

# Overview of the proposed main changes introduced in the revised CPC

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## Introduction

1. The Central Product Classification (CPC) constitutes a complete product classification covering all goods and services. The primary purpose of CPC is to classify the goods and services that are the result of production in any economy.
2. The United Nations Committee of Experts of International Statistical Classification (UNCEISC), following endorsement by the Statistical Commission at its fifty-second session in 2021, established a task team to revise the Central Product Classification (CPC)<sup>1</sup>. The task team comprises experts on statistical classifications and subject matter experts on, inter alia, national accounts, environmental accounts, and trade statistics, to ensure that the classification supports the international statistical standards. Regular virtual meetings of the task team on the revision of CPC were held from 2021 to 2023, along with the use of a wiki to advance the discussion and resolution of the issues for the revision of CPC. In some instances, a subset of subject-matter experts from the task team met to develop and refine proposals that were later presented to the full task team. Ultimately, the task team agreed to a number of proposals for changes in CPC. The revised CPC will be finalized and submitted to the Statistical Commission at its fifty-fifth session, in 2024.
3. This paper provides an overview of the main changes that were introduced in the revised CPC. It is not a comprehensive list of changes which will be made available at a later stage together with the finalized CPC Ver. 3.0 structure.

## Definitions of goods, services and products

4. Products where the information embedded in the product is the essential component or are characterized as intellectual products are considered neither as good or services in CPC Ver.2.1. 2008 SNA and CPC Ver. 2.1. use distinct terms to describe these similar concepts. They do differ, however, as the SNA term focuses on products where the information embedded in the product is the essential component (“knowledge-capturing products”), while the CPC refers to products that do not technically meet the requirement of either a good or a service (“other products”). There is considerable overlap between the two, as these “information” products are often the most difficult to conceptualize, and the differing terminology has led to some confusion. CPC Ver. 2.1 acknowledges the overlap between the terms, but does not specify how they differ in scope or how they relate, nor does it provide an exhaustive list of such products.
5. The main change of the revised CPC is as follows: First, the concept of knowledge capturing products defined in the 2008 SNA was introduced in revised CPC, as follows:

**Knowledge-capturing products** concern the provision, storage, communication and dissemination of information, advice and entertainment in such a way that the consuming unit

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<sup>1</sup> See decision 52/113 of E/2021/24 E/CN.3/2021/30 available at [https://unstats.un.org/UNSDWebsite/statcom/session\\_52/documents/2021-30-FinalReport-E.pdf](https://unstats.un.org/UNSDWebsite/statcom/session_52/documents/2021-30-FinalReport-E.pdf)

can access the knowledge repeatedly. The industries that produce the products are those concerned with the provision, storage, communication and dissemination of information, advice and entertainment in the broadest sense of those terms including the production of general or specialized information, news, consultancy reports, computer programs, movies, music, etc. The outputs of these industries, over which ownership rights may be established, are often stored on physical objects (whether on paper or on electronic media) that can be traded like ordinary goods. They have many of the characteristics of goods in that ownership rights over these products can be established and they can be used repeatedly. Whether characterized as goods or services, these products possess the essential common characteristic that they can be produced by one unit and supplied to another, thus making possible division of labour and the emergence of markets (2008 SNA, para. 6.22).

6. The introductory text of CPC will be adjusted to introduce the above-mentioned definition of knowledge capturing product, noting that the objective was not to create a third category of products but rather to clarify the characteristics of these products. The categorization of products into two categories remains, i.e., goods and services, and knowledge capturing products does not constitute a third category of products.

7. Sections 0 to 4 of CPC continued to be defined in terms of headings of the Harmonized System, that is, physical transportable goods, and the rest of the products remain in Sections 5 to 9.

### Alignment with other international statistical classifications

8. One of the key themes of the updating the CPC structure is to improve its alignments with other international statistical classifications, including: the International Standard of Industrial Classification of Economic Activities (ISIC) Revision 5; Harmonized Systems (HS) 2022; Standard International Energy Product Classification (SIEC); 2016 Frascati Field of Science classification; International Standard Classification of Education (ISCED) 2011, and FAO nomenclature and data collection products.

9. Changes to CPC to improve its alignment with FAO nomenclature and data collection products and HS 2022 mainly involved more detailed breakdowns mostly at the five-digit level for forestry products, fisheries, fertilizers and pesticides in CPC divisions 01/03/04 and 31/32/24, and for new products defined in HS 2020 in CPC Sections 2, 3 and 4.

10. Significant structure changes below the 2-digit level of CPC Division 81 (Research and Development) improved the alignment of CPC with the 2016 Frascati Field of Science classification. It discontinues the current CPC Ver 2.1 distinctions between basic, applied, and experimental development research services at the 4-digit class level. The 4-digit level instead becomes where subject matter is distinguished, e.g., natural sciences, engineering, technology, medical and health sciences, etc. The 5-digit subclass further breaks down the subject matter, e.g., the 4-digit research and development services in technology is further divided into environmental biotechnology, industrial biotechnology, nanotechnology, and other technology at the 5-digit level.

11. CPC Division 92 on education services was updated to align with the structure and definitional content of ISCED 11 and the new structure of ISIC Rev.5. Key changes include adding a class and subclass

for early childhood development under a new group for early childhood and pre-primary education services, new subclasses under tertiary education services and various title changes.

12. Changes of CPC to improve its harmonization with SIEC mainly involved splitting classes and additional breakdowns at the 5-digit level of the relevant CPC classes on coal, coal products, coal gases, peat, petroleum and crude oils and natural gas liquids.

### Intermediation service activities

13. Intermediation activities have increased enormously due to the technological advances through digital platforms. The new ISIC Rev 5 introduces the definition of (non-financial) intermediation service activities and creates separate groups or classes for intermediation services in the same divisions where the underlying goods and services are produced and where delivery is a significant component of the underlying good or service.

14. The treatment of (non-financial) intermediation services in CPC is different from ISIC, in that a product perspective emphasizes the intrinsic nature of the product. In this case, intermediation is the intrinsic product, regardless of the underlying good or service being intermediated. In the revised CPC, all (non-financial) intermediation services are consolidated under Division 85 “Support services” in four new Groups in the revised CPC.

- Group 855 - Intermediation services on goods
- Group 856 - Intermediation services for accommodation, food and beverage, transport and electricity, gas and water distribution services
- Group 857 – Intermediation for community, social and personal services
- Group 858 – Other intermediation services

### Financial services

15. In recent years, the use of digital technologies has transformed the global economy to the extent that the statistics produced to aid in measuring and understanding economic performance need to be adapted and updated to reflect the rapid rate of change. The use of new technology in the financial sector is particularly prevalent. The revised introductory text of CPC will address and define “Fintech” and offer a general approach for applying the relevant classification criteria. The scope of financial services in CPC will be expanded to include Fintech services by adding new categories (e.g., new CPC subclass 71594 on digital payment services) and by updating explanatory notes (e.g., inclusion of robo-advisory services in CPC subclasses 71530/71640/71591; insure-techs in groups 713/714).

16. Other changes on financial services include splitting the CPC Ver.2.1. class 7113 credit granting-services into two new classes CPC Ver.3 7113 non-business credit-grant services and CPC Ver.3 7115 business credit granting services, and introduce new subclasses under CPC Ver. class 7115 to better aligned with the new ISIC Class 6491-6495. CPC Ver.2.1. group (712) investment bank services are deleted, and these services are classified into appropriate subclasses in CPC Ver.3.1. classes 7115 and 7119.

### Data

17. The updated version of the SNA incorporate data into the SNA production and asset boundary, and explicitly considers data as the output of a productive activity and a separately identified intellectual

property product in the updated version of the SNA, due for publishing in 2025. As a result, the revised CPC has been updated to reflect such changes.

18. First, a definition for data in the CPC was agreed upon as the “Original compilations of information content organized for retrieval and consultation, produced by accessing and observing phenomena”. Based on this definition, a new group 837 “Data and data compilation” consisting of two classes – 8371 “data” and 8372 “compilation services of data)—was created in the revised CPC. All relevant classes and subclasses containing data and the services used to create data in CPC Ver 2.1 will be moved to this newly created group 837. In addition, the language in some data-relevant categories would be updated to better align with definitions used in other manuals and guidance notes. Explanatory notes will clarify that data products are independent from output that is being produced using the data. Other classes determined not to be data so will remain separate, e.g., “Market research and public opinion polling services.”

### Cloud Computing and Artificial Intelligence

19. Cloud computing services consist of computing, data storage, software, and related IT services accessed remotely over a network, supplied on demand and with measured resource usage. ISIC Rev.5 classified activities of providing such services in the newly created Group 631 in “Computing infrastructure, data processing, hosting, and related services.” To reflect cloud computing services in CPC, the explanatory notes of class 8315 “Hosting and information technology (IT) infrastructure provisioning services”, subclasses 83152 “application service provisioning” and 83159 “other hosting and IT provisioning services” will be revised to add reference to the respective cloud computing services including Infrastructure-as-a-services (IaaS), Platform as-a-service (PaaS), Function as-a-service (FaaS) and Software as-a-services (SaaS).

20. The revision process also reviewed product areas on artificial intelligence (AI). The explanatory notes on relevant existing categories, such as subclasses 83152 “application software provision” and 84392 “On-line software” will be revised to explicitly mention inclusion of AI for such categories. However, no new classes for AI will be created in CPC because of the increasingly ubiquitous nature of its application in software products.

### Environmental services

21. To better align with the changes in ISIC and to reflect the growing prominence of environmental services, the revised CPC made the following changes:

- Create a new class 9114 “public administrative services related to the provision on environmental services”
- Create a new class 9444 “Treatment of air pollution services”
- Create a new class 9445 “Carbon capture and storage services”
- Adjust the explanatory notes on class 8597 “Landscape care and maintenance services” to reflect inclusion of management and restoration services of ecosystem and biodiversity
- Create new subclasses under 5465 “Insulation services” to separately classify noise or vibration insulation services and Thermal insulation services.

## Way forward

22. Following this global consultation and based on its outcomes, the structure of CPC Ver 3.0 will be submitted to the United Nations Statistical Commission for endorsement at its 55th session in March 2024. The task team will continue its work to finalize the explanatory notes and develop correspondence tables and expansions for CPC Ver. 3.

## Annex: List of changes introduced in the revised CPC

The typology of classification item changes of the Generic Statistical Information Model (GSIM) is used to document changes between CPC Ver.2.1 and CPC Ver. 3.0. Table 1 shows descriptions of GSIM type of changes. Table 2 documents a list of changes introduced in CPC Ver. 3.0.

Table 1. Typology of classification item changes of GSIM

GSIM Type	GSIM Note
RC - REAL CHANGE	Real change stands for changes in meaning of a classification item, whether or not accompanied by changes in naming and/or coding.
RC1 - DELETION	An item expires, while its denotation reduces to zero; it does not proceed as (part of the) denotation of one or more other (existing) items.
RC2 - CREATION	The mirror image of deletion: an item emerges, while its denotation is not (part of) the denotation of one or more existing items.
RC3 - COMBINATION	
RC3.1 - <i>Merger</i>	Two or more items expire, while their denotations proceed in one emerging item.
RC3.2 - <i>Take-over</i>	An item expires, while its denotation proceeds as part of the denotation of another item, which continues its existence.
RC4 - DECOMPOSITION	
RC4.1 - <i>Breakdown</i>	The mirror image of merger: an item expires, while its denotation is distributed over and proceeds in two or more emerging items.
RC4.2 - <i>Split off</i>	The mirror image of take-over: an item continues to exist, while part of its denotation moves to another (emerging) item.
RC5 - TRANSFER	Part of the denotation of an item moves to another (existing) item:
	1. The situation pictured is the most simple of a number of situations, in which more items may be involved in the relationship between the old and new structure.
	2. "Transfer" can also be applied at higher levels of a classification. In such cases the part of the denotation that moves (to another (existing) item) corresponds to an item at the lower level:
VC - VIRTUAL CHANGE	Where real change stands for changes in meaning or scope, whether or not accompanied by changes in naming (title and definition) and/or coding, virtual change stands for changes in coding and/or naming, while the meaning of the classification item remains the same.

	Code change and name change do not result in border/scope changes of the classification item.
VC1 - CODE CHANGE	A classification item expires, while its denotation proceeds as the denotation of an emerging classification item. <i>Note from GSIM: Strictly speaking, this heading is not correct, because different codes denote different Classification Items.</i>
	In fact, for a code change to be part of virtual change, the code of a Classification Item changes, while its denotation (including its borders and scope) remains the same.
VC2 - NAME CHANGE	The name (title or definition) of a classification item changes, while its denotation (including its borders and scope) remains the same.
	Note that not all changes in (the wording of) definitions imply changes in meaning. Indeed, changes which "merely" intend to enhance the clarity of a title and/or definition, or to further operationalise a definition on the basis of situations encountered in practice, do not affect the meaning of a classification item. The same goes for extending a Classification Index or case law.
NC- NOTIFICATION CHANGE	A classification item stays the same while changes are made at lower levels without change in the scope that item. This helps users of a particular classification item level (usually higher levels of the classification) know that changes happened at the lowest level, so it would be interesting or important to verify (using the correspondence table for example).

Table 2. List of changes introduced in CPC Ver. 3.0

CPC 3.0 Code	CPC 3.0 Title	Type of change
0311	Roundwood of coniferous wood	VC2 - NAME CHANGE
03111	Roundwood of coniferous wood, sawlogs and veneer logs	RC4.1 - Breakdown
03112	Roundwood of coniferous wood, Pulpwood and wood for wood-based panels	RC4.1 - Breakdown
0312	Roundwood of non-coniferous wood	VC2 - NAME CHANGE
03121	Roundwood of non-coniferous wood, Sawlogs and veneer logs	RC4.1 - Breakdown
03122	Roundwood of non-coniferous wood, Pulpwood and wood for wood-based panels	RC4.1 - Breakdown
03231	wild edible nuts	RC4.1 - Breakdown
03232	wild edible mushrooms	RC4.1 - Breakdown
03233	wild edible truffles	RC4.1 - Breakdown
03234	wild edible berries	RC4.1 - Breakdown
03239	other wild edible edible products n.e.c	RC4.1 - Breakdown
04	Fish, crustaceans, molluscs and other aquatic invertebrates products	VC2 - NAME CHANGE
0426	Other pelagic fish (excluding tunas, skipjack, or stripe-bellied bonito), live, fresh or chilled	VC2 - NAME CHANGE
04261	Other wild pelagic fish (excluding tunas, skipjack, or stripe-bellied bonito), live, fresh or chilled	VC2 - NAME CHANGE
04262	Other farmed pelagic fish (excluding tunas, skipjack, or stripe-bellied bonito), live, fresh or chilled	VC2 - NAME CHANGE

110	Coal and peat	NC - NOTIFICATION CHANGE
11011	Anthracite	RC4.1 - Breakdown
11012	Bituminous Coal	RC4.1 - Breakdown
11012.1	Coking coal	RC2.1 - CREATION (extension)
11012.2	Other Bituminous Coal	RC2.1 - CREATION (extension)
1103	Brown coal	NC - NOTIFICATION CHANGE
11031	Sub-bituminous coal	RC4.1 - Breakdown
11032	Lignite	RC4.1 - Breakdown
1105	Peat, whether or not agglomerated	VC2 - NAME CHANGE
11051	Peat	RC4.1 - Breakdown
11052	Peat briquettes	RC4.1 - Breakdown
120	Crude petroleum and natural gas	NC - NOTIFICATION CHANGE
12011	Crude oil	RC4.1 - Breakdown
12012	Petroleum oils and oils obtained from bituminous minerals	RC4.1 - Breakdown
1720	Coal gas, water gas, producer gas and similar gases, other than petroleum gases and other gaseous hydrocarbons	NC - NOTIFICATION CHANGE
17201	Coke oven gas	RC4.1 - Breakdown
17202	Gas works gas (and other manufactured gases for distribution)	RC4.1 - Breakdown
17203	Recovered gases	RC4.1 - Breakdown
17203.1	Blast furnace gas	RC2.1 - CREATION (extension)
17203.2	Basic oxygen steel furnace gas	RC2.1 - CREATION (extension)
17203.9	Other recovered gases	RC2.1 - CREATION (extension)
21216	Other pelagic fish (excluding tunas, skipjack, or stripe-bellied bonito), frozen	VC2 - NAME CHANGE
23998	Meatless meat and meat substitutes	RC4.1 - Breakdown
2442	Milk from non-animal origin	RC4.1 - Breakdown
24421	Coconut milk	RC4.1 - Breakdown
24422	Almond milk	RC4.1 - Breakdown
24423	Soy milk	RC4.1 - Breakdown

24424	Rice milk	RC4.1 - Breakdown
24425	Oat milk	RC4.1 - Breakdown
24429	Other non-animal milk	RC4.1 - Breakdown
24491	Non-alcoholic wine	RC4.1 - Breakdown
24492	Non-alcoholic beer	RC4.1 - Breakdown
24499	Other non-alcoholic caloric beverages, n.e.c.	RC4.1 - Breakdown
25090	Other manufactured tobacco and manufactured tobacco substitutes; "homogenized" or "reconstituted" tobacco; tobacco extracts and essences	RC4.1 - Breakdown
25091	Manufactured tobacco	RC4.1 - Breakdown
25092	Products containing tobacco	RC4.1 - Breakdown
3132	Hoopwood; split poles; piles, pickets and stakes of wood, pointed but not sawn lengthwise; wooden sticks, roughly trimmed but not turned, bent or otherwise worked, suitable for the manufacture of walking-sticks, umbrellas, tool handles or the like; chipwood and the like	VC2 - NAME CHANGE
31320	Hoopwood; split poles; piles, pickets and stakes of wood, pointed but not sawn lengthwise; wooden sticks, roughly trimmed but not turned, bent or otherwise worked, suitable for the manufacture of walking-sticks, umbrellas, tool handles or the like; chipwood and the like	VC2 - NAME CHANGE
31411	Plywood consisting solely of sheets, with both outer plies of coniferous wood	VC2 - NAME CHANGE
31412	Plywood consisting solely of sheets, with at least one outer ply of tropical wood	VC2 - NAME CHANGE
31413	Plywood consisting solely of sheets, with at least one outer ply of non-coniferous wood other than tropical	RC4.1 - Breakdown
31421	Veneered panels and similar laminated wood, with both outer plies of coniferous wood	VC2 - NAME CHANGE
31422	Veneered panels and similar laminated wood, with at least one outer ply of tropical wood	VC2 - NAME CHANGE
31423	Veneered panels and similar laminated wood, with at least one outer ply of non-coniferous wood	RC4.1 - Breakdown
31431	Particle board of wood	VC2 - NAME CHANGE
31433	Particle board of ligno-cellulosic material other than wood (flax, bagasse, bamboo)	RC4.1 - Breakdown
31439	Other particle boards of wood (e.g. waferboard)	VC2 - NAME CHANGE
31512	Veneer sheets and sheets for plywood and other wood sawn lengthwise, sliced or peeled, of a thickness not exceeding 6 mm, of tropical non-coniferous wood	VC2 - NAME CHANGE
31513	Veneer sheets and sheets for plywood and other wood sawn lengthwise, sliced or peeled, of a thickness not exceeding 6 mm, of other non-coniferous wood	RC4.1 - Breakdown
3161	Cellular board	RC4.1 - Breakdown
31610	Cellular board	RC4.1 - Breakdown
3162	Builder's joinery and carpentry of wood	RC4.1 - Breakdown
31621	Windows, French-windows and their frames made out of wood	RC4.1 - Breakdown
31622	Doors and their frames and thresholds made out of wood	RC4.1 - Breakdown
31623	Shuttering for concrete constructional work made out of wood	RC4.1 - Breakdown
31624	Shingles and shakes made out of wood	RC4.1 - Breakdown
31625	Posts and beams, other than Engineered structural timber products made out of wood	RC4.1 - Breakdown
31626	Assembled flooring panels made out of wood	RC4.1 - Breakdown



31627	Engineered structural timber products	RC4.1 - Breakdown
31629	Other builder's joinery and carpentry of wood and bamboo	RC4.1 - Breakdown
31701	Packing cases, boxes, crates, drums and similar packings, of wood; cable-drums of wood	RC4.1 - Breakdown
31702	Pallets, box pallets and other load boards, of wood; pallet collars of wood	RC4.1 - Breakdown
31703	Casks, barrels, vats, tubs and other coopers' products and parts thereof, of wood, including staves	RC4.1 - Breakdown
31709	Other wooden wrapping and packaging material	RC4.1 - Breakdown
32113	Mechanical wood pulp; semi-chemical wood pulp	VC2 - NAME CHANGE
32114	Pulps of fibres derived from recovered (waste and scrap) paper or paperboard or of other fibrous cellulosic material	RC4.1 - Breakdown
3212	Newsprint and other uncoated paper and paperboard of a kind used for writing, printing or other graphic purposes, and non perforated punch cards and punch tape paper	VC2 - NAME CHANGE
32123	Paper and paperboard of a kind used as a base for photo-sensitive, heat-sensitive or electro-sensitive paper or paperboard	RC4.1 - Breakdown
32124	Wallpaper base	RC4.1 - Breakdown
32125	Uncoated graphic paper and paperboard, mechanical	RC4.1 - Breakdown
32129	Other uncoated graphic paper and paperboard, wood free	RC4.2 - Split off
331	Coke and semi-coke of coal, of lignite or of peat; retort carbon	NC - NOTIFICATION CHANGE
33100.1	Coke oven coke	RC2.1 - CREATION (extension)
3311	Coke and semi-coke of coal, or of lignite; retort carbon	RC4.1 - Breakdown
33110	Coke and semi-coke of coal, or of lignite, retort carbon	RC4.1 - Breakdown
33110.2	Gas coke	RC2.1 - CREATION (extension)
3312	Coke and semi-coke of peat	RC4.1 - Breakdown
33120.3	Coke breeze	RC2.1 - CREATION (extension)
33130.4	Semi cokes	RC2.1 - CREATION (extension)
332	Tar distilled from coal, from lignite or from peat, and other mineral tars	NC - NOTIFICATION CHANGE
3321	Tar distilled from coal, from lignite, and other mineral tars	RC4.1 - Breakdown
33210	Tar distilled from coal, from lignite, and other mineral tars	RC4.1 - Breakdown
3322	Tar distilled from peat	RC4.1 - Breakdown
33220	Tar distilled from peat	RC4.1 - Breakdown
34644	Fertilizers containing two nutrients: nitrogen and phosphorus; other than diammonium phosphate and monoammonium phosphate'	VC2 - NAME CHANGE
34647	Fertilizers containing two nutrients: nitrogen and potassium; other than potassium nitrate	RC4.1 - Breakdown
35271	Glands or other organs, their extracts and secretions, for organo-therapeutic uses	RC4.1 - Breakdown

35272	Human blood, animal blood, antisera and other blood fractions and immunological products	RC4.1 - Breakdown
35273	Vaccines, toxins, cultures of micro-organisms (excluding yeasts) and similar products; cell cultures	RC4.1 - Breakdown
35279	Wadding, gauze, bandages and similar articles	RC4.1 - Breakdown
38141	Other furniture n.e.c., made of wood	RC4.1 - Breakdown
38149	Other furniture n.e.c., not made of wood	RC4.1 - Breakdown
38161	Parts of furniture made from wood	RC4.1 - Breakdown
38169	Parts of furniture not made from wood	RC4.1 - Breakdown
39241	Unbleached kraft paper or paperboard or corrugated paper or paperboard	RC4.1 - Breakdown
39242	Other paper or paperboard made mainly of bleached chemical pulp, not coloured in the mass	RC4.1 - Breakdown
39243	Paper or paperboard made mainly of mechanical pulp (newspapers, journals and similar)	RC4.1 - Breakdown
39249	Other, including unsorted waste and scrap	RC4.1 - Breakdown
39282	Agglomerated wood waste and scrap in forms other than pellets, including wood briquettes	VC2 - NAME CHANGE
41601	Tungsten, molybdenum, tantalum, magnesium, cobalt, cadmium, titanium, zirconium, beryllium, gallium, hafnium, indium, niobium, rhenium and thallium, germanium and vanadium, unwrought, and powders thereof, except powders of magnesium; cobalt mattes and other intermediate products of cobalt metallurgy	RC4.1 - Breakdown
41609	Waste and scrap of tungsten, molybdenum, tantalum, magnesium, cobalt, titanium, zirconium, antimony, beryllium, chromium, thallium, cadmium	RC4.1 - Breakdown
43561	Industrial robots	RC4.1 - Breakdown
43562	Other lifting, handling, loading or unloading machinery	RC4.1 - Breakdown
44826	Solar water heaters	RC4.1 - Breakdown
44827	Other non-electric water heaters	RC4.1 - Breakdown
4492	Machines for additive manufacturing	RC4.1 - Breakdown
44920	Machines for additive manufacturing	RC4.1 - Breakdown
4493	Special-purpose machinery n.e.c. (including machinery for isotopic separation, machines for assembling electric lamps in glass envelopes, machines for manufacturing glassware and rope making machines)	VC1 - CODE CHANGE
44930	Special-purpose machinery n.e.c. (including machinery for isotopic separation, machines for assembling electric lamps in glass envelopes, machines for manufacturing glassware and rope making machines)	VC1 - CODE CHANGE
4494	Parts n.e.c. for special-purpose machinery	VC1 - CODE CHANGE
44941	Parts for the goods of subclass 44913	VC1 - CODE CHANGE

44942	Parts for the goods of subclasses 44914, 44917 and 45150	VC1 - CODE CHANGE
44943	Parts for the goods of subclass 44918	VC1 - CODE CHANGE
44949	Parts for the goods of subclass 44915; other parts n.e.c. of special-purpose machinery	VC1 - CODE CHANGE
46111	Motors of an output not exceeding 37.5 W; other DC motors; DC generators other than photovoltaic generators	RC4.2 - Split off
46112	Universal AC/DC motors of an output exceeding 37.5 W; other AC motors; AC generators (alternators) other than photovoltaic generators	RC4.2 - Split off
46113	Photovoltaic AC/DC generators	RC4.1 - Breakdown
46114	Electric generating sets and rotary converters	VC1 - CODE CHANGE
46532	Lighting sets used for Christmas trees, not solely for LED light sources	RC4.2 - Split off
46533	Luminaires and lighting fittings, designed for use solely with light-emitting diode (LED) light sources	RC2 - CREATION
46539	Other electric lamps and lighting fittings (including lamps and lighting fittings of a kind used for lighting public open spaces or thorough-fares), not solely for LED light sources	RC4.2 - Split off
49621	Helicopters, except unmanned aircraft	RC4.2 - Split off
49622	Aeroplanes and other powered aircraft, , except unmanned aircraft, of an unladen weight not exceeding 2000 kg	RC4.2 - Split off
49623	Aeroplanes and other powered aircraft, , except unmanned aircraft, of an unladen weight exceeding 2000 kg	RC4.2 - Split off
49624	Unmanned aircraft	RC2 - CREATION
54651	Sound or vibration insulation services	RC4.1 - Breakdown
54652	Thermal insulation services	RC4.1 - Breakdown
54659	Other insulation services, n.e.c.	RC4.1 - Breakdown
62	Retail trade services	Explanatory note revision
6739	Other supporting services for railway transport	Explanatory note revision
67390	Other supporting services for railway transport	Explanatory note revision
6749	Other supporting services for road transport	Explanatory note revision
67490	Other supporting services for road transport	Explanatory note revision
6759	Other supporting services for water transport	Explanatory note revision
67590	Other supporting services for water transport	Explanatory note revision
6763	Other supporting services for air transport	Explanatory note revision
67630	Other supporting services for air transport	Explanatory note revision
6791	Freight transport agency services and other freight transport services	Explanatory note revision
67910	Freight transport agency services and other freight transport services	Explanatory note revision
6799	Other supporting transport services n.e.c.	Explanatory note revision
67990	Other supporting transport services n.e.c.	Explanatory note revision
68019	Other postal services	Explanatory note revision
68031	Local delivery services for food	RC4.1 - Breakdown
68039	Local delivery services for items other than food	RC4.1 - Breakdown
711	Financial services, except insurance services and pension services	VC2 - NAME CHANGE

71121	Deposit services to business and institutional depositors	VC2 - NAME CHANGE
7113	Non-business credit-granting services	RC4.2 - Split off
71139	Other non-business credit-granting services	RC4.2 - Split off
7115	Business credit granting services	RC4.2 - Split off
71151	Loan services for business purposes	VC1 - CODE CHANGE
71152	Financial leasing services	VC1 - CODE CHANGE
71153	International trade financing activities	RC4.2 - Split off
71154	Securitisation activities	RC4.2 - Split off
71155	Factoring services	RC4.2 - Split off
71159	Other business credit services	RC4.2 - Split off
7119	Other financial services, except insurance services and pension services	RC4.2 - Split off
71190	Other financial services, except insurance services and pension services	RC4.2 - Split off
71593	Financial transactions processing and clearinghouse services, excluding mobile money operators and digital wallets	RC4.2 - Split off
71594	Services of mobile money operators and digital wallets utilizing financial information	RC4.2 - Split off
72221	Residential building sales on a fee or contract basis, except of time-share ownership properties	Explanatory note revision
72222	Non-residential building sales on a fee or contract basis	Explanatory note revision
72223	Sale of time-share properties on a fee or contract basis	Explanatory note revision
7223	Land sales on a fee or contract basis	Explanatory note revision
72230	Land sales on a fee or contract basis	Explanatory note revision
81	Research and development services	NC - NOTIFICATION CHANGE
811	Research and development services in natural sciences, engineering and technology	NC - NOTIFICATION CHANGE
8111	Research and development services in natural sciences	RC4.1 - Breakdown; RC3.1 - Merger
81111	Research and development services in biological sciences	RC3.1 - Merger
81112	Research and development services in chemical sciences	RC3.1 - Merger
81113	Research and development services in computer and information services	RC3.1 - Merger
81114	Research and development services in earth and environmental sciences	RC3.1 - Merger
81115	Research and development services in mathematics	RC3.1 - Merger
81116	Research and development services in physical sciences	RC3.1 - Merger
81119	Research and development services in other natural sciences	RC3.1 - Merger
8112	Research and development services in engineering	RC4.1 - Breakdown; RC3.1 - Merger
81121	Research and development services in civil engineering	RC3.1 - Merger
81122	Research and development services in chemical engineering	RC3.1 - Merger
81123	Research and development services in electrical engineering	RC3.1 - Merger
81124	Research and development services in electronic engineering	RC3.1 - Merger
81125	Research and development services in environmental engineering	RC3.1 - Merger
81126	Research and development services in materials engineering	RC3.1 - Merger
81127	Research and development services in mechanical engineering	RC3.1 - Merger
81128	Research and development services in medical engineering	RC3.1 - Merger
81129	Research and development services in other engineering	RC3.1 - Merger

8113	Research and development services in technology	RC4.1 - Breakdown; RC3.1 - Merger
81131	Research and development services in environmental biotechnology	RC3.1 - Merger
81132	Research and development services in industrial biotechnology	RC3.1 - Merger
81133	Research and development services in development services in nanotechnology	RC3.1 - Merger
81139	Research and development services in other technology	RC3.1 - Merger
8114	Research and development services in medical and health sciences	RC4.1 - Breakdown; RC3.1 - Merger
81141	Research and development services in basic medicine	RC3.1 - Merger
81142	Research and development services in clinical medicine	RC3.1 - Merger
81143	Research and development services in health sciences	RC3.1 - Merger
81144	Research and development services in medical biotechnology	RC3.1 - Merger
81149	Research and development services in other medical and health sciences	RC3.1 - Merger
8115	Research and development services in agricultural and veterinary sciences	RC4.1 - Breakdown; RC3.1 - Merger
81151	Research and development services in agricultural biotechnology	RC3.1 - Merger
81152	Research and development services in agricultural, fisheries and forestry sciences	RC3.1 - Merger
81153	Research and development services in animal and dairy sciences	RC3.1 - Merger
81154	Research and development services in veterinary sciences	RC3.1 - Merger
81159	Research and development services in other agricultural and veterinary sciences	RC3.1 - Merger
812	Research and experimental development services in social sciences and humanities	NC - NOTIFICATION CHANGE
8121	Research and development services in social sciences	RC4.1 - Breakdown; RC3.1 - Merger
81211	Research and development services in economics and business	RC3.1 - Merger
81212	Research and development services in education	RC3.1 - Merger
81214	Research and development services in media and communications	RC3.1 - Merger
81215	Research and development services in political sciences	RC3.1 - Merger
81216	Research and development services psychology and cognitive sciences	RC3.1 - Merger
81217	Research and development services in social and economic geography	RC3.1 - Merger
81218	Research and development services in sociology	RC3.1 - Merger
81219	Research and development services in other social sciences	RC3.1 - Merger
8122	Research and development services in humanities and the arts	RC4.1 - Breakdown; RC3.1 - Merger
81221	Research and development services in arts (arts, history of arts, performing arts, music)	RC3.1 - Merger
81222	Research and development services in history and archaeology	RC3.1 - Merger
81223	Research and development services in languages and literature	RC3.1 - Merger
81224	Research and development services in philosophy, ethics and religion	RC3.1 - Merger
81229	Research and development services in other humanities	RC3.1 - Merger
813	Interdisciplinary research and development services	NC - NOTIFICATION CHANGE
8130	Interdisciplinary research and development services	NC - NOTIFICATION CHANGE
81300	Interdisciplinary research and development services	RC3.1 - Merger
837	Data and data compilation	RC2 - CREATION

8371	Data	RC4.1 - Breakdown RC3.2 - Take-over
83710	Data	RC4.1 - Breakdown RC3.2 - Take-over
8372	Compilation services of data	RC4.1 - Breakdown RC3.2 - Take-over
83720	Compilation services of data	RC4.1 - Breakdown RC3.2 - Take-over
839	Other professional, technical and business services	NC - NOTIFICATION CHANGE
8394	Market research and public opinion polling services	VC1 - CODE CHANGE
83940	Market research and public opinion polling services	VC1 - CODE CHANGE
8399	Other professional, technical and business services, n.e.c., (excluding the compilation of data)	RC5 - TRANSFER
83990	Other professional, technical and business services, n.e.c., (excluding the compilation of data)	RC5 - TRANSFER
8419	Other telecommunications services	Explanatory note revision
84190	Other telecommunications services	Explanatory note revision
8511	Personnel search and referral services	RC4.2 - Split off
85111	Executive/retained search services	RC4.2 - Split off
85112	Permanent placement services, other than executive search services	RC4.2 - Split off
85121	Contract staffing services	RC4.2 - Split off
855	Intermediation services on goods	VC2 - NAME CHANGE
8551	Intermediation services for wholesale trade	RC3.1 - Merger
85511	Intermediation services for wholesale trade of raw agricultural products and live animals	RC3.1 - Merger
85512	Intermediation services for wholesale trade of food, beverages and tobacco	RC3.1 - Merger
85513	Intermediation services for wholesale trade of textiles, clothing and footwear	RC3.1 - Merger
85514	Intermediation services for wholesale trade of construction materials and hardware	RC3.1 - Merger
85515	Intermediation services for wholesale trade of chemical and pharmaceutical products	RC3.1 - Merger
85516	Intermediation services for wholesale trade of machinery, equipment and supplies	RC3.1 - Merger
85517	Intermediation services for wholesale trade of other products	RC3.1 - Merger
85518	Intermediation services for wholesale trade of raw agricultural products and live animals	RC3.1 - Merger
85519	Intermediation services for wholesale trade of other products	RC3.1 - Merger
8552	Intermediation services for retail trade	RC3.1 - Merger
85521	Intermediation services for retail trade of raw agricultural products and live animals	RC3.1 - Merger
85522	Intermediation services for retail trade of food, beverages and tobacco	RC3.1 - Merger
85523	Intermediation services for retail trade of textiles, clothing and footwear	RC3.1 - Merger
85524	Intermediation services for retail trade of household appliances, articles and equipment	RC3.1 - Merger
85525	Intermediation services for retail trade of miscellaneous consumer goods	RC3.1 - Merger
85526	Intermediation services for retail trade of construction materials and hardware	RC3.1 - Merger
85527	Intermediation services for retail trade of chemical and pharmaceutical products	RC3.1 - Merger
85528	Intermediation services for retail trade of machinery, equipment and supplies	RC3.1 - Merger
85529	Intermediation services for retail trade of other products	RC3.1 - Merger

8554	Tour operator services	VC1 - CODE CHANGE
85540	Tour operator services	VC1 - CODE CHANGE
8555	Tourist guide services	VC1 - CODE CHANGE
85550	Tourist guide services	VC1 - CODE CHANGE
85561	Tourism promotion services	VC1 - CODE CHANGE
85562	Visitor information services	VC1 - CODE CHANGE
856	Intermediation services for accommodation, food and beverage, transport and electricity, gas and water distribution services	RC4.1 - Breakdown
8561	Intermediation service for passenger transportation	RC4.1 - Breakdown
85610	Intermediation service for passenger transportation	RC4.1 - Breakdown
8562	Intermediation service for accommodation	RC4.1 - Breakdown
85620	Intermediation service for accommodation	RC4.1 - Breakdown
8563	Intermediation services for freight transportation	RC4.1 - Breakdown
85630	Intermediation services for freight transportation	RC4.1 - Breakdown
8564	Intermediation services for postal and courier activities	RC4.1 - Breakdown
85640	Intermediation services for postal and courier activities	RC4.1 - Breakdown
8565	Intermediation service for food and beverage services activities	RC4.1 - Breakdown
85650	Intermediation service for food and beverage services activities	RC4.1 - Breakdown
8566	Intermediation services for rental and leasing of other tangible goods and non-financial intangible assets	RC4.1 - Breakdown
85660	Intermediation services for rental and leasing of other tangible goods and non-financial intangible assets	RC4.1 - Breakdown
8567	Intermediation service for rental and leasing of cars, motorhomes and trailers	RC4.1 - Breakdown
85670	Intermediation service for rental and leasing of cars, motorhomes and trailers	RC4.1 - Breakdown
8568	Intermediation services to electricity, gas and water distribution	RC4.1 - Breakdown
85681	Intermediation services for electricity transmission services	RC4.1 - Breakdown
85682	Intermediation services for electricity distribution services	RC4.1 - Breakdown
85683	Intermediation services for the distribution services of gas through mains	RC4.1 - Breakdown
85684	Intermediation services for the distribution services of steam, hot water and air-conditioning supply through mains	RC4.1 - Breakdown
857	Intermediation for community, social and personal services	RC4.1 - Breakdown
8571	Intermediation service for courses and tutors	RC4.1 - Breakdown
8572	Intermediation service for medical, dental, and other human health services	RC4.1 - Breakdown
8573	Intermediation service for residential care activities	RC4.1 - Breakdown
8579	Other intermediation service for personal services	RC4.1 - Breakdown
858	Other intermediation services	RC4.1 - Breakdown

8581	Intermediation services for specialized construction services	RC4.1 - Breakdown
8582	Intermediation services for telecommunication	RC4.1 - Breakdown
8583	Intermediation service for real estate	RC4.1 - Breakdown
8585	Intermediation service for repair and maintenance of computers, personal and household goods, and motor vehicles and motorcycles	RC4.1 - Breakdown
8589	Intermediation services for business support service activities n.e.c., except financial intermediation	RC4.1 - Breakdown
859	Other support services	RC4.1 - Breakdown
8591	Credit reporting and collection agency services	RC4.1 - Breakdown
85911	Credit reporting services	RC4.1 - Breakdown
85912	Collection agency services	RC4.1 - Breakdown
8592	Telephone based support services	RC4.1 - Breakdown
85921	Telephone call centre services	RC4.1 - Breakdown
85929	Other telephone-based support services	RC4.1 - Breakdown
8593	Office administrative services	RC4.1 - Breakdown
85931	Combined office administrative services	RC4.1 - Breakdown
85932	Duplicating services	RC4.1 - Breakdown
85933	Mailing services	RC4.1 - Breakdown, VC1 - CODE CHANGE
85939	Document preparation and other specialized office support services	RC4.1 - Breakdown
8594	Convention and trade show assistance and organization services	RC4.1 - Breakdown
85941	Convention assistance and organization services	RC4.1 - Breakdown
85942	Trade show assistance and organization services	RC4.1 - Breakdown
8595	Landscape care and maintenance services	RC4.1 - Breakdown
85950	Landscape care and maintenance services	RC4.1 - Breakdown
8596	Tourist operator and guide services	RC4.1 - Breakdown
85961	Tour operator services	RC4.1 - Breakdown
85962	Tourist guide services	RC4.1 - Breakdown
8597	Tourism promotion and visitor information services	RC4.1 - Breakdown
85971	Tourism promotion services	RC4.1 - Breakdown
85972	Visitor information services	RC4.1 - Breakdown
8599	Other information and support services n.e.c.	RC4.1 - Breakdown
85991	Other information services	RC4.1 - Breakdown
85999	Other support services n.e.c.	RC4.2 - Split off



9114	Public administrative services related to the provision on environmental services	RC4.1 - Breakdown
91140	Public administrative services related to the provision on environmental services	RC4.1 - Breakdown
921	Early childhood and pre-primary education services	VC2 - NAME CHANGE
9211	Early childhood development services	RC4.1 - Breakdown
92110	Early childhood development services	RC4.1 - Breakdown
9212	Pre-primary education services	RC4.1 - Breakdown
92120	Pre-primary education services	RC4.1 - Breakdown
9251	Short-cycle tertiary education services	RC4.2 - Split off
92511	Short-cycle tertiary general education services	RC4.1 - Breakdown
92512	Short-cycle tertiary vocational education services	RC4.1 - Breakdown
9252	Bachelors or equivalent education services	RC4.1 - Breakdown
92520	Bachelors or equivalent education services	RC4.1 - Breakdown
9253	Masters or equivalent education services	RC4.1 - Breakdown
92530	Masters or equivalent education services	RC4.1 - Breakdown
9254	Doctoral or equivalent education services	RC4.1 - Breakdown
92540	Doctoral or equivalent education services	RC4.1 - Breakdown
9259	Other tertiary education services	RC4.1 - Breakdown
92590	Other tertiary education services	RC4.1 - Breakdown
9292	Educational support services	Explanatory note revision
92920	Educational support services	Explanatory note revision
93199	Other human health services n.e.c.	Explanatory note revision
9444	Treatment of air pollution	RC4.1 - Breakdown
94440	Treatment of air pollution	RC4.1 - Breakdown
9445	Carbon capture and storage services	RC4.1 - Breakdown
94450	Carbon capture and storage services	RC4.1 - Breakdown