 0.9	113.6 117.6 -4.0 2.1 -3.0 -5.4
method and newly available and revised source data Other business services Revised Previously published Amount of revision Reclassification from maintenance and repair services n.i.e. Reclassification to construction Reclassification to personal, cultural, and recreational services and reclassification from charges for the use of intellectual property n.i.e. <sup>2</sup> Improved universe estimation method and newly available and revised source data Personal, cultural, and recreational	59.5 68.6 -9.0 0.3 -3.6 -2.5	65.9 70.6 -4.7 1.0 -2.5 -3.1	74.1 83.3 -9.2 1.1 -2.9 -3.8	78.7 87.2 -8.5 0.8 -3.3 -3.5	84.0 90.7 -6.7 0.5 -2.5 -3.4	90.7 94.8 -4.1 0.5 -2.2 -3.0	95.1 99.4 -4.2 0.5 -2.9 -3.4	100.5 100.6 -0.1 1.0 -1.6 -3.4	107.0 104.2 2.8 1.9 -1.7 -3.9	107.8 111.9 -4.0 2.2 -2.7 -4.4	0.5 113.6 117.6 -4.0 2.1 -3.0 -5.4 2.3 21.1

Relational problem intermediation of matrix problem intermediation of matrix problem method and networks and method and networks and intermediation of matrix problem intermediation of matrix problem intermediatin problem 		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
i.e. and from other basiness' services'         i.o.         i.o.         i.i.a.         i.o.         i.o. </td <td>Reclassifications from charges for</td> <td></td>	Reclassifications from charges for											
membed and newly available and revised source data0.1 <th0.1< th="">0.10.1<th0< td=""><td>n.i.e. and from other business</td><td>4.9</td><td>5.3</td><td>6.8</td><td>7.2</td><td>7.8</td><td>8.7</td><td>10.9</td><td>11.7</td><td>16.7</td><td>18.3</td><td>20.8</td></th0<></th0.1<>	n.i.e. and from other business	4.9	5.3	6.8	7.2	7.8	8.7	10.9	11.7	16.7	18.3	20.8
Revised         315         320         313         379         253         242         215         215         220         230         241           Devicuoly publised         0.0	method and newly available and revised source data	0.1	0.1	-0.1	(*)	0.4	0.6	0.5	0.8	0.8	0.9	0.4
Previously published31.532.031.637.032.332.021.531.532.032.030.030.030.030.0Newly available and revised00												
Amount of revision         00												
Newly available and revised servised0.0	• •											
source data         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         6.00         7.00		0.0			0.0					0.0		
Revised         537.7         553.3         590.0         592.8         616.0         645.6         630.7         630.3         860.1           Amount of revision         396         1.14         442         33.3         22.9         33.3         23.9         32.2         27.1         33.2           Direct investment         199.9         164.5         184.9         179.3         179.8         176.6         117.6         117.6         21.67         245.4         248.8           Revised         119.9         164.5         184.9         179.3         173.8         173.6		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)
Revised         537.7         553.3         590.0         592.8         616.0         645.6         630.7         630.3         860.1           Amount of revision         396         1.14         442         33.3         22.9         33.3         23.9         32.2         27.1         33.2           Direct investment         199.9         164.5         184.9         179.3         179.8         176.6         117.6         117.6         21.67         245.4         248.8           Revised         119.9         164.5         184.9         179.3         173.8         173.6	Primary income navments											
Previously published         98.1         51.9         54.4         50.0         58.8         60.2         60.6         60.7         83.2         83.2         7.3           Direct investment         109         164.5         1184         179.3         192.9         178.8         177.6         177.6         21.7         23.2         23.3         23.2         23.2         23.3         23.2         23.2         23.3         23.2         23.3         23.2         23.3         23.2         23.3         23.2         23.3         23.2         23.3         23.2         23.3		537.7	553.3	589.0	593.8	616.0	645.6	639.7	660.8	739.7	857.3	899.3
Amount of revision         39.6         41.4         44.2         33.3         29.2         39.5         33.3         12.9         137.6												
Direct investment         Image												
Previously pullished         1199         164.5         184.0         107.3         102.0         107.8         17.3         12.3         12.4         24.5           Amount of revision         0.0<												
Amount of revision         0.0	Revised	119.9	164.5	184.9	179.3	192.9	197.8	177.6	177.6	210.7	245.4	248.8
Newly available and revised         0.0<		119.9	164.5	184.9	179.3	192.9	197.8	175.3	183.8	205.8	244.2	245.8
source data         base	Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	2.3	-6.2	4.9	1.2	3.0
Portfolio investment         ID         ID <td></td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>0.0</td> <td>2.3</td> <td>-6.2</td> <td>4.9</td> <td>1.2</td> <td>3.0</td>		0.0	0.0	0.0	0.0	0.0	0.0	2.3	-6.2	4.9	1.2	3.0
Revised332.3315.6332.4353.3354.1384.4395.4416.9445.2485.2Amount of revision32.533.533.532.436.137.439.647.643.647.8485.2Amount of revision32.67.26.17.07.00.99.312.316.410.4PISM-related changes to Introduction of income from Treasury inflation adjustments to Treasury inflation adjustment to <b< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></b<>												
Previously published         332.5         33.5.5         324.9         345.2         36.1.8         37.7         398.6         407.6         433.6         471.8         4432.6           Amount of revision         -0.2         2.0         7.2         6.1         3.4         7.0         0.9         9.3         12.3         16.4         10.4           primary income         (°)		332.3	315.6	332.2	3513	365.1	384.4	399.5	416.9	445 9	488.2	495.6
Amount of revision         -0.2         2.0         7.2         6.1         3.4         7.0         0.0         9.3         12.3         16.4         10.4           Information of nome from inflation adjustments to scurites         -0.02         2.02         7.3         6.1         3.4         7.0         0.0												
FISM-related changes to introduction of income from inflation adjustments to securities         (*) <td></td>												
Introduction of income from indication adjustments to resurvited         -0-2         2.0         7.3         6.1         3.4         7.0         0.9         9.2         1.22         1.54         1.18           Newly available and revised source data         0.0	FISIM-related changes to			(*)			(*)					
Securities         Image         Image <thimage< th="">         Image         Image</thimage<>	Introduction of income from inflation adjustments to	-0.2	2.0	7.3	6.1	3.4	7.0	0.9	9.2	12.2	15.4	11.8
source data         0.0 <th< td=""><td>Securities</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	Securities											
Revised       71.6       55.8       58.0       48.8       42.8       47.4       46.0       49.0       66.2       10.6.1       13.8         Previously published       31.3       20.0       20.8       21.0       16.1       13.8       15.0       22.7       49.2       94.6       114.8         Amount of revision       40.3       39.8       37.2       27.8       26.6       33.6       31.0       22.2       17.1       10.9       21.6         Improved universe estimation method and newly available and rewly available source data       (°)       -0.1       -0.1       -0.2       (°)       (°)       0.1       (°)       11.1       10.9       21.6         Compensation of employees       -	source data	0.0	0.0	0.0	0.0	0.0	0.0	(*)	(*)	(*)	0.7	-1.7
Previously published       31.3       20.0       20.8       21.0       16.1       13.8       15.00       26.7       49.2       94.6       114.8         Amount of revision       40.3       39.8       37.2       27.8       26.6       33.6       31.0       22.3       17.0       12.0       21.4         Improved universe estimation method and newly available and revised source data		71.6	59.8	58.0	48.8	42.8	47.4	46.0	49.0	66.2	106.6	136.2
Amount of revision       40.3       39.8       37.2       27.8       26.6       33.6       31.0       22.3       17.0       12.0       21.4         FISM-related changes to primary income       40.3       39.7       37.3       27.9       26.8       33.6       31.0       22.2       17.1       10.9       21.6         Improved universe estimation method and newly available and revised source data       (*)       (*)       -0.1       -0.2       (*)       (*)       0.1       (*)       1.1       10.9       21.6         Compensation of employees												
primary income       40.3       3.9.7       3.9.7       27.9       26.8       3.3.0       3.1.0       22.2       17.1       10.9       21.0         Improved universe estimation anethod and newly available and revised source data       (*)       (*)       -0.1       -0.2       (*)       (*)       0.1       (*)       1.1       -0.2         Revised       13.9       13.5       13.9       14.3       15.2       15.9       16.7       17.3       16.9       17.1       18.8         Previously published       14.4       14.0       14.2       14.9       16.0       17.1       17.7       18.7       19.0       19.6       20.3         Amount of revision       -0.5       -0.4       -0.2       -0.6       -0.8       -1.1       -1.0       -1.4       -2.1       -2.5       -1.5         Improvements to compensation methodology and newly available and revised source data       -0.5       -0.4       -0.2       20.6       -0.8       -1.1       -1.0       -1.4       -2.1       -2.5       -1.5         Revised       185.7       190.7       204.9       202.2       211.5       224.9       233.0       250.4       265.9       281.7         Previously published       <												
method and newly available and revised source data         (*)         (*)         (*)         -0.1         -0.2         (*)         (*)         (*)         (*)         1.1         -0.2           Compensation of employes	primary income	40.3	39.7	37.3	27.9	26.8	33.6	31.0	22.2	17.1	10.9	21.6
Compensation of employeesImage: set of the set of th	method and newly available	(*)	(*)	-0.1	-0.1	-0.2	(*)	(*)	0.1	(*)	1.1	-0.2
Revised       13.9       13.5       13.9       14.3       15.2       15.9       16.7       17.3       16.9       17.1       18.8         Previously published       14.4       14.0       14.2       14.9       16.0       7.1       17.7       18.7       19.0       19.6       20.3         Amount of revision       -0.5       -0.4       -0.2       10.6       -0.8       -1.1       1.0       -1.4       -2.1       2.5.5       -1.5         Improvements to compensation methodology and newly available and revised source data       -0.5       -0.4       -0.2       -0.6       -0.8       -1.1       -1.0       -1.4       -2.1       -2.5       -1.5         Secondary income payments       -0.5       -0.4       -0.2       20.2       21.5       224.9       23.0       25.0       26.5       28.17         Revised       185.7       190.7       20.67       205.6       21.66       23.46       24.30       25.04       26.32       28.17         Amount of revision       -5.0       -5.7       195.7       20.67       20.65       21.66       24.34       26.12       27.43       26.52       28.17         Amount of revision       -5.7       -6.67 <td></td>												
Amount of revision       -0.5       -0.4       -0.2       -0.6       -0.8       -1.1       -1.0       -1.4       -2.1       -2.5       -1.5         Improvements to compensation methodology and newly available and revised source data       -0.5       -0.4       -0.2       -0.6       -0.8       -1.1       -1.0       -1.4       -2.1       -2.5       -1.5         Secondary income payments		13.9	13.5	13.9	14.3	15.2	15.9	16.7	17.3	16.9	17.1	18.8
Improvements to compensation methodology and newly available and revised source data         -0.5         -0.4         -0.2         -0.6         -0.8         -1.1         -1.0         -1.4         -2.1         -2.5         -1.5           Secondary income payments Revised         185.7         190.7         204.9         202.2         211.5         224.9         233.0         250.4         266.4         265.9         281.7           Previously published         190.7         195.0         206.7         205.6         219.6         234.6         243.4         261.2         274.3         267.5         281.7           Amount of revision         -5.0         -4.3         -1.8         -3.4         -8.1         -9.7         -10.4         10.8         7.7         6.7         7.8           Reclassification to capital-account payments         -0.1         -0.2         0.3         0.2         0.2         -0.5         0.2         -0.4         -1.4         1.7         4.8           Methodological improvements         -0.1         -0.2         0.3         0.2         0.2         -0.5         0.2         -0.4         -1.4         1.7         4.8           Methodological improvements         -0.1         -0.2         0.3         0.2 </td <td>Previously published</td> <td>14.4</td> <td>14.0</td> <td>14.2</td> <td>14.9</td> <td>16.0</td> <td>17.1</td> <td>17.7</td> <td>18.7</td> <td>19.0</td> <td>19.6</td> <td>20.3</td>	Previously published	14.4	14.0	14.2	14.9	16.0	17.1	17.7	18.7	19.0	19.6	20.3
methodology and newly available and revised source data         -0.5         -0.4         -0.2         -0.6         -0.8         -1.1         -1.0         -1.4         -2.1         -2.5         -1.5           and revised source data         I		-0.5	-0.4	-0.2	-0.6	-0.8	-1.1	-1.0	-1.4	-2.1	-2.5	-1.5
Revised185.7190.7204.9202.2211.5224.9233.0250.4266.4265.9281.7Previously published190.7195.0206.7205.6219.6234.6243.4261.2274.3267.5281.7Amount of revision-5.0-4.3-1.8-3.4-8.1-9.7-10.4-10.8-7.9-1.5(*)Reclassification to capital-account payments-5.7-6.7-7.78-5.9-6.1-6.57.79-6.5-6.5-7.4-6.2Methodological improvements-0.1-0.20.30.20.2-0.50.2-0.4-1.41.74.8Newly available and revised source data0.82.65.72.32.2-2.7-2.8-3.9(*)4.11.4Previously published0.82.65.72.8-2.2-2.7-2.8-3.9(*)4.11.4Capital transfer payments and other debits Revised5.96.99.06.86.66.68.06.76.87.56.3Previously published0.10.21.20.80.4(*)(*)0.20.2(*)(*)(*)Amount of revision5.76.77.86.06.26.58.06.56.67.56.3Previously published5.76.77.86.06.26.58.06.56.67.46.2<	methodology and newly available	-0.5	-0.4	-0.2	-0.6	-0.8	-1.1	-1.0	-1.4	-2.1	-2.5	-1.5
Revised185.7190.7204.9202.2211.5224.9233.0250.4266.4265.9281.7Previously published190.7195.0206.7205.6219.6234.6243.4261.2274.3267.5281.7Amount of revision-5.0-4.3-1.8-3.4-8.1-9.7-10.4-10.8-7.9-1.5(*)Reclassification to capital-account payments-5.7-6.7-7.78-5.9-6.1-6.57.79-6.5-6.5-7.4-6.2Methodological improvements-0.1-0.20.30.20.2-0.50.2-0.4-1.41.74.8Newly available and revised source data0.82.65.72.32.2-2.7-2.8-3.9(*)4.11.4Previously published0.82.65.72.8-2.2-2.7-2.8-3.9(*)4.11.4Capital transfer payments and other debits Revised5.96.99.06.86.66.68.06.76.87.56.3Previously published0.10.21.20.80.4(*)(*)0.20.2(*)(*)(*)Amount of revision5.76.77.86.06.26.58.06.56.67.56.3Previously published5.76.77.86.06.26.58.06.56.67.46.2<												
Previously published19071950206720562196234.6243.4261.2274.3267.5281.7Amount of revision $-5.0$ $-4.3$ $-1.8$ $-3.4$ $-8.1$ $-9.7$ $-10.4$ $-10.8$ $-7.9$ $-1.5$ (*)Reclassification to capital-account payments $-5.7$ $-6.7$ $-7.8$ $-5.9$ $-6.1$ $-6.5$ $-7.9$ $-6.5$ $-6.5$ $-7.4$ $-6.2$ Methodological improvements $-0.1$ $-0.2$ $0.3$ $0.2$ $0.2$ $-0.5$ $0.2$ $-0.4$ $-1.4$ $1.7$ $4.8$ Newly available and revised source data $0.8$ $2.6$ $5.7$ $2.3$ $2.2$ $-2.7$ $-2.8$ $-3.9$ $(*)$ $4.1$ $1.4$ Revised $0.8$ $2.6$ $5.7$ $0.2$ $-2.7$ $-2.8$ $-3.9$ $(*)$ $4.1$ $1.4$ Revised $5.9$ $6.9$ $9.0$ $6.8$ $6.6$ $6.6$ $8.0$ $6.7$ $6.8$ $7.5$ $6.3$ Previously published $0.1$ $0.2$ $1.2$ $0.8$ $0.4$ $(*)$ $(*)$ $(*)$ $(*)$ $(*)$ $(*)$ $(*)$ $(*)$ Amount of revision $5.7$ $6.7$ $7.8$ $6.0$ $6.2$ $6.5$ $8.0$ $6.5$ $6.6$ $7.5$ $6.3$ Reclassifications from secondary income $5.7$ $6.7$ $7.8$ $6.0$ $6.5$ $7.9$ $6.5$ $6.5$ $7.4$ $6.2$ Reclassifications from imports of </td <td></td> <td>105 5</td> <td>100 7</td> <td>2010</td> <td>202.2</td> <td>044 5</td> <td>004.0</td> <td>222.2</td> <td>050 1</td> <td>244</td> <td>DOFO</td> <td>201 7</td>		105 5	100 7	2010	202.2	044 5	004.0	222.2	050 1	244	DOFO	201 7
Amount of revision       -5.0       -4.3       -1.8       -3.4       -8.1       -9.7       -1.0.4       -1.0.8       -7.9       -1.5       (*)         Reclassification to capital-account payments       -5.7       -6.7       -7.8       -5.9       -6.1       -6.5       -7.9       -6.5       -6.5       -7.4       -6.2         Methodological improvements       -0.1       -0.2       0.3       0.2       0.2       -0.5       0.2       -0.4       -1.4       1.7       4.8         Newly available and revised source data       0.8       2.6       5.7       2.3       -2.2       -2.7       -2.8       -3.9       (*)       4.1       1.4         Capital transfer payments and other debits												
Reclassification to capital-account payments $-5.7$ $-6.7$ $-7.8$ $-5.9$ $-6.1$ $-6.5$ $-7.9$ $-6.5$ $-6.5$ $-7.4$ $-6.2$ Methodological improvements $-0.1$ $-0.2$ $0.3$ $0.2$ $0.2$ $0.2$ $0.2$ $0.2$ $0.4$ $-1.4$ $1.7$ $4.8$ Newly available and revised source data $0.8$ $2.6$ $5.7$ $2.3$ $2.2$ $2.27$ $7.28$ $3.90$ $(.1)$ $4.1$ $1.4$ Capital transfer payments and other debits Revised $-1.4$ <td></td>												
payments       -5.7       -6.7       -7.8       -5.9       -6.1       -6.5       -7.9       -6.5       -6.5       -7.4       -6.2         Methodological improvements       -0.1       -0.2       0.3       0.2       0.2       -0.5       0.2       -0.4       -1.4       1.7       4.8         Newly available and revised source data       0.8       2.6       5.7       2.3       -2.2       -2.7       -2.8       -3.9       (*)       4.1       1.4         Capital transfer payments and other debits												
Methodological improvements      0.1      0.2       0.3       0.2       0.2       -0.4       -1.4       1.7       4.8         Newly available and revised source data       0.8       2.6       5.7       2.3       -2.2       -2.7       -2.8       -3.9       (*)       4.1       1.4         Capital transfer payments and other debits	1	-5.7	-6.7	-7.8	-5.9	-6.1	-6.5	-7.9	-6.5	-6.5	-7.4	-6.2
Newly available and revised source data       0.8       2.6       5.7       2.3       -2.2       -2.7       -2.8       -3.9       (*)       4.1       1.4         Capital transfer payments and other debits		-0.1	-0.2	0.3	0.2	0.2	-0.5	0.2	-0.4	-1.4	1.7	4.8
Capital transfer payments and other debits         Second Sec												
Revised         5.9         6.9         9.0         6.8         6.6         8.0         6.7         6.8         7.5         6.3           Previously published         0.1         0.2         1.2         0.8         0.4         (*)         (*)         0.2         0.2         (*)         (*)           Amount of revision         5.7         6.7         7.8         6.0         6.2         6.5         8.0         6.5         6.6         7.5         6.3           Reclassifications from secondary income         5.7         6.7         7.8         5.9         6.1         6.5         7.9         6.5         6.5         7.4         6.2           Reclassifications from imports of services         (*)         (*)         (*)         (*)         (*)         0.1         0.1         0.1	data	0.0	2.0	5.7	2.3	-2.2	-2.7	-2.0	-3.9	Û	4.1	1.4
Previously published         0.1         0.2         1.2         0.8         0.4         (*)         (*)         0.2         0.2         (*)         (*)           Amount of revision         5.7         6.7         7.8         6.0         6.2         6.5         8.0         6.5         6.6         7.5         6.3           Reclassifications from secondary income         5.7         6.7         7.8         5.9         6.1         6.5         7.9         6.5         6.5         7.4         6.2           Reclassifications from imports of services         (*)         (*)         (*)         (*)         (*)         (*)         0.1         0.1         0.1	Capital transfer payments and other debits											
Amount of revision         5.7         6.7         7.8         6.0         6.2         6.5         8.0         6.5         6.6         7.5         6.3           Reclassifications from secondary income         5.7         6.7         7.8         5.9         6.1         6.5         7.9         6.5         6.5         7.4         6.2           Reclassifications from imports of services         (*)         (*)         (*)         (*)         (*)         (*)         (*)         0.1         0.1         0.1												
Reclassifications from secondary income         5.7         6.7         7.8         5.9         6.1         6.5         7.9         6.5         6.5         7.4         6.2           Reclassifications from imports of services         (*)         (*)         (*)         (*)         (*)         (*)         (*)         0.1         0.1         0.1         0.1										-		
Reclassifications from imports of services         (*)         (*)         (*)         (*)         (*)         (*)         (*)         0.1         0.1         0.1							6.5	8.0				6.3
services . () () () () () () () 0.1 0.1		5.7	6.7	7.8	5.9	6.1	6.5	7.9	6.5	6.5	7.4	6.2
Services		(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	0.1	0.1	0.1
	services Newly available and revised source data	(*)	(*)	(*)	(*)	(*)	0.1	0.1	0.1	(*)	(*)	(*)

(\*) A nonzero value between -\$50,000,000 and \$50,000,000.

**n.a.** Transactions are possible, but data are not available.

..... Not applicable

**n.i.e.** Not included elsewhere

Note. Reclassifications were calculated using unrevised values.

- 1. Introduced in the 2020 annual update as a major category.
- 2. The value of reclassifications to or from more than one major category were combined to avoid the disclosure of data of individual companies.

**Primary income.** Primary income receipts for 1999–2005 and 2008–2019 were revised up, while income receipts for 2006 and 2007 were revised down. The revisions for 1999–2014 reflect revisions to other investment income receipts, and the revisions for 2016–2018 mostly reflect the combination of revisions to direct investment income and other investment income. For 2015 and 2019, the revisions are more than accounted for by revisions to other investment income. Revisions to other investment income receipts mostly reflect FISIM-related changes to the methodology and source data used for estimation. For 2015, revisions to direct investment income receipts reflect revisions to current-cost adjustments due to newly available and revised source data from BEA annual direct investment surveys and from the BEA national accounts.<sup>22</sup> For 2016–2019, revisions also reflect newly available and revised income data from BEA's quarterly and annual direct investment surveys.

Primary income payments for 1999–2019 were revised upward each year. The largest upward revisions are in other investment income payments, which reflect FISIM-related changes, and in portfolio investment income, which reflect the introduction of estimates of income arising from inflation adjustments to TIPS.

**Secondary income.** Secondary income receipts were revised down for 1999–2009 and for 2017–2019; they were revised up for 2010–2016. The downward revisions for 1999–2009 are mainly accounted for by downward revisions to other private transfer receipts, primarily social benefits, reflecting newly available source data on pension receipts from Germany. The revisions for 2009–2019 are mainly accounted for by revisions to other private transfer receipts, mainly insurance-related transfers, reflecting improvements in the estimation methodology for nonsampled and nonreporting units in BEA's survey on insurance services.<sup>23</sup> In addition, taxes on income were revised down for all years, with revisions increasing in magnitude over time. These revisions partly offset the upward revisions to insurance-related transfers in 2010–2016 and contributed to the downward revision to total secondary income receipts for 2009 and 2017–2019.

Secondary income payments were revised down for most years. The revisions are mainly accounted for by general government transfer payments, which are revised down for all years (1999–2019), reflecting the reclassification of investment grants from secondary income to capital transfer payments. The upward revisions in 1999 and 2001 reflect revisions to charitable donations payments, which were reestimated for 1999–2007 to address a break in series in 2008.

# **Capital-account highlights**

The balance on the capital account was revised down for 1999–2019 (lower surpluses or higher deficits). The largest revision was a downward revision of \$12.2 billion in the capital account surplus for 2005. Revisions to capital transfer payments reflect the reclassification of investment grants from secondary income in the current account to the capital account, and averaging \$6.1 billion upward revision per year over the period. Revisions to capital transfer receipts and

payments also reflect the inclusion of outright sales or purchases of franchises and trademarks, which were previously recorded under charges for the use of intellectual property, and the use of new data sources to improve coverage of transfer fees related to professional athletes.

## **Financial-account highlights**

Financial-account statistics for 1999–2019 were updated to include the new category "other equity assets," a component of other investment assets. Beginning with statistics for 2015, revisions also reflect revisions to current-cost adjustments due to newly available and revised source data from BEA annual direct investment surveys and from the BEA national accounts. Statistics for 2016–2019 were also revised to incorporate newly available and revised source data from BEA quarterly and annual direct investment surveys, TIC surveys, and updated seasonal factors. Revisions to net borrowing from financial-account transactions for 1999–2019 did not alter its direction of change for any year. The largest revisions to net borrowing from financial-account transactions for 2018 and a downward revision of \$23.5 billion for 2017 (table G, chart 4).

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Net U.S. acquisition of financial assets excluding financial	1///	2000	2001	2002	2000	2001	2005	2000	2007	2000
derivatives (line 67):										
Revised	526.6	587.7	386.3	319.2	371.1	1058.7	563.0	1324.6	1563.5	-317.6
Previously published	526.6	587.7	386.3	319.2	371.1	1058.7	563.0	1324.6	1563.5	-317.6
Amount of revision	0.0	0.0	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Direct investment assets (line 68):										
Revised	247.5	186.4	146.0	179.0	195.2	374.0	52.6	283.8	523.9	343.6
Previously published	247.5	186.4	146.0	179.0	195.2	374.0	52.6	283.8	523.9	343.6
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Portfolio investment assets (line 71):										
Revised	141.0	159.7	106.9	79.5	133.1	192.0	267.3	493.4	380.8	-284.3
Previously published	141.0	159.7	106.9	79.5	133.1	192.0	267.3	493.4	380.8	-284.3
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equity and investment fund shares (line 72):										
Revised	114.3	106.7	109.1	17.0	118.0	84.8	186.7	137.3	147.8	-38.6
Previously published	114.3	106.7	109.1	17.0	118.0	84.8	186.7	137.3	147.8	-38.6
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Debt securities (line 73):										
Revised	26.7	53.0	-2.2	62.6	15.1	107.2	80.6	356.0	233.0	-245.7
Previously published	26.7	53.0	-2.2	62.6	15.1	107.2	80.6	356.0	233.0	-245.7
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other investment assets (line 76):										
Revised	146.9	241.3	128.4	57.0	44.4	495.5	257.2	549.8	658.6	-381.8
Previously published	146.9	241.3	128.4	57.0	44.3	495.5	257.2	549.8	658.6	-381.8
Amount of revision	0.0	0.0	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Other equity (line 77):										
Revised	1.5	1.4	1.6	1.4	1.3	1.9	1.1	1.9	1.6	1.3
Previously published										
Amount of revision	1.5	1.4	1.6	1.4	1.3	1.9	1.1	1.9	1.6	1.3
Reclassification from loans to other equity	1.5	1.4	1.6	1.4	1.3	1.8	1.1	1.9	1.6	1.3
Newly available and revised source data	0.0	0.0	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Currency and deposits (line 78):										
Revised	n.a.	n.a.	n.a.	n.a.	51.3	240.4	82.9	154.0	375.1	123.5
Previously published	n.a.	n.a.	n.a.	n.a.	51.3	240.4	82.9	154.0	375.1	123.5
Amount of revision	n.a.	n.a.	n.a.	n.a.	0.0	0.0	0.0	0.0	0.0	0.0
Loans (line 79):										
Revised	n.a.	n.a.	n.a.	n.a.	-10.5	254.4	171.9	390.3	271.2	-502.8
Previously published	n.a.	n.a.	n.a.	n.a.	-9.3	256.2	173.0	392.3	272.8	-501.6
Amount of revision	n.a.	n.a.	n.a.	n.a.	-1.3	-1.8	-1.1	-1.9	-1.6	-1.3
Reclassification from loans to other equity	n.a.	n.a.	n.a.	n.a.	-1.3	-1.8	-1.1	-1.9	-1.6	-1.3
Newly available and revised source data	n.a.	n.a.	n.a.	n.a.	0.0	0.0	0.0	0.0	0.0	0.0
Net U.S. incurrence of liabilities excluding financial										
derivatives (line 91):										
Revised	765.2	1066.1	788.3	821.8	911.7	1600.9	1277.1	2120.5	2190.1	462.4
Previously published	765.2	1066.1	788.3	821.8	911.7	1600.9	1277.1	2120.5	2190.1	462.4
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Direct investment liabilities (line 92):										

 Table G. Revisions to Selected Financial-Account Transactions, 1999–2019—Continues

 [Billions of dollars]

	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008
Revised	312.4	349.1	172.5	111.1	117.1	213.6	142.3	298.5	346.6	341.1
Previously published	312.4	349.1	172.5	111.1	117.1	213.6	142.3	298.5	346.6	341.1
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Portfolio investment liabilities (line 95):										
Revised	278.7	442.0	431.5	504.2	550.2	867.3	832.0	1126.7	1156.6	523.7
Previously published	278.7	442.0	431.5	504.2	550.2	867.3	832.0	1126.7	1156.6	523.7
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Equity and investment fund shares (line 96):										
Revised	112.3	193.6	121.5	54.1	34.0	61.8	89.3	145.5	275.6	126.8
Previously published	112.3	193.6	121.5	54.1	34.0	61.8	89.3	145.5	275.6	126.8
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Debt securities (line 97):										
Revised	166.4	248.4	310.0	450.1	516.2	805.6	742.8	981.3	881.0	396.9
Previously published	166.4	248.4	310.0	450.1	516.2	805.6	742.8	981.3	881.0	396.9
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Other investment liabilities (line 100):										
Revised	174.1	275.0	184.4	206.6	244.4	519.9	302.7	695.3	686.9	-402.4
Previously published	174.1	275.0	184.4	206.6	244.4	519.9	302.7	695.3	686.9	-402.4
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Currency and deposits (line 102):										
Revised	n.a.	n.a.	n.a.	n.a.	30.8	131.5	-124.8	224.4	239.3	74.4
Previously published	n.a.	n.a.	n.a.	n.a.	30.8	131.5	-124.8	224.4	239.3	74.4
Amount of revision	n.a.	n.a.	n.a.	n.a.	0.0	0.0	0.0	0.0	0.0	0.0
Loans (line 103):										
Revised	n.a.	n.a.	n.a.	n.a.	214.5	386.4	415.8	465.2	427.0	-483.6
Previously published	n.a.	n.a.	n.a.	n.a.	214.5	386.4	415.8	465.2	427.0	-483.6
Amount of revision	n.a.	n.a.	n.a.	n.a.	0.0	0.0	0.0	0.0	0.0	0.0
Financial derivatives other than reserves, net transactions (line 107):										
Revised	n.a.	-29.7	-6.2	32.9						
Previously published	n.a.	-29.7	-6.2	32.9						
Amount of revision	n.a.	0.0	0.0	0.0						
Net lending (+) or net borrowing (-) from financial- account transactions (line 117):										
Revised	-238.6	-478.4	-402.0	-502.7	-540.6	-542.2	-714.1	-825.6	-632.8	-747.1
Previously published	-238.6	-478.4	-402.0	-502.7	-540.6	-542.2	-714.1	-825.6	-632.9	-747.1
Amount of revision	0.0	0.0	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)

#### Table G. Revisions to Selected Financial-Account Transactions, 1999–2019—Table Ends [Billions of dollars]

		Грп	lions of d	onarsj							
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Net U.S. acquisition of financial assets excluding											
financial derivatives (line 67):											
Revised	131.1	958.7	492.6	176.9	649.8	866.7	197.4	335.2	1188.2	359.0	440.8
Previously published	131.1	958.7	492.5	176.8	649.6	866.5	202.2	353.0	1167.4	310.8	426.9
Amount of revision	(*)	(*)	(*)	0.2	0.2	0.2	-4.8	-17.8	20.7	48.1	13.8
Direct investment assets (line 68):											
Revised	312.6	349.8	436.6	377.2	392.8	387.5	302.1	299.8	405.4	-151.3	188.5
Previously published	312.6	349.8	436.6	377.2	392.8	387.5	307.1	318.3	384.6	-78.5	197.7
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	-5.0	-18.5	20.8	-72.8	-9.2
Portfolio investment assets (line 71):											
Revised	375.9	199.6	85.4	248.8	481.3	582.7	160.4	36.3	569.4	335.3	46.6
Previously published	375.9	199.6	85.4	248.8	481.3	582.7	160.4	36.3	569.4	334.0	35.9
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	1.2	10.7
Equity and investment fund shares (line											
72):	(0.7	70.0	7.0	1010	207.4	404.6	106.0	24 5	120.0	454.0	101.2
Revised	63.7	79.2	7.0	104.0	287.4	431.6	196.9	21.7	139.9	171.3	-191.3
Previously published	63.7	79.2	7.0	104.0	287.4	431.6	196.9	21.7	139.9	194.1	-251.0
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-22.8	59.7
Debt securities (line 73):	242.2	120 5	70.4	1110	102.0	454.4	265	145	420.4	1610	227.0
Revised	312.2	120.5	78.4	144.8	193.9	151.1	-36.5	14.5	429.4	164.0	237.9
Previously published	312.2	120.5	78.4	144.8	193.9	151.1	-36.5	14.5	429.4	139.9	286.8
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	(*)	24.0	-49.0
Other investment assets (line 76):	600 T				004.0	00.0	0.7.0.0		0.15	4-0.0	0.01
Revised	-609.7	407.5	-45.3	-453.5	-221.2	-99.9	-258.8	-3.0	215.1	170.0	201.1
Previously published	-609.7	407.4	-45.3	-453.7	-221.4	-100.1	-259.0	-3.7	215.2	50.3	188.7
Amount of revision	(*)	(*)	(*)	0.2	0.2	0.2	0.1	0.7	-0.1	119.8	12.3
Other equity (line 77):											
Revised	1.6	1.9	1.7	2.2	2.0	2.1	2.1	1.7	1.5	1.3	1.4
Previously published											
Amount of revision	1.6	1.9	1.7	2.2	2.0	2.1	2.1	1.7	1.5	1.3	1.4
Reclassification from loans to other	1.6	1.9	1.7	2.1	2.0	2.0	2.1	1.7	1.5	1.3	1.3
equity											
Newly available and revised source	(*)	(*)	(*)	(*)	(*)	(*)	0.0	(*)	(*)	(*)	0.1
data											
Currency and deposits (line 78):	2045	150.0	00.0	524.0	107.0	1(0 5	101 5	01.0	470.4	1061	100.0
Revised	-394.5	150.2	-89.2	-521.9	-127.0	-160.5	-191.5	-91.0	173.4	106.1	132.6
Previously published	-394.5	150.2	-89.2	-521.9	-127.0	-160.5	-191.5	-91.3	169.2	71.8	106.2
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	4.1	34.3	26.4
Loans (line 79):	0450	0.40.0	00.4		1041	(10	(7.0	07.4			
Revised	-217.3	249.3	38.1	65.6	-106.1	64.3	-67.8	85.4	34.8	61.4	66.1
Previously published	-215.7	251.1	39.8	67.5	-104.3	66.2	-65.8	86.8	40.2	-22.4	81.4
Amount of revision	-1.6	-1.9	-1.7	-2.0	-1.9	-1.9	-2.0	-1.3	-5.4	83.9	-15.3
Reclassification from loans to other	-1.6	-1.9	-1.7	-2.1	-2.0	-2.0	-2.1	-1.7	-1.5	-1.3	-1.3
equity											
Newly available and revised source data	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.4	-3.9	85.2	-14.0
Net U.S. incurrence of liabilities excluding											
0											
financial derivatives (line 91): Revised	325.6	1391.0	983.5	632.0	1052.1	1109.4	503.5	706.7	1546.3	758.3	798.0
Previously published	325.6	1391.0	983.5	632.0	1052.1	1109.4	503.5	742.9	1546.5	735.6	798.0
				0.0					-2.7	22.7	
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	2.3	-36.2	-2.7	22.7	13.5
Direct investment liabilities (line 92):	1(11	264.0	2(25	250.2	200.1	251.0	<b>F11</b> 4	4744	2(7.0	2(1 5	251 (
Revised	161.1	264.0	263.5	250.3	288.1	251.9	511.4	474.4	367.0	261.5	351.6
Previously published	161.1	264.0	263.5	250.3	288.1	251.9	509.1	494.4	354.7	258.4	310.8
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	2.3	-20.1	12.3	3.1	40.8
Portfolio investment liabilities (line 95):	257.4	020 4	211.0	7470	F12.0	(07.6	212.0	224.2	700.0	202.4	100.0
Revised	357.4	820.4	311.6	747.0	512.0	697.6	213.9	231.3	790.8	303.1	180.0
Previously published	357.4	820.4	311.6	747.0	512.0	697.6	213.9	231.3	792.5	315.7	231.6
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-1.7	-12.6	-51.6
Equity and investment fund shares (line											1
96):	210.2	170.0	122.4	220.4	(2)(	154.2	107.2	120 7	140.0	156.0	2444
Revised	219.3	179.0	123.4	239.1	-62.6	154.3	-187.3	-139.7	149.6	156.9	-244.1
Previously published	219.3	179.0	123.4	239.1	-62.6	154.3	-187.3	-139.7	149.6	142.4	-226.8
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	14.5	-17.3
Debt securities (line 97):	100.1	( 1 1 -	100.0	FACA	FRA A	F 40.0	101.0	054.0	(11)	1100	1010
Revised	138.1	641.5	188.3	508.0	574.6	543.3	401.2	371.0	641.2	146.2	424.0
Previously published	138.1	641.5	188.3	508.0	574.6	543.3	401.2	371.0	642.9	173.3	458.4
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-0.1	-1.7	-27.1	-34.4
Other investment liabilities (line 100):											
Revised	-192.8	306.6	408.4	-365.3	251.9	160.0	-221.9	1.0	388.5	193.7	266.4
Previously published	-192.8	306.6	408.4	-365.3	251.9	160.0	-221.9	17.1	401.9	161.5	242.0
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-16.1	-13.4	32.2	24.3
Currency and deposits (line 102):											
Revised	-74.2	115.7	475.7	-246.0	202.8	61.1	35.1	-5.4	217.7	12.8	204.1
Previously published	-74.2	115.7	475.7	-246.0	202.8	61.1	35.1	18.7	217.8	32.3	196.4
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-24.1	-0.1	-19.5	7.7

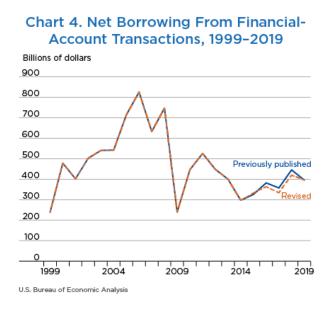
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Revised	-172.5	172.3	-84.8	-130.3	41.3	87.9	-265.0	0.5	156.4	165.0	52.4
Previously published	-172.5	172.3	-84.8	-130.3	41.3	87.9	-265.0	-7.6	168.9	114.1	35.7
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.1	-12.5	50.9	16.7
Financial derivatives other than reserves, net transactions (line 107):											
Revised	-44.8	-14.1	-35.0	7.1	2.2	-54.3	-27.0	7.8	24.0	-20.4	-38.3
Previously published	-44.8	-14.1	-35.0	7.1	2.2	-54.3	-27.0	7.8	24.0	-20.7	-38.4
Amount of revision	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	(*)
Net lending (+) or net borrowing (–) from financial-account transactions (line 117):											
Revised	-239.4	-446.4	-526.0	-448.0	-400.1	-297.1	-333.1	-363.6	-334.1	-419.7	-395.5
Previously published	-239.4	-446.4	-526.0	-448.2	-400.3	-297.3	-325.9	-382.0	-357.6	-445.5	-395.9
Amount of revision	(*)	(*)	(*)	0.2	0.2	0.2	-7.2	18.4	23.5	25.8	0.4

(\*) A nonzero value between -\$50,000,000 and \$50,000,000.

..... Not applicable

Note. Line numbers refer to ITA table 1.2 on BEA's Web site.

Revisions to net borrowing reflect the combined revisions to net U.S. acquisition of financial assets excluding financial derivatives, to net U.S. incurrence of liabilities excluding financial derivatives, and to net transactions in financial derivatives. The revised annual financial transactions for each of these major accounts are similar in size and direction of change to the previously published financial transactions.



### Net U.S. acquisition of financial assets excluding financial derivatives

Revisions to net U.S. transactions for financial assets excluding financial derivatives for 2001–2014 are small and reflect slight revisions to the net acquisition or liquidation of other investment assets. Net U.S. acquisition of financial assets was revised down for 2015 and 2016 and revised up for 2017–2019. The revisions for 2015–2019 mainly reflect (1) downward revisions to net acquisition of direct investment assets for 2015 and 2016, (2) an upward revision to net acquisition of direct investment assets for 2017, and (3) upward revisions to net acquisition of other investment and portfolio investment assets for 2019, which were partly offset by an upward revision to net acquisition of direct investment assets for 2019.

**Direct investment assets.** Net acquisition of direct investment assets was revised down for 2015–2016 and 2019, and up for 2017. Net withdrawal of direct investment assets was revised up for 2018. The revisions for 2016–2019 reflect newly available and revised source data from BEA quarterly and annual direct investment surveys. Revisions to 2015–2019 also reflect revised current-cost adjustments to direct investment income, which enter into net acquisition of direct investment assets as a component of reinvestment of earnings.

**Portfolio investment assets.** Net acquisition of portfolio investment assets (equity and debt securities) was revised down slightly for 2017 and revised up for 2018 and 2019. The largest revision was a \$10.7 billion upward revision for 2019. The revisions reflect newly available and revised source data from the TIC surveys of U.S. holdings of foreign securities.<sup>24</sup>

**Other investment assets.** Net acquisition of other investment assets (other equity, currency and deposits, loans, insurance technical reserves, and trade credit and advances) was revised up for 2001–2007, 2010, and 2018–2019, and revised down for 2017. Net liquidation of other investment assets was revised down for 2008–2009 and 2011–2016. The largest revision was a \$119.8 billion upward revision in net acquisition for 2018. Revisions for 2001–2015 reflect the incorporation of U.S. government transactions in other equity assets and loan assets that were not previously included in the ITAs. Revisions for 2016–2019 mainly reflect newly available and revised source data from the TIC surveys of U.S. claims on foreigners.

### Net U.S. incurrence of liabilities excluding financial derivatives

Net U.S. incurrence of liabilities excluding financial derivatives was revised up for 2015, 2018, and 2019 and revised down for 2016 and 2017. The revisions mainly reflect (1) an upward revision to net incurrence of direct investment liabilities for 2015, (2) downward revisions to net incurrence of other investment liabilities for 2017, and (3) a downward revision to net incurrence of other investment liabilities for 2017, and (4) upward revisions to net incurrence of other investment and direct investment liabilities for 2018 and 2019, which were partly offset by downward revisions to net incurrence of portfolio investment liabilities.

**Direct investment liabilities.** Net incurrence of direct investment liabilities was revised up for 2015 and 2017–2019, and down for 2016. The largest revision was a \$40.8 billion upward revision for 2019. The revisions mainly reflect newly available and revised source data from BEA's quarterly and annual direct investment surveys. Revisions to 2015 reflect revised current-cost adjustments to direct investment income, which enter into net incurrence of direct investment liabilities as a component of reinvestment of earnings.

**Portfolio investment liabilities.** Net incurrence of portfolio investment liabilities was revised down for 2016–2019. The largest revisions were downward revisions of \$12.6 billion for 2018 and \$51.6 billion for 2019. The revisions reflect newly available and revised source data from the TIC surveys of foreign holdings of U.S. securities.<sup>25</sup>

**Other investment liabilities.** Net incurrence of other investment liabilities was revised down for 2016 and 2017 and up for 2018 and 2019. The largest revisions were upward revisions of \$32.2 billion for 2018 and \$24.3 billion for 2019. The revisions reflect newly available and revised source data from the TIC surveys of U.S. liabilities to foreigners.<sup>26</sup>

### **Statistical discrepancy**

The statistical discrepancy is the difference between net acquisition of assets and net incurrence of liabilities in the financial account (including financial derivatives) less the difference between total credits and total debits recorded in the current and capital accounts. In principle, the combined deficit (or surplus) on recorded transactions in the current and capital accounts should equal net borrowing (or net lending) measured by recorded transactions in the financial account. In practice, however, they differ because of incomplete source data, gaps in coverage, and timing differences.

Table E presents revisions to the statistical discrepancy for 1999–2019. The largest revision was for 2017; that year the discrepancy was revised from \$63.1 billion to \$18.8 billion.

### Acknowledgments

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The following BEA staff contributed significantly to the update:

*Trade in goods:* Benjamin Kavanaugh, Marc Bouchard, Mai-Chi Hoang, and Christian Thieme.

*Trade in services and secondary income (current transfers):* Molly Garber, Ami Adjoh-Baliki, Shari Allen, Sarah Atkinson, Elye Bliss, Jeffrey Bogen, Laura Brokenbaugh, Edward Dozier III, C. Omar Kebbeh, Michelle Murillo, Ted Peck, David Stein, Rudy Telles Jr., and Bryan Williams.

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### Appendix A. Revisions to U.S. International Transactions - Annual—Continues

[Millions of dollars, quarters seasonally adjusted]

	Balance on good	ls and servi	ces	Balance on prin	mary incor	ne	Balance on seco	ondary inco	me
	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision
1999	-255,809	-258,617	-2,808	11,134	9,974	-1,160	-40,881	-40,777	104
2000	-369,686	-372,517	-2,831	18,069	14,632	-3,437	-49,003	-46,863	2,140
2001	-360,373	-361,511	-1,138	27,530	23,244	-4,286	-55,708	-56,953	-1,245
2002	-420,666	-418,955	1,711	22,665	17,506	-5,159	-54,507	-52,949	1,558
2003	-496,243	-493,890	2,353	34,716	29,254	-5,462	-59,571	-55,300	4,271
2004	-610,838	-609,883	955	53,906	46,583	-7,323	-75,614	-71,634	3,980
2005	-716,542	-714,245	2,297	53,898	44,186	-9,712	-84,887	-76,876	8,011
2006	-763,533	-761,716	1,817	26,902	15,974	-10,928	-71,149	-69,088	2,061
2007	-710,997	-705,375	5,622	85,005	64,356	-20,649	-90,665	-89,910	755
2008	-712,350	-708,726	3,624	129,649	112,019	-17,630	-102,312	-96,192	6,120
2009	-394,771	-383,774	10,997	115,160	115,539	379	-103,907	-100,496	3,411
2010	-503,087	-495,225	7,862	168,221	169,911	1,690	-104,261	-98,834	5,427
2011	-554,522	-549,699	4,823	211,084	202,431	-8,653	-107,047	-103,211	3,836
2012	-525,906	-537,408	-11,502	207,475	197,925	-9,550	-96,900	-90,134	6,766
2013	-446,829	-461,135	-14,306	205,977	195,520	-10,457	-93,643	-85,545	8,098
2014	-484,144	-489,584	-5,440	218,391	200,303	-18,088	-94,006	-83,978	10,028
2015	-491,261	-498,525	-7,264	203,608	185,376	-18,232	-112,848	-101,470	11,378
2016	-481,169	-502,982	-21,813	198,654	197,021	-1,633	-124,022	-110,716	13,306
2017	-513,791	-550,123	-36,332	225,799	257,793	31,994	-115,322	-109,272	6,050
2018	-579,937	-627,679	-47,742	253,985	251,174	-2,811	-117,284	-120,931	-3,647
2019	-576,865	-616,425	-39,560	256,997	236,344	-20,653	-138,923	-139,705	-782

#### Appendix A. Revisions to U.S. International Transactions - Annual—Table Ends

	Balance on c	urrent acco	unt	Balance on c	apital acco	ount	Net lending (+) or net borrowing (-) from financial- account transactions			
	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision	
1999	-288,365	-286,612	1,753	-4,176	-6,428	-2,252	-238,603	-238,603	0	
2000	-403,450	-401,918	1,532	-1	-4,217	-4,216	-478,392	-478,392	0	
2001	-389,689	-394,082	-4,393	13,198	12,170	-1,028	-402,037	-402,032	5	
2002	-450,797	-456,110	-5,313	-141	-3,825	-3,684	-502,673	-502,668	5	
2003	-518,744	-522,289	-3,545	-1,821	-8,499	-6,678	-540,586	-540,556	30	
2004	-631,591	-635,890	-4,299	3,049	-4,344	-7,393	-542,226	-542,220	6	
2005	-745,234	-749,232	-3,998	13,116	950	-12,166	-714,073	-714,059	14	
2006	-805,964	-816,646	-10,682	-1,788	-7,439	-5,651	-825,583	-825,567	16	
2007	-711,035	-736,550	-25,515	384	-6,057	-6,441	-632,850	-632,841	9	
2008	-681,389	-696,523	-15,134	6,010	-172	-6,182	-747,069	-747,053	16	
2009	-372,521	-379,729	-7,208	-140	-5,877	-5,737	-239,386	-239,379	7	
2010	-431,265	-432,009	-744	-157	-6,891	-6,734	-446,415	-446,381	34	
2011	-445,662	-455,302	-9,640	-1,186	-9,020	-7,834	-525,998	-525,972	26	
2012	-426,832	-418,115	8,717	6,904	931	-5,973	-448,205	-448,032	173	
2013	-348,801	-336,854	11,947	-412	-6,559	-6,147	-400,259	-400,093	166	
2014	-365,199	-367,819	-2,620	-45	-6,535	-6,490	-297,255	-297,076	179	
2015	-407,764	-407,355	409	-42	-7,940	-7,898	-325,948	-333,144	-7,196	
2016	-428,349	-394,865	33,484	-152	-6,606	-6,454	-382,042	-363,633	18,409	
2017	-439,646	-365,269	74,377	18,950	12,394	-6,556	-357,579	-334,095	23,484	
2018	-490,978	-449,693	41,285	3,235	-4,196	-7,431	-445,477	-419,724	25,753	
2019	-498,351	-480,226	18,125	-10	-6,244	-6,234	-395,906	-395,549	357	

[Millions of dollars, quarters seasonally adjusted]

(\*) Between zero and +/- 500,000

### Appendix B. Revisions to U.S. International Transactions - Quarterly—Continues ed]

[Millions of dollars, quart	ters seasonally	adjuste
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	Balance on good	Balance on prin	mary incor	ne	Balance on secondary income				
	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision
1999: Q1	-52,063	-52,634	-571	1,770	1,374	-396	-9,977	-10,149	-172
Q2	-60,884	-61,598	-714	2,891	2,577	-314	-9,378	-9,650	-272
Q3	-68,425	-69,298	-873	2,051	1,903	-148	-9,642	-9,607	35
Q4	-74,437	-75,090	-653	4,427	4,123	-304	-11,884	-11,371	513
•									
2000: Q1	-87,483	-88,171	-688	3,355	2,647	-708	-10,124	-9,936	188
Q2	-88,167	-89,579	-1,412	3,904	3,073	-831	-11,192	-11,297	-105
Q3	-94,515	-95,480	-965	2,467	1,548	-919	-11,920	-11,506	414
Q4	-99,521	-99,287	234	8,345	7,365	-980	-15,769	-14,124	1,645
								10.001	
2001: Q1	-97,314	-96,898	416	4,423	3,469	-954	-12,809	-13,291 -13,854	-482
Q2	-86,767	-87,800	-1,033	6,408	5,370	-1,038	-13,300	,	-554
Q3 Q4	-88,213 -88,079	-89,394 -87,415	-1,181 664	490 16,207	-620 15,023	-1,110 -1,184	-14,308 -15,292	-14,601 -15,206	-293 86
Q4	-00,079	-07,415	004	10,207	13,023	-1,104	-13,292	-13,200	00
2002: Q1	-93,340	-92,466	874	6,553	5,413	-1,140	-16,237	-14,681	1,556
Q2	-102,723	-102,488	235	1,867	689	-1,178	-12,436	-12,635	-199
Q3	-106,386	-105,913	473	5,210	3,776	-1,434	-12,189	-12,244	-55
Q4	-118,217	-118,090	127	9,040	7,632	-1,408	-13,643	-13,390	253
2003: Q1	-125,044	-123,459	1,585	5,032	3,672	-1,360	-15,490	-13,990	1,500
Q2	-122,778	-122,384	394	7,990	6,809	-1,181	-14,264	-13,367	897
Q3	-123,055	-122,872	183	7,647	6,282	-1,365	-14,635	-13,332	1,303
Q4	-125,366	-125,175	191	14,041	12,487	-1,554	-15,182	-14,611	571
2004: Q1	-135,951	-135,158	793	18,608	17,043	-1,565	-20,512	-18,080	2,432
Q2	-149,005	-150,348	-1,343	12,249	10,687	-1,562	-18,140	-17,791	349
Q3	-156,939	-156,097	842	14,822	12,844	-1,978	-17,744	-17,407	337
Q4	-168,943	-168,281	662	8,227	6,008	-2,219	-19,218	-18,355	863
2005: Q1	-167,417	-165,634	1,783	16,397	14,130	-2,267	-20,271	-17,536	2,735
Q2	-171,504	-171,639	-135	13,351	10,925	-2,426	-21,066	-20,064	1,002
Q3	-181,928	-181,376	552	15,796	13,092	-2,704	-20,830	-19,357	1,473
Q4	-195,693	-195,596	97	8,353	6,039	-2,314	-22,719	-19,919	2,800
L.	,	,		-,	-,	7-			,
2006: Q1	-191,672	-192,106	-434	8,833	6,330	-2,503	-14,930	-14,164	766
Q2	-191,220	-191,169	51	7,436	4,757	-2,679	-18,614	-18,489	125
Q3	-200,281	-199,284	997	4,012	1,499	-2,513	-20,498	-19,660	838
Q4	-180,360	-179,157	1,203	6,621	3,389	-3,232	-17,107	-16,775	332
2007: Q1	-178,676	-177,931	745	7,140	3,040	-4,100	-27,051	-24,680	2,371
Q2	-180,063	-179,322	741	12,566	7,531	-5,035	-20,589	-20,802	-213
Q3	-175,619	-174,713	906	26,959	21,545	-5,414	-20,968	-21,683	-715
Q4	-176,639	-173,409	3,230	38,340	32,240	-6,100	-22,059	-22,745	-686
2008: Q1	-185,764	-185,551	213	34,253	29,580	-4,673	-29,524	-26,100	3,424
Q2	-186,932		583	34,233	31,129	-4,073	-29,524	-24,013	888
Q2 Q3	-189,676	-189,449	227	39,923	35,821	-4,102	-25,116	-24,338	778
Q3 Q4	-149,978	-147,376	2,602	20,147	15,490	-4,657	-22,772	-21,741	1,031
ų.	11,,,,,	111,070	2,002	20)117	10,170	1,007	,// _		1,001
2009: Q1	-98,313	-94,771	3,542	22,655	21,620	-1,035	-23,553	-22,709	844
Q2	-83,464	-81,444	2,020	22,252	22,056	-196	-27,145	-25,681	1,464
Q3	-100,228	-98,547	1,681	36,093	36,888	795	-28,559	-28,044	515
Q4	-112,766	-109,012	3,754	34,160	34,975	815	-24,652	-24,063	589
2010: Q1	-119,519	-118,266	1,253	41,658	42,194	536	-29,032	-25,708	3,324
Q2	-130,900	-128,809	2,091	41,903	42,778	875	-24,438	-23,613	825
Q3	-131,561	-129,557	2,004	40,366	40,570	204	-26,108	-25,627	481
Q4	-121,106	-118,594	2,512	44,294	44,370	76	-24,683	-23,885	798
2011.01	127 100	125 041	2 1 4 0	47 701	46 700	012	20 50 6	20.026	220
2011: Q1	-137,189 -140,291	-135,041 -138,842	2,148 1,449	47,701 48,662	46,789 46,718	-912 -1,944	-28,506 -27,090	-28,836 -25,862	-330 1,228
Q2 Q3	-140,291 -134,599	-138,842	-71	48,662 55,165	46,718	-1,944 -2,569	-27,090	-25,862	430
Q3 Q4	-134,599	-134,670	1,297	59,555	56,329	-3,226	-26,165	-24,857	2,509
Q.1	172,773	111,140	1,477	5,555	30,329	5,220	-20,103	23,030	2,309
2012: Q1	-142,655	-144,840	-2,185	55,965	52,811	-3,154	-26,615	-24,052	2,563
Q2	-134,888	-136,728	-1,840	50,835	48,329	-2,506	-25,686	-23,428	2,258
Q3	-125,229	-127,977	-2,748	50,908	48,631	-2,277	-23,592	-22,252	1,340
Q4	-123,134	-127,863	-4,729	49,768	48,153	-1,615	-21,007	-20,402	605
2013: Q1	-115,417	-119,068	-3,651	47,204	45,308	-1,896	-22,441	-20,183	2,258
Q2	-114,590	-117,165	-2,575	50,805	48,579	-2,226	-24,432	-22,482	1,950
Q3	-112,888	-117,425	-4,537	54,259	51,420	-2,839	-24,950	-23,223	1,727
Q4	-103,934	-107,478	-3,544	53,709	50,213	-3,496	-21,821	-19,657	2,164

	Balance on goods and services			Balance on prin	mary incor	ne	Balance on secondary income		
	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision
2014: Q1	-120,543	-120,547	-4	54,918	50,664	-4,254	-22,944	-20,340	2,604
Q2	-122,263	-124,597	-2,334	53,143	48,387	-4,756	-14,453	-12,675	1,778
Q3	-117,593	-120,226	-2,633	59,169	54,283	-4,886	-27,536	-25,361	2,175
Q4	-123,745	-124,213	-468	51,161	46,969	-4,192	-29,072	-25,602	3,470
2015: Q1	-121,445	-125,743	-4,298	51,882	46,974	-4,908	-28,280	-24,574	3,706
Q2	-120,906	-122,091	-1,185	48,740	44,290	-4,450	-24,694	-22,702	1,992
Q3	-126,322	-127,450	-1,128	49,335	44,606	-4,729	-31,073	-27,922	3,151
Q4	-122,588	-123,241	-653	53,651	49,505	-4,146	-28,800	-26,271	2,529
2016: Q1	-119,793	-125,634	-5,841	45,374	44,770	-604	-32,175	-28,227	3,948
Q2	-118,566	-123,150	-4,584	48,496	45,803	-2,693	-28,662	-26,216	2,446
Q3	-117,645	-122,090	-4,445	46,367	46,817	450	-31,069	-28,103	2,966
Q4	-125,166	-132,108	-6,942	58,418	59,631	1,213	-32,116	-28,170	3,946
2017: Q1	-123,326	-134,050	-10,724	53,609	60,469	6,860	-23,854	-21,036	2,818
Q2	-129,618	-139,677	-10,059	49,606	58,241	8,635	-32,804	-30,983	1,821
Q3	-125,535	-131,422	-5,887	59,693	66,734	7,041	-27,979	-27,433	546
Q4	-135,311	-144,974	-9,663	62,890	72,349	9,459	-30,686	-29,820	866
2018: Q1	-138,855	-153,108	-14,253	66,372	70,187	3,815	-27,264	-27,918	-654
Q2	-130,230	-140,001	-9,771	62,829	64,494	1,665	-30,139	-29,678	461
Q3	-152,406	-163,424	-11,018	64,724	56,638	-8,086	-27,039	-29,473	-2,434
Q4	-158,445	-171,146	-12,701	60,059	59,855	-204	-32,841	-33,861	-1,020
2019: Q1	-145,237	-157,758	-12,521	57,039	53,298	-3,741	-36,180	-34,677	1,503
Q2	-152,210	-160,390	-8,180	66,769	59,467	-7,302	-32,632	-34,948	-2,316
Q3	-149,658	-158,423	-8,765	65,905	61,621	-4,284	-32,860	-33,556	-696
Q4	-129,759	-139,854	-10,095	67,283	61,958	-5,325	-37,251	-36,524	727

#### Appendix B. Revisions to U.S. International Transactions - Quarterly—Table Ends

	Balance on o	current acco	ount	Balance on	capital acc	ount	Net lending (+) or net borrowing (-) from financial- account transactions			
-	Previously published	Revised	Revision	Previously published	Revised	Revision	account tra Previously published	Revised	Revision	
1999: Q1	-60,841	-60,838	3	-7	-278	-271	-23,694	-23,694	0	
Q2	-68,085	-67,957	128	-1	-358	-357	-64,885	-64,885	0	
Q3	-76,889	-76,129	760	-3	-337	-334	-32,734	-32,734	0	
Q4	-82,546	-81,685	861	-4,165	-5,455	-1,290	-117,290	-117,290	0	
2000: Q1	-94,940	-94,772	168	(*)	-502	-502	-35,314	-35,314	0	
Q2	-96,866	-96,392	474	2	-355	-357	-139,423	-139,423	0	
Q3	-104,933	-104,474	459	-10	-811	-801	-160,400	-160,400	0	
Q4	-106,712	-106,279	433	6	-2,550	-2,556	-143,256	-143,256	0	
2001: Q1	-105,283	-107,136	-1,853	(*)	-90	-90	-114,955	-114,950	5	
Q2	-94,693	-95,251	-558	4	-126	-130	-120,619	-120,619	0	
Q3	-103,211	-103,435	-224	13,188	12,850	-338	-57,569	-57,569	0	
Q4	-86,499	-88,263	-1,764	6	-465	-471	-108,896	-108,896	0	
2002: Q1	-102,150	-102,608	-458	7	-2,146	-2,153	-88,703	-88,698	5	
Q2	-113,057	-114,669	-1,612	-2	-346	-344	-91,961	-91,961	0	
Q3	-112,893	-114,854	-1,961	-69	-371	-302	-161,771	-161,771	0	
Q4	-122,694	-123,975	-1,281	-77	-962	-885	-160,233	-160,233	0	
2003: Q1	-133,916	-135,362	-1,446	-82	-1,910	-1,828	-160,053	-160,053	0	
Q2	-128,659	-129,336	-677	-1,252	-2,891	-1,639	-62,159	-62,144	15	
Q3	-129,860	-130,105	-245	-492	-2,408	-1,916	-130,548	-130,548	0	
Q4	-126,316	-127,490	-1,174	5	-1,290	-1,295	-187,831	-187,816	15	
2004: Q1	-137,062	-136,989	73	-56	-2.883	-2,827	-107,801	-107,801	0	
Q2	-156,240	-156,109	131	(*)	-1,118	-1,118	-163,502	-163,502	0	
Q3	-159,019	-161,502	-2,483	3,173	1,801	-1,372	-107,200	-107,193	7	
Q4	-179,272	-181,291	-2,019	-68	-2,143	-2,075	-163,723	-163,723	0	
2005: Q1	-169,508	-170,824	-1,316	-2,160	-6,133	-3,973	-107,979	-107,979	0	
Q2	-179,354	-180,642	-1,288	-83	-1,931	-1,848	-85,705	-85,692	13	
Q3	-186,410	-188,193	-1,783	15,362	12,984	-2,378	-224,506	-224,506	0	
Q4	-209,961	-209,573	388	-3	-3,970	-3,967	-295,883	-295,883	0	
2006: Q1	-198,203	-199,506	-1,303	-1,220	-2,515	-1,295	-163,570	-163,554	16	
Q2	-202,347	-204,953	-2,606	-487	-1,845	-1,358	-201,915	-201,915	0	
Q3	-215,769	-218,442	-2,673	-2	-1,428	-1,426	-249,371	-249,371	0	
Q4	-189,644	-193,746	-4,102	-79	-1,651	-1,572	-210,726	-210,726	0	
2007: Q1	-197,842	-200,315	-2,473	0	-3,074	-3,074	-258,049	-258,040	9	
Q2	-187,344	-193,334	-5,990	443	-327	-770	-156,983	-156,983	0	
Q3	-168,722	-175,756	-7,034	-57	-930	-873	-89,726	-89,726	0	
Q4	-157,128	-167,144	-10,016	-2	-1,726	-1,724	-128,093	-128,093	0	
2008: Q1	-180,823	-182,284	-1,461	-8	-2,864	-2,856	-214,367	-214,359	8	
Q2	-175,923	-179,816	-3,893	-18	-896	-878	-160,172	-160,164	8	
Q3	-174,642	-178,194	-3,552	6,043	5,150	-893	-184,795	-184,795	0	
Q4	-150,002	-156,229	-6,227	-7	-1,562	-1,555	-187,735	-187,735	0	
2009: Q1	-95,670	-99,402	-3,732	-20	-951	-931	-16,117	-16,117	0	
Q2	-86,336	-87,089	-753	-29	-2,311	-2,282	-20,061	-20,054	7	
Q3	-91,013	-91,384	-371	-36	-1,359	-1,323	-38,861	-38,861	0	
Q4	-99,503	-101,854	-2,351	-56	-1,255	-1,199	-164,347	-164,347	0	
2010: Q1	-105,640	-103,034	2,606	-3	-3,168	-3,165	-79,102	-79,102	0	
Q2	-111,344	-111,736	-392	-2	-1,076	-1,074	-34,663	-34,656	7	
Q3	-115,299	-116,619	-1,320	-146	-1,171	-1,025	-238,472	-238,472	0	
Q4	-98,983	-100,621	-1,638	-7	-1,476	-1,469	-94,177	-94,151	26	
2011.01	115 047	_110.226	2 200	20	-1.005	1.000	200 742	_200 742	0	
2011: Q1 Q2	-115,847 -117,269	-119,236 -119,435	-3,389 -2,166	-29 -854	-1,695 -4,093	-1,666 -3,239	-209,742 -138,259	-209,742 -138,259	0	
Q2 Q3	-117,269	-119,435	-2,166	-854	-4,093	-3,239	-138,259 -165,911	-138,259	25	
Q3 Q4	-107,755	-109,771	-2,008	-300	-1,699	-1,234	-12,085	-12,085	0	
	207,700	_0,,,,1	_,010	5	1,000	2,000	12,000	12,000	Ŭ	
2012: Q1	-115,491	-113,896	1,595	-53	-2,047	-1,994	-258,914	-258,914	0	
Q2	-111,579	-109,987	1,592	-241	-1,794	-1,553	-53,226	-53,109	117	
Q3	-100,661	-98,850	1,811	-470	-1,525	-1,055	-1,628	-1,628	0	
Q4	-99,102	-95,382	3,720	7,668	6,297	-1,371	-134,437	-134,382	55	

[Millions of dollars, quarters seasonally adjusted]

-40 -227

-146

-1,671 -1,882

-1,462

-1,631 -1,655 -1,316 -47,980 -36,060 -141,943 -47,936 -35,979 -141,903

44 81 40

2013: Q1 Q2 Q3 -94,304 -90,791 -88,116 -90,293 -88,493

-84,691

4,011 2,298

3,425

	Balance on o	current acco	ount	Balance on	capital acc	ount	Net lending (+) or net borrowing (-) from financial- account transactions			
	Previously published	Revised	Revision	Previously published	Revised	Revision	Previously published	Revised	Revision	
Q4	-75,590	-73,377	2,213	(*)	-1,544	-1,544	-174,276	-174,276	0	
2014: Q1	-88,573	-90,219	-1,646	-43	-2,361	-2,318	-113,490	-113,490	0	
Q2	-85,907	-86,551	-644	-2	-1,298	-1,296	-82,758	-82,615	143	
Q3	-88,594	-88,671	-77	-1	-1,220	-1,219	-58,651	-58,651	0	
Q4	-102,125	-102,378	-253	(*)	-1,655	-1,655	-42,355	-42,320	35	
2015: Q1	-102,141	-99,045	3,096	-22	-2,999	-2,977	-121,328	-124,436	-3,108	
Q2	-98,045	-99,318	-1,273	-20	-1,266	-1,246	-134,301	-137,039	-2,738	
Q3	-109,188	-109,638	-450	-1	-2,184	-2,183	-36,347	-36,886	-539	
Q4	-98,390	-99,354	-964	0	-1,490	-1,490	-33,972	-34,782	-810	
2016: Q1	-112,435	-103,250	9,185	-58	-2,236	-2,178	-104,226	-84,791	19,435	
Q2	-103,316	-98,979	4,337	(*)	-1,078	-1,078	-17,016	-4,856	12,160	
Q3	-106,792	-98,931	7,861	-94	-1,352	-1,258	-197,610	-222,895	-25,285	
Q4	-105,806	-93,705	12,101	0	-1,940	-1,940	-63,190	-51,090	12,100	
2017: Q1	-104,295	-83,894	20,401	-58	-2,116	-2,058	-67,234	-70,674	-3,440	
Q2	-122,874	-102,359	20,515	-96	-1,999	-1,903	-151,704	-115,623	36,081	
Q3	-99,708	-86,234	13,474	19,144	18,213	-931	-116,317	-90,608	25,709	
Q4	-112,769	-92,782	19,987	-40	-1,703	-1,663	-22,324	-57,190	-34,866	
2018: Q1	-114,001	-96,587	17,414	-2	-1,406	-1,404	-93,376	-96,265	-2,889	
Q2	-107,311	-95,414	11,897	-5	-2,912	-2,907	-133,098	-103,970	29,128	
Q3	-125,739	-125,241	498	521	-455	-976	-57,381	-16,796	40,585	
Q4	-143,927	-132,452	11,475	2,721	576	-2,145	-161,621	-202,693	-41,072	
2019: Q1	-136,898	-126,616	10,282	0	-2,542	-2,542	-35,376	-95,175	-59,799	
Q2	-126,252	-127,691	-1,439	0	-848	-848	-212,323	-167,903	44,420	
Q3	-125,378	-121,594	3,784	-10	-835	-825	-76,417	-103,125	-26,708	
Q4	-109,822	-104,324	5,498	0	-2,019	-2,019	-71,790	-29,345	42,445	

(\*) Between zero and +/- 500,000

- 1. This article focuses primarily on the update to the ITAs. See Elena L. Nguyen and Erin M. Whitaker, "U.S. Net International Investment Position: First Quarter 2020, Year 2019, and Annual Update" in this issue of the *Survey of Current Business* for details on the annual update of the IIP accounts. Several of the updates to the ITAs also affect the detailed annual trade in services statistics. Further details on updates to the most detailed annual trade in services statistics will be included in an October *Survey* article.
- 2. Presentational changes that affect all of the accounts are discussed in the box "Other Changes in Presentation."
- 3. For a comparison of these revisions with past annual revisions, see the box "2020 Annual Update in Historical Context".
- 4. For information on improvements introduced during the first two phases of the trade in services initiative, see Elye Bliss "Preview of the 2020 Annual Update of the International Economic Accounts" *Survey of Current Business* 100 (April 2020).
- 5. BEA indistinguishably includes a partial measure of trade in manufacturing services under technical, trade-related, and other business services in the other business services major category. BEA will replace the "n.a." in this new major category with values when it is able to produce a more reliable and comprehensive estimate of manufacturing services on inputs owned by others. At the same time, BEA will adjust its trade in goods measures to remove goods sent or received from abroad for processing without a change in ownership (and the return of the resulting processed goods). At present, these goods are not separately identifiable in U.S. customs data, meaning all exports from and imports into the United States appear as if there is a change in economic ownership when the goods cross the U.S. border. In the absence of a direct means to measure the value of goods crossing the U.S. border without a change in economic ownership, BEA is researching methods to estimate their value indirectly and remove them from the goods trade statistics so that these types of global manufacturing arrangements are reflected, in accordance with international guidelines, as only involving services trade.
- 6. The construction subcategory was shown in international services table 2.1, but it was not shown separately in ITA table 3.1. In ITA table 3.1, it was included in technical, trade-related, and other business services.
- 7. Transactions related to intellectual property that fall outside the types presented in chart 1 continue to be classified in charges for the use of intellectual property, regardless of the rights conveyed with the transaction.
- 8. These changes were made to align with international guidelines, which, for architectural, engineering, or mining services, do not prescribe the removal of goods exports related to these services from the statistics and which do not prescribe the reporting of foreign expenses. For construction services, however, related goods exports continue to be removed and foreign expenses continue to be included in construction imports.
- 9. The 52 newly added countries and areas include Austria, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Greece, Hungary, Ireland, Latvia, Lithuania, Malta, Norway, Poland, Portugal, Romania, Russia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Chile, Colombia, Costa Rica, El Salvador, Guatemala, Honduras, Nicaragua, Panama, Peru, Bermuda, Dominican Republic, United Kingdom Islands, Caribbean, Morocco, Nigeria, Bahrain, Israel, Jordan, Oman, Saudi Arabia, Brunei, Indonesia, Malaysia, New Zealand, Philippines, Thailand, Vietnam, and CAFTA-DR (Dominican Republic-Central America FTA) countries.
- 10. The most recent report was in Shari A. Allen, Thomas Anderson, Alexis N. Grimm, and Michael Mann "U.S. International Services: Trade in Services in 2018 and Services Through Affiliates in 2017," Survey of Current Business 99 (October 2019).
- 11. Recent consultation with responding airline operators suggested that the survey data did not entirely align with the interline settlements they were intended to capture.
- 12. Port services include cargo handling, storage, warehousing, and other related transport services.
- 13. Statistics for Canada and Mexico are based on data provided to BEA by Statistics Canada and the Bank of Mexico. Statistics for travel by cruise are based on data from DHS and several private sources.
- 14. Baseline estimates of average expenditures using data from the SIAT are adjusted to account for particular limitations often faced by expenditure surveys, including underreported spending.
- 15. For more information on the 2014 comprehensive restructuring, see Jeffrey R. Bogen, Mai-Chi Hoang, Kristy L. Howell, and Erin M. Whitaker, "Comprehensive Restructuring and Annual Revision of the U.S. International Transactions Accounts," *Survey* 94 (July 2014).
- 16. For instance, the emergency room expenses of a traveler whose primary purpose for travel is hiking are not included in health-related travel; these expenses are recorded in other personal travel.
- 17. As with average expenditures for the subaggregate, average health-related travel expenditures are adjusted to account for underreporting and other survey limitations.
- 18. The July 30, 2020 annual update of the NIPAs will incorporate the ITA FISIM estimate for data beginning in 2015. The ITA FISIM estimate will be incorporated for earlier years in a future annual update. For more information, refer to the box " Preview of the 2020 NIPA Annual Update" in the May 2020 *SCB* article "GDP and the Economy Advance Estimates for the First Quarter of 2020".
- 19. See Jeffrey R. Bogen and Jessica M. Hanson, "Annual Revision of the U.S. International Transactions Accounts" *Survey* 94 (July 2012) and Christopher L. Bach, "Annual Revision of the U.S. International Accounts, 1991–2004" *Survey* 85 (July 2005): 64–66.
- 20. The future goods and services involved in the entitlement are to be interpreted broadly and may include services provided to an employer by an employee.
- 21. This change also impacts the IIP accounts; loan asset positions are reclassified as other equity positions beginning with statistics for 1976.

- 22. The current-cost adjustment to direct investment income substitutes economic depreciation charges for the financial-accounting-based depreciation and depletion charges against equity income that are reported on BEA surveys of direct investment. These adjustments put depreciation on a replacement-cost basis and more closely align parents' claims on affiliates' income with charges against income in the same period, as required by economic accounting principles.
- 23. Insurance-related transfers are derived from insurance premiums and losses collected on BEA's survey.
- 24. Revised data from the following TIC surveys were incorporated: (1) Aggregate Holdings of Long-Term Securities by U.S. and Foreign Residents (foreign securities), (2) Report of U.S. Ownership of Foreign Securities, Including Selected Money Market Instruments, and (3) Reports by Financial Institutions of Liabilities to, and Claims on, Foreign Residents by U.S. Residents (claims).
- 25. Revised data from the following TIC surveys were incorporated: (1) Aggregate Holdings of Long-Term Securities by U.S. and Foreign Residents (U.S. securities), (2) Foreign-residents' Holdings of U.S. Securities, including Selected Money Market Instruments, and (3) Reports by Financial Institutions of Liabilities to, and Claims on, Foreign Residents by U.S. Residents (liabilities).
- 26. Revised data from the following TIC surveys were incorporated: (1) Reports by Financial Institutions of Liabilities to, and Claims on, Foreign Residents by U.S. Residents (liabilities) and (2) Reports of Liabilities to, and Claims on, Unaffiliated Foreign Residents by U.S. Resident Nonfinancial Institutions (liabilities).



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