

Statistical Commission
Thirty-third session
5-8 March 2002

**Room document supporting
E/CN.3/2002/21**

Convergence of classifications

This documents shows two appendices describing the sector descriptions and full detail of the convergence scenario described in report E/CN.2/2002/21 (Report on convergence of industrial classifications prepared under an agreement between Statistics Canada, the Office of Management and Budget of the United States of America and the Statistical Office of the European Communities).

Appendix 1

Sector descriptions

In this section, a brief description of each sector will be presented, giving the rationale and conceptual basis for the grouping as well as listing the next level of detail in the convergence scenario. The number of additional detailed classes, if applicable, is shown in brackets. The full detail of the convergence scenario can be found in Appendix 2.

Agriculture, Forestry, Fishing and Hunting

Agriculture

- Crop Farming (3)
- Animal Farming (6)
- Mixed Farming
- Support Activities for Agriculture (2)

Forestry

- Forestry and Logging
- Support Activities for Forestry

Fishing, Hunting and Trapping

- Fishing
- Hunting & Trapping

The scenario for agriculture, forestry, fishing and hunting groups these activities into three broad categories. Agriculture can have a significant amount of detail, assuming that the major issue of the treatment of mixed crop and livestock farming can be settled. NACE has one category for this, while NAICS splits majority crop and majority livestock farms. Other issues which need to be settled include the treatment of aquaculture (the scenario includes this as a detailed class) and

the boundary between agriculture and manufacturing (integrated farming and food processing and perhaps beneficiation are issues). Forestry has no significant issues while Fishing in the scenario includes fish processing on ships.

Mining

Mining and quarrying of energy-producing materials (3)
Mining of metal ores, except uranium and thorium ores (2)
Other mining and quarrying (3)
Support activities for mining (2)

In mining and quarrying, the scenario adopts the NACE structure, in particular the creation of a grouping for the mining and quarrying of energy-producing materials. The scenario follows NAICS in (1) classifying support services to mining and quarrying in a separate grouping, and (2) classifying salt manufacturing establishments (that are not integrated with salt mining), in food manufacturing.

Utilities

Electric Power Generation, Transmission and Distribution
Natural Gas and Other Gas Distribution
Water Supply and Irrigation Systems
Steam and Air Conditioning Supply

This scenario requires that NACE move the operation of irrigation systems from Agriculture to Utilities and that NAICS move Sewage Treatment Facilities from Utilities to a new Sanitation grouping. The level of detail below these classes is limited by the absence of further detail in NACE.

Construction

Building construction (2)
Civil engineering works
Special trades

Three broad divisions have been considered in the Construction sector scenario: Building Construction, Civil Engineering Works and Special Trades. At the same time, the Building Construction sub-sector would be subdivided in two more categories, that is, Residential Building Construction and Non-Residential Building Construction. Proposals for lower levels have not been considered, since achieving convergence further down would imply too many changes for both NAICS and NACE.

The scenario adopts the NAICS practice of considering installation of machinery not done by the manufacturers of the machinery as a construction activity whereas NACE generally treats it as a manufacturing activity.

Manufacturing

(NACE 15-22)

Food, Beverages and Tobacco (18)

Textile, Leather and Apparel (16)

Wood products

Paper manufacturing (7)

Printing

Both classifications have a significant amount of detail in these traditional manufacturing industries (some would say too much detail). Where the conceptual basis for disaggregation differs, it is very difficult to achieve convergence without significantly impacting one or both of the classifications. This is the case for the Wood products industries, for example. Where the disaggregation logic is similar, many common classes can be defined, for example in Food, Beverage and Tobacco. A new grouping for Textile, Leather and Apparel, which does not currently exist in either classification, provides an opportunity for defining a number of common classes at a middle level, at the cost of fairly large residual classes. These would be further broken down into appropriate detailed classes for each classification. Finally, all publishing activity has been removed from the Printing industry, in accordance with the NAICS concept for the Information sector.

NACE 23-28

Plastic and Rubber products (5)

Fossil and mineral fuel products (3)

Chemical products (25)

Non-metallic mineral products (4)

Primary metals (9)

Fabricated metal products (15)

The most significant change within this group of industries is the expansion of the boundaries of sub-sector 324 (Petroleum and Coal Products Manufacturing) to reflect the change in concept from “petroleum products” to the more general “fossil and mineral fuel products”. This latter concept puts together petroleum products manufacturing and nuclear fuel processing which is now classified under NAICS 325 (Chemical products manufacturing) and under 3314 (Nonferrous Metal production and processing).

In several other sub-sectors in this group, the criteria followed by each classification for disaggregation differ. To achieve convergence at detailed levels would imply many changes for both classifications and it is deemed better to make the proposals at a high level. For instance, cement, lime and gypsum manufacturing were grouped together to reach convergence in the Non-metallic Mineral Products sub-sector.

In addition, some industries have been relocated because of the production function principle. For instance, textile dye preparations and other household dye or tinting preparations, and other inks (e.g. for duplication, printing and drawing) are classified in NAICS 3259 (Other Chemical Products and Preparation Manufacturing). In this proposal that activity has been relocated to paints, adhesives and sealers manufacturing, since their production processes are similar.

NACE 29-37

Computers, Communications Equipment, Electronic Components, and Related Electronic Equipment (9)

Electrical Equipment, Wire, Wiring Devices, and Electric and Nonelectric Household Appliances (6)

General Purpose Machinery (7)

Special Purpose Machinery (4)

Furniture (2)

Miscellaneous Manufacturing (6)

Transportation Equipment (6)

The scenario presented for this part of manufacturing incorporates a number of NAICS concepts that will require significant adjustments for NACE if they are accepted. Most significantly, these concepts include a clear breakdown between electrical machinery and electronic machinery.

This fundamental split is required if a high tech manufacturing area is to be created in a converged classification. The convergence scenario recommends a grouping to include detailed industries for computers, communications equipment, semiconductors, household audio and video equipment, other electronic components, and high technology medical equipment such as MRI systems and X-ray equipment. This represents a significant improvement over many existing classifications and was considered desirable by the convergence working group. The cost to current industry structures is on the high side of moderate, particularly for NACE.

Wholesale and Retail Trade

Except for repair and maintenance activities, which is the subject of a separate proposed grouping in the convergence scenario, both NACE and NAICS cover essentially the same activities in wholesale and retail combined. However, different principles are used to determine whether a distributive trade activity is wholesale or retail. In NACE, this determination is made according to the class of customer. If the customer is business or institutional, then the activity is wholesale. Otherwise, it is a retail activity. In NAICS, the production process is used to determine whether an activity is wholesale or retail. If the activity is conducted in a store-like facility, using a retail business process, then it is retail, regardless of the class of customer. This difference in treatment creates a large number of incompatibilities between NACE and NAICS so that the best that can be achieved, without a massive recoding exercise across all classes, is a combined wholesale/retail high level grouping, with no further convergence at lower levels of the classification.

Transportation and Storage

Land transport (7)
Water transport (2)
Air transport (2)
Scenic transportation
Support services (5)
Courier and postal (2)
Storage and Warehousing

The crucial issue to achieving convergence in this area is the NAICS concept of Scenic transportation, which cuts across modes of transport, the primary disaggregation logic in this sector. The scenario assumes that NACE can adopt this concept, but the converse (i.e. NAICS abandoning the concept) would also result in significant convergence possibilities.

Information

Publishing Industries (7)
Motion Picture and Sound Recording Industries (11)
Broadcasting, except Internet (4)
Internet Publishing and Broadcasting
Telecommunications (6)
Internet Service Providers, Web Search Portals and Data Processing (2)
Other Information Services (5)

In this sector, the scenario assumes that the definition of the Information sector for the 2002 version of NAICS will for the basis of the converged classification, a stated objective of the project from the outset.

Hotels and Restaurants

Hotels
Other Traveler Accommodation
Food Serving and Special Food Places
Drinking Places

In this sector the coverage and concepts are identical in NAICS and NACE. However, the detail is different, without any clear justification in any of the systems. The proposed scenario can be achieved with no cost to either system and the degree of detail, even if aggregated, may be sufficient for the purpose.

Finance and Insurance

Finance (3)
Insurance (3)
Other Financial Industries (3)

In this sector there is already a high degree of similarity. The main difference is the separate identification of Reinsurance in NAICS. The scenario assumes that NACE can adopt this concept which already has been strongly requested in Europe. The scenario does not include NAICS 525 Financial vehicles since they appear to fall outside the scope of an activity classification.

Real Estate and Rental and Leasing

Real Estate (3)

Rental and Leasing (5)

NACE has two classes that fall outside the scope of real estate in NAICS.

Development and selling of real estate by people that do not actually do any physical construction themselves falls under construction in NAICS and in real estate in NACE. The scenario assumes that NACE can accept to follow NAICS. It has always been extremely difficult to explain the NACE treatment in Europe.

NACE also has Buying and selling of real estate as a separate activity. The scenario assumes that most would be under 70.20 or completely out of the scope of an activity classification. No further detail is possible, and perhaps not even necessary

For rental and leasing the coverage and concepts are identical in NAICS and NACE. However, as in other sectors, the detail is different, without any clear justification in any of the systems. The proposed scenario can be achieved with no or little cost to either system and the degree of detail, even if aggregated, may be sufficient for the purpose.

Professional, Scientific and Technical Services

Legal Services

Accounting Services

Architecture and Engineering Services

Computer Services

Management Consultancy services

Research and Development Services

Advertising Services

Market Research and Opinion Polling Services

Photography Services

Translation and Interpretation Services

Design Services

Management of Companies and Enterprises

Other Professional, Scientific and Technical Services

The scenario for business services is based on the fact that NACE would wish to pursue, with or without convergence, relevance enhancing structural changes in line with that which were adopted earlier in NAICS. Therefore, at the highest level the scenario proposes the split between Professional, Scientific and Technical Services and Administrative and support services.

The detail in Professional, Scientific and Technical Services is very similar in the two systems and the cost involved to both NACE and NAICS would be fairly minimal.

Administrative and Support Services

- Office Administrative Services
- Facilities Support Services
- Employment Services
- Business Support Services
- Call Centres
- Travel Arrangements and Reservation Services
- Investigation and Security Services
- Packaging and Labeling Services
- Services to Buildings and Dwellings and Industrial Cleaning Services
- Convention and Trade Show Organization Services
- Other Support Services

This area is presently under-developed in NACE and the scenario assumes that NACE can accept a number of NAICS concepts, especially office administrative services, facilities support, and travel arrangement and reservation services. The cost to NACE would be moderate to high, but it is recognized that the area needs improvement.

Education

- Primary and Secondary Education
- Higher Education
- Other Miscellaneous Education

This scenario is consistent with the latest ISCED, which seems to indicate that all learning activities are considered as education. This draft includes under education sport instruction and education in recreational activities. The scenario also assumes that NAICS can accept to suppress education support services.

Health and Social Services

- Hospital activities
- Medical practice activities
- Dental practice activities
- Other human health activities
- Veterinary activities
- Social work activities

The scenario follows the NACE concept, which makes the distinction between medical services by doctors, medical services by paramedicals and social work activities without medical treatment. This would involve minor cost to NAICS. The crucial structural issue is the inclusion of veterinary activities in this area. The concept and coverage is already identical in NACE and

NAICS, so a move in NAICS will come at no or minimal costs. The scenario assumes that NAICS can adopt this grouping, but the converse (i.e. that NACE move it out of this sector) is also at no or minimal cost.

Arts, Entertainment and Recreation

Museums, Historical Sites and Buildings
Botanical and Zoological Gardens and Nature Reserves
Gambling and Betting Activities
Other Arts, Entertainment and Recreation Activities

For Museums, Historical Sites and Buildings, Botanical and Zoological Gardens and Nature Reserves as well as Gambling and Betting Activities the scenario supposes the NACE level of detail with no cost to either system.

However, Arts, Entertainment and Recreation Activities is the most difficult area in services. In the other sectors it is mainly borderline adjustments or clearly defensible concepts. Here there is no common ground on what is art and what is entertainment, and no clear underlying principles. The best that can be achieved, without a massive recoding exercise across all classes, is high a level grouping, with no further convergence at lower levels of the classification.

Sanitation

Collection and Treatment of Sewage
Collection and Treatment of Other Waste
Sanitation, Remediation and Similar Activities

Generally the concepts and boundaries are matching, but the scenario implies the adoption by the NAICS countries of a high-level grouping for Sanitation, an existing NACE grouping. This would move sewage away from utilities in NAICS.

Repair and Maintenance

Repair and Maintenance of Motor Vehicles
Consumer Electronics Repair
Computer and Office Machinery Repair
Other Commercial and Industrial Machinery Repair and Maintenance
Appliance Repair and Maintenance
Re-upholstery and Furniture Repair
Footwear and Leather Goods Repair
Other Personal and Household Goods Repair

This scenario presumes that the treatment of repair and maintenance follow the NAICS concept which was seen as a desirable feature by the convergence group. An analysis showed that the cost to NACE would be much less than expected.

Other Services

Services of Associations and Organizations (6)

Personal Care Services

Washing and Dry Cleaning Services

Funeral and Related Services

Other Services (3)

The definition and a high degree of detail is common to both NACE and NAICS. To achieve convergence only borderline moves would be necessary at little cost.

Public Administration

The definition of this sector is apparently the same in both NACE and NAICS. However, there are differences in application. Included in this sector are activities that are traditionally performed by governments. Lately, however, this has not been a stable concept, with the privatization of many activities previously performed by governments. While both NACE and NAICS classify to the appropriate activity outside of Public Administration various “private” activities performed by governments, there are some differences regarding privatized activities. For example, in NACE, fire-fighting and fire protection is by definition in Public Administration, regardless of the nature of the service provider. For some NAICS countries, the tendency will be to classify private fire-fighting services outside of public administration. There is a need to harmonize the treatment of these types of activities, first, around agreed upon definition of the activities of Public Administration, and secondly by distinguishing between activity classification and SNA sector classification. The latter is the appropriate framework for distinguishing private and public sector activities, not the former.

The following concepts could be used to define public administration:

- (1) activities related to the determination of public policy, including the making and interpretation of laws;
- (2) activities related to the state's monopoly over the use of force;
- (3) activities related to the provision of public goods.

Examples of the first would include

- parliaments and legislatures
- central banks
- policy-making activities of government departments and agencies
- regulatory activities of governments
- could include regulatory activities of private entities, where authorized by law, for example law societies

Examples of the second would include:

- courts
- police and military
- prisons
- could include private entities performing these activities

Examples of the third could include:

- operation of activities with significant positive externalities, such as national parks.

The working group agreed that further common classes would not be sought below the sector level, due to the differences in the institutional structures in each country.

Appendix 2

NACE-NAICS Convergence Project Convergence scenario #1 - Same structure option

A	Agriculture, Forestry, Fishing and Hunting
A1	Agriculture
A1.1	Crop Farming
A1.11	Vegetable, Greenhouse, Nursery and Other Horticultural Farming
A1.12	Fruit, Nut, Beverage, Spice and Other Crop Farming
A1.13	Other Crop Farming
A1.2	Animal Farming
A1.21	Cattle Ranching and Farming
A1.22	Hog and Pig Farming
A1.23	Poultry and Egg Production
A1.24	Sheep and Goat Farming
A1.25	Aquaculture
A1.26	Other Animal Farming
A1.3	Mixed Farming
A1.4	Support Activities to Agriculture
A1.41	Support Activities to Crop Farming
A1.42	Support Activities to Animal Farming
A2	Forestry
A2.1	Forestry and logging
A2.2	Support Activities to Forestry
A3	Fishing, Hunting and Trapping
A3.1	Fishing
A3.2	Hunting and Trapping
B	Mining
B1	Mining and quarrying of energy-producing materials
B1.1	Mining of coal and lignite; extraction of peat
B1.2	Extraction of crude petroleum and natural gas
B1.3	Mining of uranium and thorium ores
B2	Mining of metal ores, except uranium and thorium
B2.1	Mining of iron ores
B2.2	Mining of non-ferrous metal ores, except uranium and thorium
B3	Quarrying and other mining
B3.1	Quarrying
B3.2	Mining of chemical and fertilizer minerals
B3.3	Other quarrying and mining, n.e.c.
B4	Support activities for mining
B4.1	Support activities for mining and quarrying of energy-producing materials
B4.2	Support activities for other mining and quarrying
C	Utilities
C1	Electric Power Generation, Transmission and Distribution
C2	Natural Gas and Other Gas Distribution
C3	Water Supply and Irrigation Systems
C4	Steam and Air Conditioning Supply
D	Construction
D1	Building construction
D1.1	Residential
D1.2	Non-residential
D2	Civil Engineering Works
D3	Special Trades
E/F	Manufacturing

- E1 Food, Beverages and Tobacco
 - E1.1 Food
 - E1.11 Meat
 - E1.12 Fish
 - E1.13 Dairy Products
 - E1.131 Dairy (except frozen)
 - E1.132 Ice Cream and Frozen Desserts
 - E1.14 Prepared Animal Feeds
 - E1.15 Other Foods
 - E1.151 Sugar
 - E1.152 Cocoa and Chocolate
 - E1.153 Tea and Coffee
 - E1.154 Condiments and Seasonings
 - E1.155 Other
 - E1.2 Beverages
 - E1.21 Mineral Water and Soft Drinks
 - E1.22 Beer
 - E1.23 Wine and Spirits
 - E1.3 Tobacco
- E2 Textiles, leather and apparel
 - E2.1 Textiles
 - E2.11 Fiber, Yarn and Thread
 - E2.12 Fabric Mills
 - E2.121 Knit Fabric Mills
 - E2.122 Other Fabric Mills
 - E2.13 Other Textile Industries
 - E2.131 Carpet and Rugs
 - E2.132 Other
 - E2.2 Leather
 - E2.21 Tanning
 - E2.22 Footwear
 - E2.23 Leather Accessories and other products
 - E2.3 Apparel
 - E2.31 Apparel Knitting Mills
 - E2.32 Cut and Sew Apparel Manufacturing
 - E2.33 Apparel Accessories and Other Apparel
- E3 Wood Products
- E4 Paper Manufacturing
 - E4.1 Pulp, Paper and Paperboard
 - E4.11 Pulp
 - E4.12 Paper and Paperboard
 - E4.2 Paper Products
 - E4.21 Sanitary Goods and Toilet Requisites
 - E4.22 Stationary
 - E4.23 Other Paper Products
- E4.3 Printing and Related Services
 - E4.31 Printing
 - E4.32 Printing Related Services
- E5 Plastic and Rubber Products
 - E5.1 Plastic Products
 - E5.2 Rubber Products
 - E5.21 Tires
 - E5.22 Retreading Tires
 - E5.23 Other Rubber Products
- E6 Fossil and Mineral Fuel Products
 - E6.1 Oil Refineries

- E6.2 Nuclear Fuel Processing
- E6.3 Other Petroleum and Coal Products
- E7 Chemical Products
 - E7.1 Basic Chemicals
 - E7.11 Petrochemical products
 - E7.12 Industrial Gases
 - E7.13 Dyes and colours
 - E7.14 Inorganic Chemicals
 - E7.15 Basic Organic Chemicals, n.e.c.
 - E7.2 Resin, synthetic rubber and synthetic fibers
 - E7.21 Resin and synthetic rubber
 - E7.22 Synthetic fibers
 - E7.3 Fertilizers, pesticides and other agrochemicals
 - E7.31 Fertilizers
 - E7.32 Pesticides and other agrochemicals
 - E7.4 Paints, adhesives and sealers
 - E7.41 Paints and printing inks
 - E7.42 Adhesives and sealers
 - E7.5 Pharmaceutical and medicine
 - E7.51 Basic pharmaceuticals
 - E7.52 Medicines
 - E7.6 Soap, Cleaning Compounds and Toilet Preparations
 - E7.61 Soap and Cleaning Compounds
 - E7.62 Toilet Preparations
 - E7.7 Other Chemical Products
 - E7.71 Explosives
 - E7.72 Photographic chemicals
 - E7.73 All Other Chemicals
- E8 Non-metallic Mineral Products
 - E8.1 Glass
 - E8.2 Clay
 - E8.3 Refractory Products
 - E8.4 Other
- E9 Primary Metals
 - E9.1 Iron and Steel Mills, Ferro-Alloy Manufacturing and Steel Product Manufacturing from Purchased Steel
 - E9.11 Iron and Steel Mills and Ferro-Alloy Manufacturing
 - E9.12 Iron and Steel Pipe Manufacturing from Purchased Steel
 - E9.13 Other Iron and Steel Product Manufacturing from Purchased Steel
 - E9.2 Alumina and Aluminum Production and Processing
 - E9.3 Non-Ferrous Metal (except Aluminum) Production and Processing
 - E9.4 Foundries
 - E9.41 Ferrous Metal Foundries
 - E9.42 Non-Ferrous Metal Foundries
- F1 Fabricated Metal Products
 - F1.1 Architectural and Structural Metals Manufacturing
 - F1.11 Structural Metals
 - F1.12 Ornamental and Architectural Metal Products
 - F1.2 Boiler, Tanks and Shipping Container Manufacturing
 - F1.21 Metal container manufacturing
 - F1.22 Industrial Boilers and Tanks
 - F1.3 Forging and Stamping
 - F1.4 Metal coating and finishing and machine shops
 - F1.41 Metal coating and finishing
 - F1.42 Machine shop and Turned Product and Screw Manufacturing
 - F1.5 Cutlery, kitchen utensils and hardware manufacturing

F1.51 Cutlery and kitchen utensils
 F1.52 Hand tools
 F1.53 Hardware manufacturing
 F1.6 Products made of purchased wire
 F2 Computers, Communications Equipment, Electronic Components
 F2.1 Computers and Peripherals
 F2.2 Communications Equipment
 F2.3 Consumer Electronics
 F2.4 Electronic Components
 F2.5 Measuring, Testing, Navigating and Control Equipment
 F2.6 Electro-medical and Electro-therapeutic
 F2.7 Optical Instruments and Equipment
 F2.8 Reproduction Blank Magnetic and Optical Media
 F2.9 Manufacture of Magnetic and Optical Media
 F3 Electrical Equipment
 F3.1 Electric Motors and Generators
 F3.2 Battery Manufacturing
 F3.3 Wiring Devices
 F3.4 Electric Lighting
 F3.5 Household Appliances
 F3.6 Other Electrical
 F4 General Purpose Machinery
 F4.1 Ventilating, Heating and Cooling
 F4.2 Engines and Power Transmission Equipment
 F4.3 Lawn and Garden Equipment and Power Tools
 F4.4 Pumps and Compressors
 F4.5 Material Handling Equipment
 F4.6 Arms, Ordnance and Ammunition
 F4.7 Other General Purpose
 F5 Special Purpose Machinery
 F5.1 Agriculture and Forestry Machinery
 F5.2 Construction and Mining Machinery
 F5.3 Metal Working Machinery
 F5.4 Special Industry Machinery
 F6 Furniture
 F6.1 Furniture
 F6.2 Mattress
 F7 Miscellaneous
 F7.1 Medical and Dental Instruments and Supplies
 F7.2 Jewelry and Cutlery
 F7.3 Sporting Goods
 F7.4 Games and Toys
 F7.5 Signs
 F7.6 Other Miscellaneous
 F8 Transportation Equipment
 F8.1 Motor Vehicles
 F8.2 Motor Vehicle Parts
 F8.3 Aircraft and Spacecraft
 F8.4 Railroad Locomotives and Rolling Stock
 F8.5 Shipbuilding
 F8.6 Other Transportation Equipment
 G Wholesale and Retail Trade
 H Transportation and Storage
 H1 Land Transport
 H1.1 Rail Transport
 H1.2 Other Land Transport

- H1.21 Passenger, Scheduled
- H1.22 Passenger, Other
- H1.23 Taxi
- H1.24 Freight
- H1.3 Pipeline
- H2 Water Transport
 - H2.1 Deep Sea
 - H2.2 Inland
- H3 Air Transport
 - H3.1 Scheduled
 - H3.2 Non-scheduled
- H4 Scenic Transportation
- H5 Support Services
 - H5.1 Rail and Road Specific
 - H5.2 Water Specific
 - H5.3 Air Specific
 - H5.4 Freight Arrangement
 - H5.5 Cargo Handling
- H6 Courier and Postal
 - H6.1 Couriers
 - H6.2 Postal
- H7 Storage and Warehousing
- I Information
 - I1 Publishing Industries (except Internet)
 - I1.1 Newspaper, Periodical, Book and Database Publishers
 - I1.11 Newspaper
 - I1.12 Periodical
 - I1.13 Book
 - I1.14 Directory and Mailing List
 - I1.15 Other Publishers
 - I1.2 Software Publishers
 - I2 Motion Picture and Sound Recording Industries
 - I2.1 Motion Picture and Video Industries
 - I2.11 Motion Picture and Video Production
 - I2.12 Motion Picture and Video Distribution
 - I2.13 Motion Picture and Video Exhibition
 - I2.14 Post-Production and Other Motion Picture and Video Industries
 - I2.2 Sound Recording Industries
 - I2.21 Record Production
 - I2.22 Integrated Record Production/Distribution
 - I2.23 Music Publishers
 - I2.24 Sound Recording Studios
 - I2.25 Other Sound Recording Industries
 - I3 Broadcasting (except Internet)
 - I3.1 Radio and Television Broadcasting
 - I3.11 Radio Broadcasting
 - I3.12 Television Broadcasting
 - I3.13 Pay and Specialty Television
 - I4 Internet Publishing and Broadcasting
 - I5 Telecommunications
 - I5.1 Wired Telecommunications Carriers
 - I5.2 Wireless Telecommunications Carriers (except
 - I5.3 Telecommunications Resellers
 - I5.4 Satellite Telecommunications
 - I5.5 Cable and Other Program Distribution
 - I5.6 Other Telecommunications

- I6 Internet Service Providers, Web Search Portals, and Data Processing Services
 - I6.1 Internet Service Providers, Web Search Portals
 - I6.2 Data Processing, Hosting, and Related Services
- I7 Other Information Services
 - I7.1 News Syndicates
 - I7.2 Libraries and Archives
 - I7.3 All Other Information Services
- J Hotels and Restaurants
 - J1 Hotels
 - J2 Other Traveler Accommodation
 - J3 Foods Serving and Special Food Places
 - J4 Drinking Places
- K Finance and Insurance
 - K1 Finance
 - K1.1 Central Banking
 - K1.2 Depository Credit Intermediation
 - K1.3 Other Financial Intermediation
 - K2 Insurance
 - K2.1 Life Insurance
 - K2.2 Non-life Insurance
 - K2.3 Reinsurance
 - K3 Other Financial Industries
 - K3.1 Administration of Financial Markets
 - K3.2 Other Financial Ancillary Activities
 - K3.3 Insurance Related Activities
- L Real Estate and Rental and Leasing
 - L1 Real Estate
 - L1.1 Lessors for Real Estate
 - L1.2 Real Estate Agencies
 - L1.3 Activities Related to Real Estate
 - L2 Rental and Leasing
 - L2.1 Consumer Goods Rental
 - L2.2 Motor Vehicle Rental
 - L2.3 Rental of Other Transport Equipment
 - L2.4 Rental of Office Equipment
 - L2.5 Commercial and Industrial Machinery and Equipment Rental
- M Professional, Scientific and Technical Services
 - M1 Legal Services
 - M2 Accounting Services
 - M3 Architecture and Engineering Services
 - M4 Technical Testing and Analysis
 - M5 Computer Services
 - M6 Management Consultancy Services
 - M7 Research and Development
 - M8 Advertising Services
 - M9 Market Research and Opinion Polling Services
 - M10 Photography Services
 - M11 Translation and Interpretation
 - M12 Design Services
 - M13 Management of Companies and Enterprises
 - M14 Other
- N Administrative and Support Services
 - N1 Office Administrative Services
 - N2 Facilities Support Services
 - N3 Employment Services
 - N4 Business Support Services

N5 Call Centers
 N6 Travel Arrangements and Reservation Services
 N7 Investigation and Security Services
 N8 Services to Building and Dwellings and Industrial Cleaning Services
 N9 Packaging and Labeling Services
 N10 Convention and Trade Show Organization Services
 N11 Other Support Services
 O Education
 O1 Primary and Secondary Education
 O2 Higher Education
 O3 Other Miscellaneous Education
 P Health and Social Services
 P1 Hospital activities
 P2 Medical practice activities
 P3 Dental practice activities
 P4 Other human health activities
 P5 Veterinary activities
 P6 Social Work Activities
 Q Arts, Entertainment and Recreation
 Q1 Museums, Historical Sites and Buildings
 Q2 Botanical and Zoological Gardens and Nature Reserves
 Q3 Gambling and Betting Activities
 Q4 Other
 R Sanitation
 R1 Collection and Treatment of Sewage
 R2 Collection and Treatment of Other Waste
 R3 Sanitation, Remediation and Similar Activities
 S Repair and Maintenance
 S1 Repair and Maintenance of Motor Vehicles
 S2 Consumer Electronics Repair
 S3 Computer and Office Machinery Repair
 S4 Other Commercial and Industrial Machinery Repair and Maintenance
 S5 Appliance Repair and Maintenance
 S6 Reupholstery and Furniture Repair
 S7 Footwear and Leather Goods Repair
 S8 Other Personal and Household Goods Repair
 T Other Services
 T1 Services of Associations and Organizations
 T1.1 Business Associations
 T1.2 Professional Associations
 T1.3 Trade Unions
 T1.4 Religious Organizations
 T1.5 Political Organizations
 T1.6 Other Associations
 T2 Personal Care Services
 T3 Washing and Dry Cleaning Services
 T4 Funeral and Related Activities
 T5 Other Services
 T5.1 Extra-territorial Organizations and Bodies
 T5.2 Private Households with Employed Persons
 T5.3 All Other Services n.e.c.
 U Public Administration