

8.2 Other Product Classifications Related to CPC

Revision of SIEC Trade Classifications (BEC/EBOPS/HS)

ECLAC/UNSD Regional Workshop on International Statistical Classifications
Santiago de Chile
20 - 22 May 2025

Overview

Revision of SIEC

- ❖ Updated Timeline & Current Status
- ❖ Alignment with CPC
- ❖ Other Significant Decisions
- ❖ Draft Structure
- ❖ Process for Finalization

Trade Classifications

- ❖ Harmonized System (HS)
- ❖ Balance of Payments (BOP)
- ❖ Extended Balance of Payments (EBOPS)
- ❖ Broad Economic Categories (BEC)



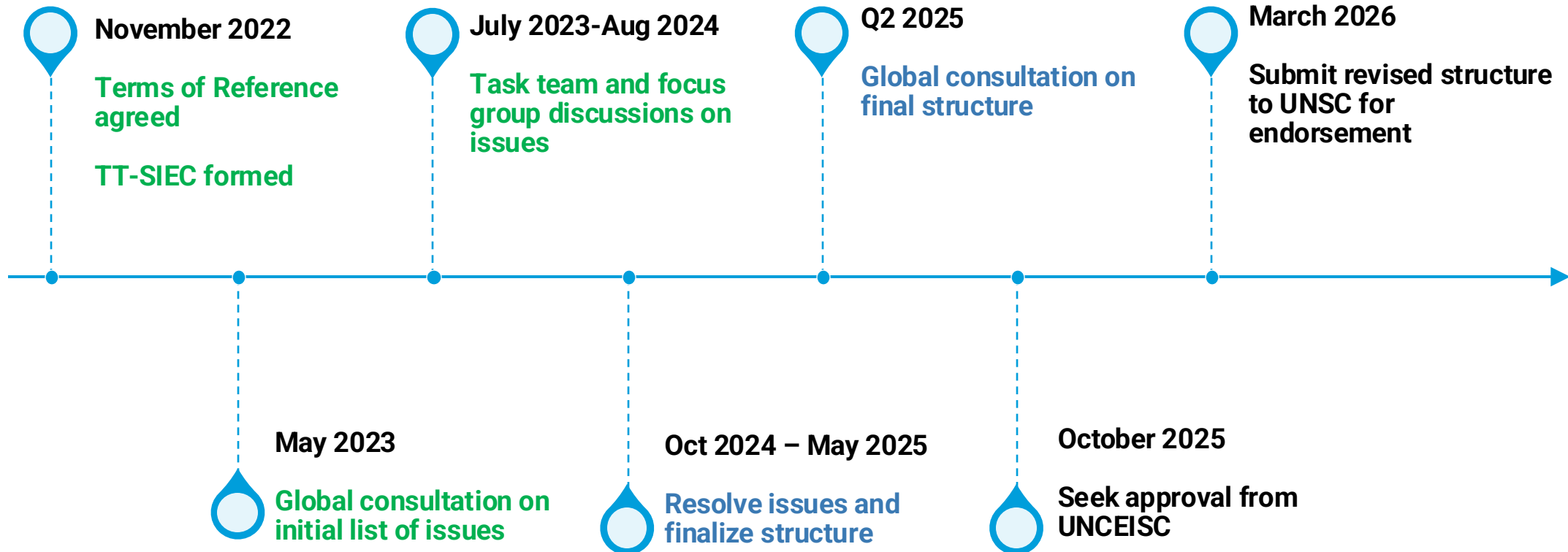
Revision of SIEC

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Revision of SIEC

Updated Timeline



Revision of SIEC

Alignment with CPC

Changes made in CPC to better align with SIEC, e.g.

- Added breakdowns for coal (anthracite, bituminous and sub-bituminous coal, lignite)
- Added breakdown for peat/peat briquettes
- Split coke and semi-coke of coal from that of peat (similarly with coal tar/peat tar)
- Split crude oil from petroleum oils/oils obtained from bituminous minerals

Changes made in SIEC to better align with CPC, e.g.

- Remove distinction between sod and milled peat

Full alignment not always possible/desirable

- Example of waste: “industrial/municipal” breakdown was aligned with CPC, but did not fit requirements of energy statistics



Original SIEC	
6	Waste
61	Industrial waste
610	Industrial waste
6100	Industrial waste
62	Municipal waste
620	Municipal waste
6200	Municipal waste

Revised SIEC		
F	Solid post-consumer waste, industrial by-products, and related energy products derived from these materials	Section
F1	Solid post-consumer waste and industrial by-products	Division
F11	Solid post-consumer waste and industrial by-products with minimal processing, except solid biofuels and solid synthetic fuels	Group
F111	Content of biogenic materials in the solid post-consumer waste and industrial by-products with minimal processing	Group
	<i>Of which: Municipal content</i>	
	<i>Of which: Industrial content</i>	
F112	Content of non-biogenic materials in the solid post-consumer waste and industrial by-products with minimal processing	Class
	<i>Of which: Municipal content</i>	
	<i>Of which: Industrial content</i>	
F2	Solid energy products derived from post-consumer waste and industrial by-products	Division
F21	Solid energy products derived from post-consumer waste and industrial by-products, except solid biofuels and solid synthetic fuels	Group
F211	Content of biogenic materials in the solid energy products derived from post-consumer waste and industrial by-products	Division
	<i>Of which: Municipal content</i>	
	<i>Of which: Industrial content...</i>	
F212	Content of non-biogenic materials in the solid energy products derived from post-consumer waste and industrial by-products...	Group...



Revision of SIEC

Other Significant Decisions

Biofuels

New breakdowns for:

- Biogasoline, i.e. biomethanol and bioethanol
- Biodiesels, including vegetable oil
- Gaseous biofuels products, i.e. biomethane



SIEC Revision

Other Significant Decisions

Electricity/Heat/Cold

- Significant expansion (previously just 'Electricity' and 'Heat' Sections with no breakdown)
- Addition of 'Cold' Section



SIEC Revision

Original SIEC	
7	Electricity
70	Electricity
700	Electricity
7000	Electricity

Revised SIEC		
G	Electricity	Section
G1	Electricity from non-combustible renewable energy sources	Division
G11	Electricity from hydro	Group
G13	Electricity from wind	Group
G14	Electricity from solar	Group
G141	Electricity from solar PV	Class
G142	Electricity from solar thermal	Class
G15	Electricity from geothermal	Group
...	...	
G2	Electricity from combustible renewable energy sources (biofuels)	Division
G3	Electricity from fossil fuels	Division
G4	Electricity from solid post-consumer waste, industrial by-products and related energy products derived from these materials	Division
G5	Electricity from nuclear	Division
G6	Electricity from synthetic fuels	Division
G9	Other electricity n.e.c.	Division



SIEC Revision

Original SIEC	
8	Heat
80	Heat
800	Heat
8000	Heat

Revised SIEC		
H	Heat	Section
H1	Heat from non-combustible renewable energy sources	Division
H11	Heat from solar thermal	Group
H12	Heat from geothermal	Group
H121	Heat from deep geothermal	Class
H122	Heat from shallow geothermal	Class
...	...	
H2	Heat from combustible renewable energy sources (biofuels)	Division
H3	Heat from fossil fuels	Division
H4	Heat from solid post-consumer waste, industrial by-products, and related energy products derived from these materials	Division
H5	Heat from nuclear	Division
H6	Heat from chemical processes	Division
H7	Heat from other sources	Division



SIEC Revision

Other Significant Decisions

Synthetic fuels

- Not clearly defined or identified in original SIEC
- New top-level Section created for Synthetic fuels, including:
 - Hydrogen (previously under “Other hydrocarbons”) and Ammonia
 - CO₂-/Hydrogen-derived fuels such as synthetic methanol, methane, kerosene
 - Fuels derived from waste using chemical/thermal processing



SIEC Revision

Process for Finalization

Q2 2025

Global consultation on revised structure

Q3 2025

Final changes to structure based on consultation results

October 2025

Seek approval from UNCEISC

March 2026

Submit revised structure to UNSC for endorsement

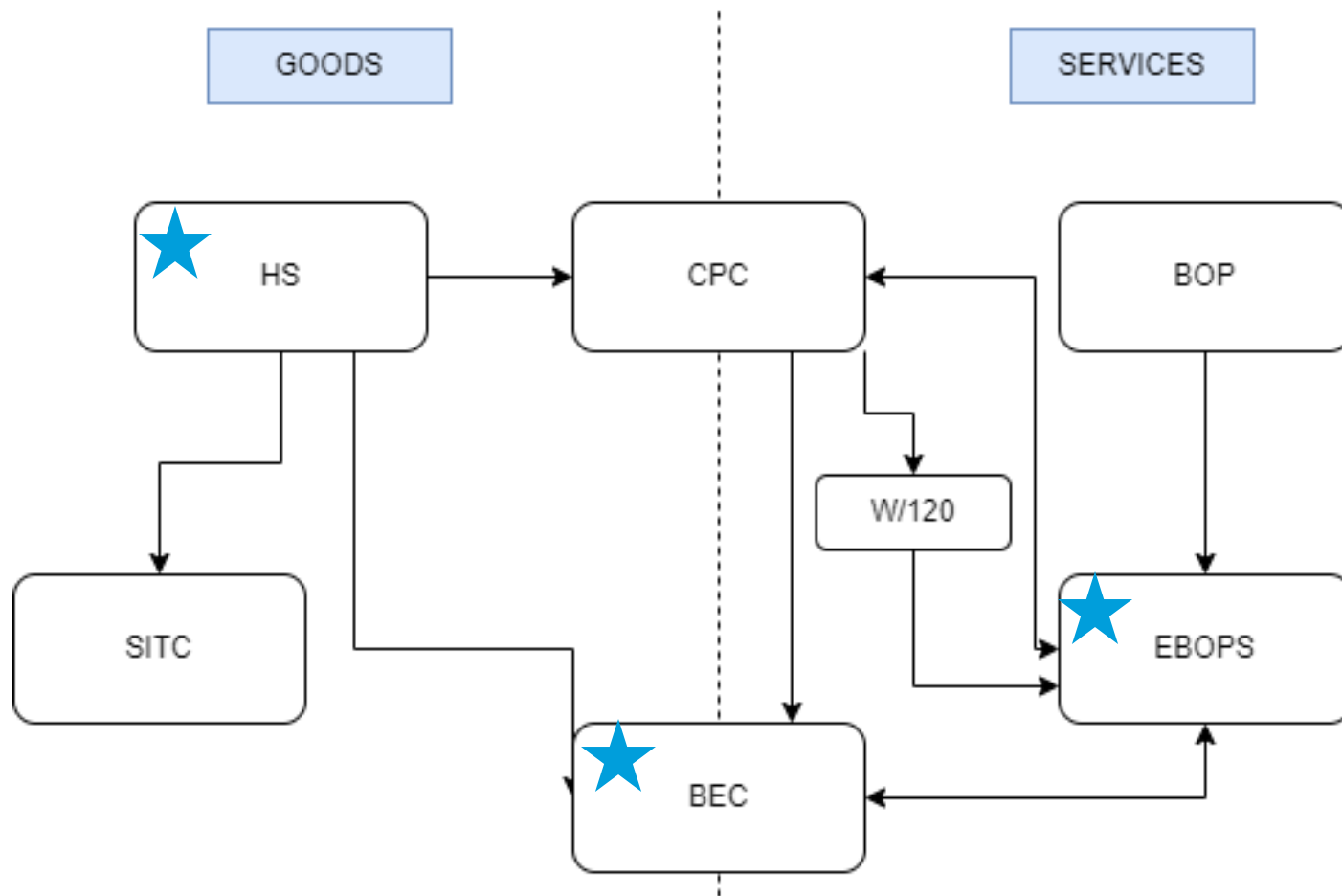


Trade Classifications

- ❖ Harmonized Commodity Description and Coding System (“Harmonized System”, or HS)
- ❖ Balance of Payments (BOP)
- ❖ Extended Balance of Payments Services (EBOPS)
- ❖ Broad Economic Categories (BEC)



Trade Classifications



Primary classifications in data collection

HS
EBOPS

Analytical classifications

SITC
BEC
W/120
CPC goods/services



Harmonized System (HS)

- Multipurpose international product nomenclature developed by the World Customs Organization (WCO)
- Use by **200+ countries** and economies as basis for their Customs tariffs and for the collection of international trade statistics. **Over 98%** of the merchandise in international trade is classified in terms of the HS
- Contributes to the harmonization of Customs and trade procedures, thus reducing the costs related to international trade
- Also extensively used by governments, international organizations and the private sector for many other purposes such as internal taxes, trade policies, monitoring of controlled goods, rules of origin, freight tariffs, transport statistics, price monitoring, quota controls, compilation of national accounts, and economic research and analysis



Harmonized System (HS)

CPC

0. Agriculture, forestry and fishery products
1. Ores and minerals; electricity, gas and water
2. Food products, beverages and tobacco; textiles, apparel and leather products
3. Other transportable goods, except metal products, machinery and equipment
4. Metal products, machinery and equipment

Goods (including transportable KCPs)

-
5. Constructions and construction services
 6. Distributive trade services; accommodation, food and beverage serving services; transport services; and electricity, gas and water distribution services
 7. Financial and related services; real estate services; and rental and leasing services
 8. Business and production services
 9. Community, social and personal services

Services (including non-transportable KCPs)



Harmonized System (HS)

Correspondence with CPC

CPC Ver. 2.1	CPC Ver. 2.1 title	HS 2022 code	HS 2022 description
01270	Mushrooms and truffles	070951	Vegetables; mushrooms of the genus <i>Agaricus</i> , fresh or chilled
01270	Mushrooms and truffles	070952	Vegetables; mushrooms of the genus <i>Boletus</i> , fresh or chilled
01270	Mushrooms and truffles	070953	Vegetables; mushrooms of the genus <i>Cantharellus</i> , fresh or chilled
01270	Mushrooms and truffles	070954	Vegetables; shiitake mushrooms (<i>Lentinus edodes</i>), fresh or chilled
01270	Mushrooms and truffles	070955	Vegetables; matsutake mushrooms (<i>Tricholoma matsutake</i> , <i>Tricholoma magn</i>)
01270	Mushrooms and truffles	070956	Vegetables; truffles (<i>Tuber</i> spp.), fresh or chilled
01270	Mushrooms and truffles	070959	Vegetables; truffles and mushrooms n.e.c. in heading 0709, fresh or chilled
01379	Other nuts (excluding wild edible nuts and groundnuts), in shell	080261	Nuts, edible; macadamia, fresh or dried, in shell
01379	Other nuts (excluding wild edible nuts and groundnuts), in shell	080270	Nuts, edible; kola nuts (<i>Cola</i> spp.), fresh or dried, whether or not shelled or pe
01379	Other nuts (excluding wild edible nuts and groundnuts), in shell	080280	Nuts, edible; areca nuts, fresh or dried, whether or not shelled or peeled
01379	Other nuts (excluding wild edible nuts and groundnuts), in shell	080291	Nuts, edible; pine nuts, fresh or dried, in shell
01379	Other nuts (excluding wild edible nuts and groundnuts), in shell	080292	Nuts, edible; pine nuts, fresh or dried, shelled
01379	Other nuts (excluding wild edible nuts and groundnuts), in shell	080299	Nuts, edible; n.e.c. in heading 0801 and 0802, fresh or dried, whether or not sh



Balance of Payments

What is the BOP?

When GDP is derived from the expenditure side, allowance has also to be made for:

- Goods & services produced by non-residents but consumed by residents
- Goods & services produced by residents but consumed abroad

For the integrated framework of the SNA to be comprehensive in coverage, all transactions with rest of the world have to be identified, so their impact on measures relating to the resident economy is properly accounted for

The complete set of transactions with the rest of the world in the integrated framework of national accounts matches exactly the set of transactions captured in the **balance of payments**

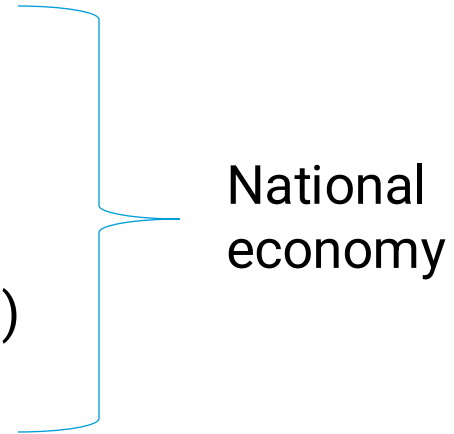


Balance of Payments

Institutional Sectors

- Non-financial corporations
- Financial corporations
- Government
- Non-profit institutions serving households (NPISH)
- Households

- Rest of the world



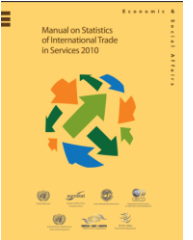
Balance of payments	Credits	Debits	Balance
Current account			
Goods and services	540	499	41
Goods	462	392	70
Services	78	107	-29
Primary income	50	40	10
Compensation of employees	6	2	
Interest	13	21	
Distributed income of corporations	17	17	
Reinvested earnings	14	0	
Rent	0	0	
Secondary income	17	55	-38
Current taxes on income, wealth, etc.	1	0	
Net nonlife insurance premiums	2	11	
Nonlife insurance claims	12	3	
Current international cooperation	1	31	
Miscellaneous current transfers	1	10	
Adjustment for change in pension entitlements			
Current account balance			13
Capital account			
Acquisitions/disposals of nonproduced nonfinancial assets	0	0	
Capital transfers	1	4	
Capital account balance			-3
Net lending (+)/net borrowing (-) (from current and capital accounts)			10
	Net acquisition of financial assets	Net incurrence of liabilities	Balance
Financial account (by functional category)			
Direct investment	8	11	
Portfolio investment	18	14	
Financial derivatives (other than reserves) and ESOs	3	0	
Other investment	20	22	
Reserve assets	8		
Total changes in assets/liabilities	57	47	
Net lending (+)/net borrowing (-) (from financial account)			10
Net errors and omissions			0



Extended Balance of Payments Services

What is EBOPS?

- EBOPS further disaggregates the BPM services classification into more detailed subsystems, offering a higher level of granularity
- Provides for further breakdowns to meet a number of user requirements, including for national accounts and the provision of information required in connection with the General Agreement on Trade in Services (GATS)
- Published in the Manual on Statistics of International Trade in Services (MSITS)
- Close alignment with the CPC ensures consistency and comparability across services product classifications



Extended Balance of Payments Services

EBOPS 2010

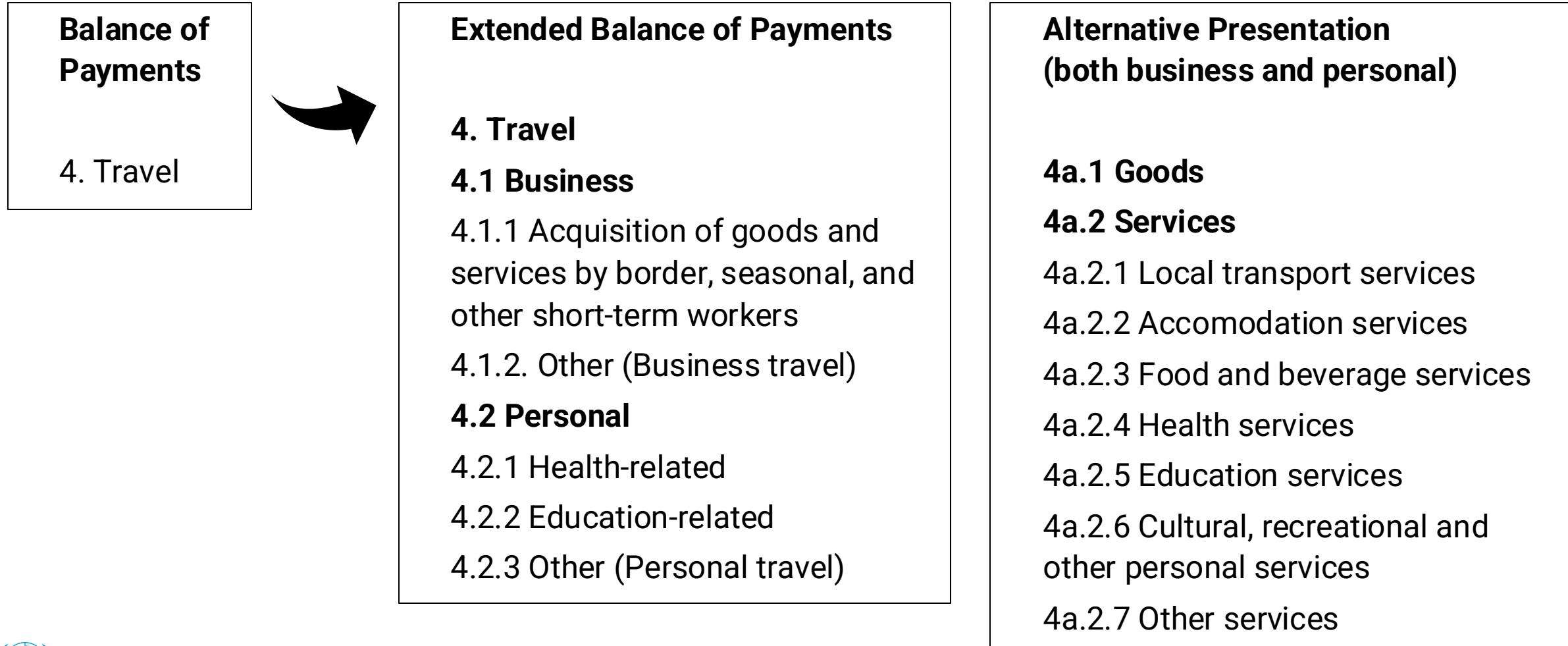
1. Manufacturing services on physical inputs owned by others
2. Maintenance and repair services n.i.e.
3. Transport
4. Travel
5. Construction
6. Insurance and pension services
7. Financial services
8. Charges for the use of intellectual property n.i.e.
- 9. Telecommunications, computer and information services**
- 10. Other business services**
11. Personal, cultural and recreational services
12. Government goods and services n.i.e.

EBOPS 2026 (draft)

1. Manufacturing services on physical inputs owned by others
2. Maintenance and repair services n.i.e.
3. Transport
4. Travel
5. Construction
6. Insurance and pension services
7. Financial services
8. Charges for the use of intellectual property n.i.e.
- 9. Telecommunications services**
- 10. Computer and information services**
- 11. Research and development services**
- 12. Professional and management consulting services**
- 13. Nonfinancial intermediation services**
- 14. Operating leasing services**
- 15. Technical, environmental, and other business services**
16. Personal, cultural and recreational services
17. Government goods and services n.i.e.



Extended Balance of Payments Services



Extended Balance of Payments Services

Correspondence with CPC

EBOPS2026	CPC3.0	EBOPSTitle	CPC3.0Title
1	88	Manufacturing services on physical inputs owned by others	Manufacturing services on physical inputs owned by others
1	892	Manufacturing services on physical inputs owned by others	Moulding, pressing, stamping, extruding and similar plastic manufacturing services
1	893	Manufacturing services on physical inputs owned by others	Casting, forging, stamping and similar metal manufacturing services
1	854	Manufacturing services on physical inputs owned by others	Packaging services
2	8711	Maintenance and repair services n.i.e.	Maintenance and repair services of fabricated metal products, except machinery and
2	8712	Maintenance and repair services n.i.e.	Maintenance and repair services of office and accounting machinery
2	8714	Maintenance and repair services n.i.e.	Maintenance and repair of transport machinery and equipment
2	8715	Maintenance and repair services n.i.e.	Maintenance and repair services of other machinery and equipment
2	872	Maintenance and repair services n.i.e.	Repair services of other goods



Broad Economic Categories

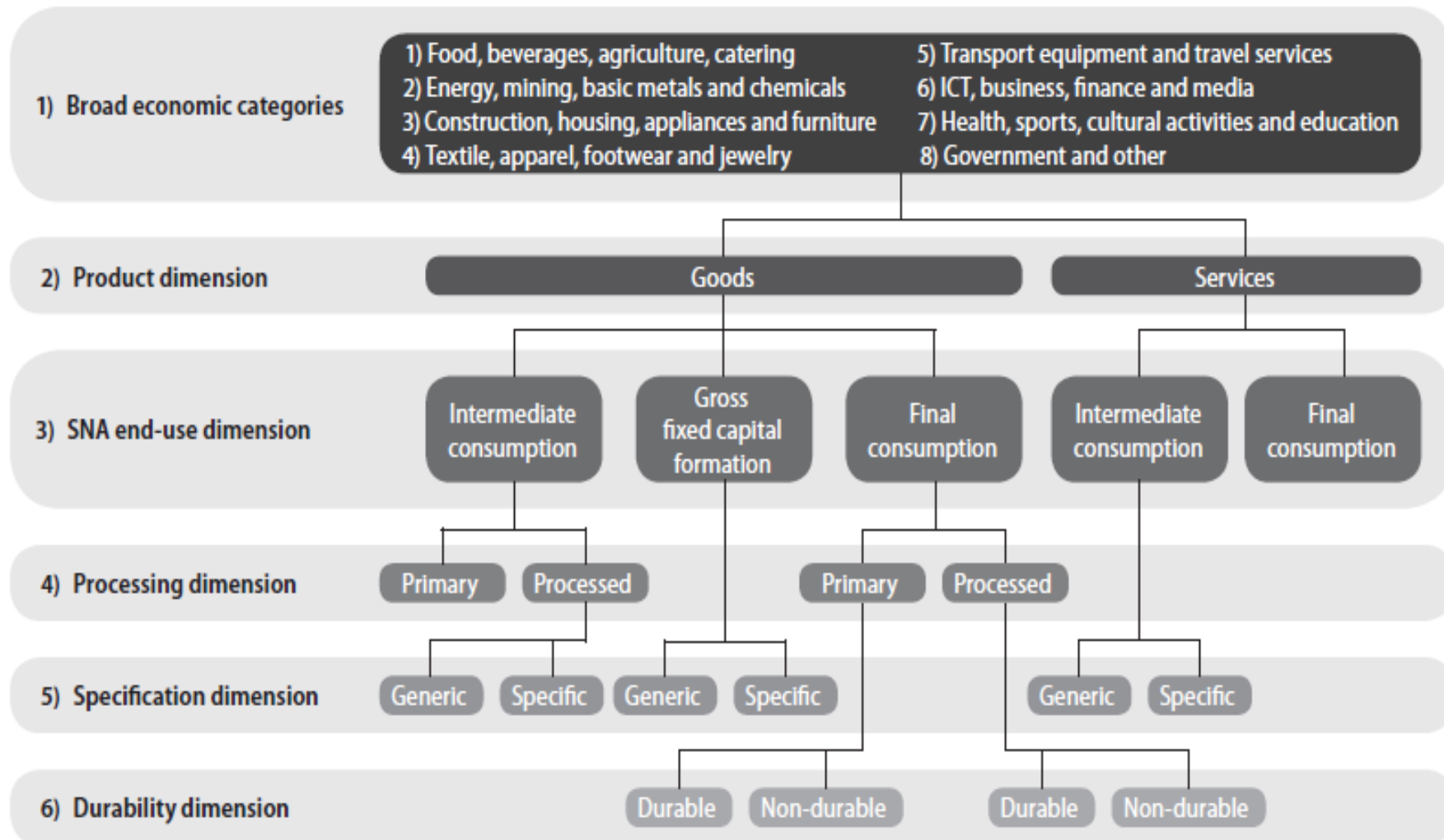
BEC is essentially a **high-level aggregation of existing product classifications**

It **provides an overview of international trade** based on the detailed commodity classifications in the Standard International Trade Classification (SITC), the Harmonized Commodity and Coding System (HS) and the Central Product Classification (CPC)

Its comparative advantage has traditionally been the **classification of goods by end use category**. This facilitates a range of analytical applications, such as the relative integration of economies in global value chains, and statistical applications, such as commodity flow approaches to estimating gross domestic product (GDP)



Broad Economic Categories



Broad Economic Categories

Table 4.1
Breakdown of CPC and HS categories by top-level BEC categories

	BEC—broad economic categories	CPC Services	HS Goods
Category 1	Agriculture, forestry, fishing, food, beverages, tobacco	178	972
Category 2	Mining, quarrying, refinery, fuels, chemicals, electricity, water, waste treatment	75	983
Category 3	Construction, wood, glass, stone, basic metals, housing, electrical appliances, furniture	224	1313
Category 4	Textile, apparel, shoes, jewelry, leather	88	895
Category 5	Transport equipment and services, travel, postal services	136	180
Category 6	ICT, media, computers, business and financial services	289	441
Category 7	Health, pharmaceuticals, education, cultural, sport	126	178
Category 8	Government, military and other	168	139
Total	All products	1,284	5,101



Thank you!