The reusable solution for the dissemination of statistics

EU workshop on recent developments in business and consumer surveys
14/11/2016

ESTAT.B3 - IT solutions for statistical production
Marc Vanderperren

1 **Contexts & timelines**

2 **Scope**

3 **Q&A**

3 contexts

Eurostat

Directorates General of the **European Commission**

Potentially anyone in need of disseminating satistics

European Commission

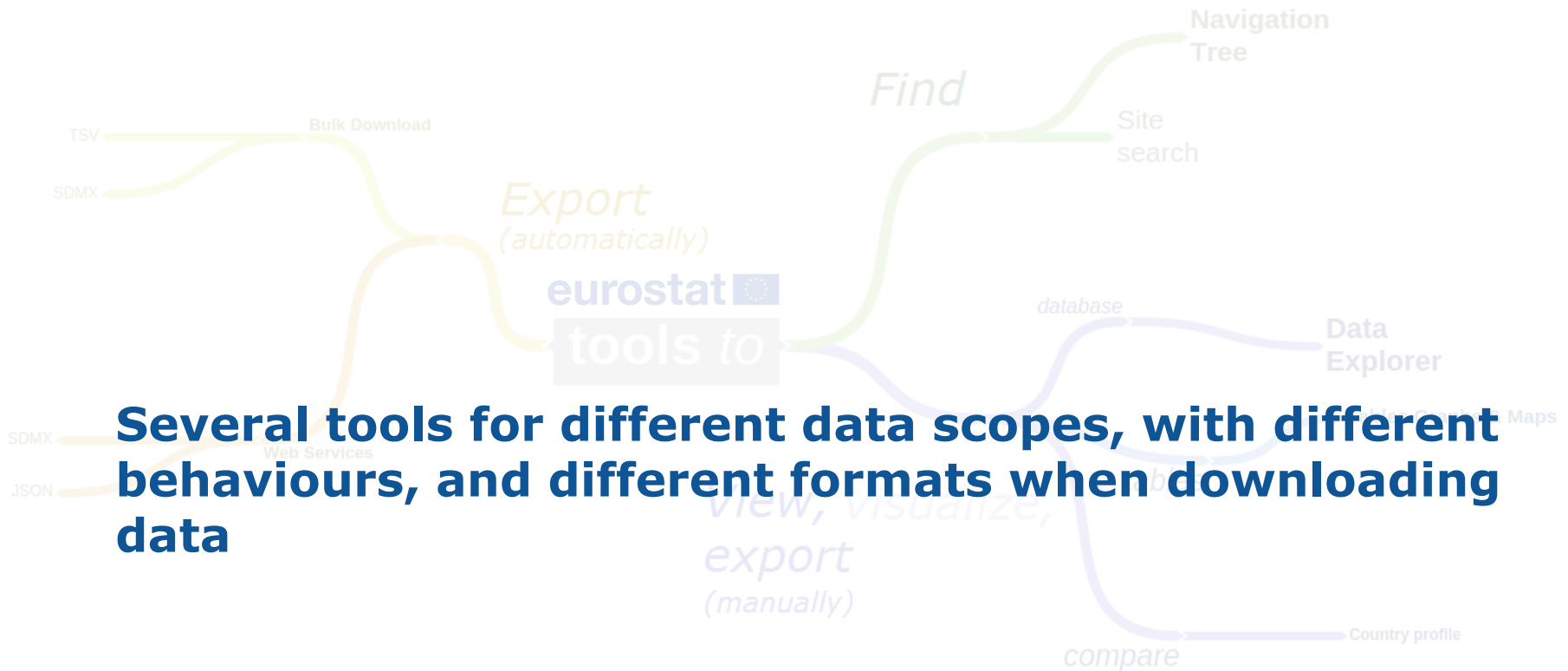| stakeholder	scope	data
eurostat	Renovation of "dissemination chain"	European statistics

Navigation
Tree

Find

Bulk Download

Site
search

TSV

SDMX

Export
(automatically)

eurostat

database

tools *to*

Data
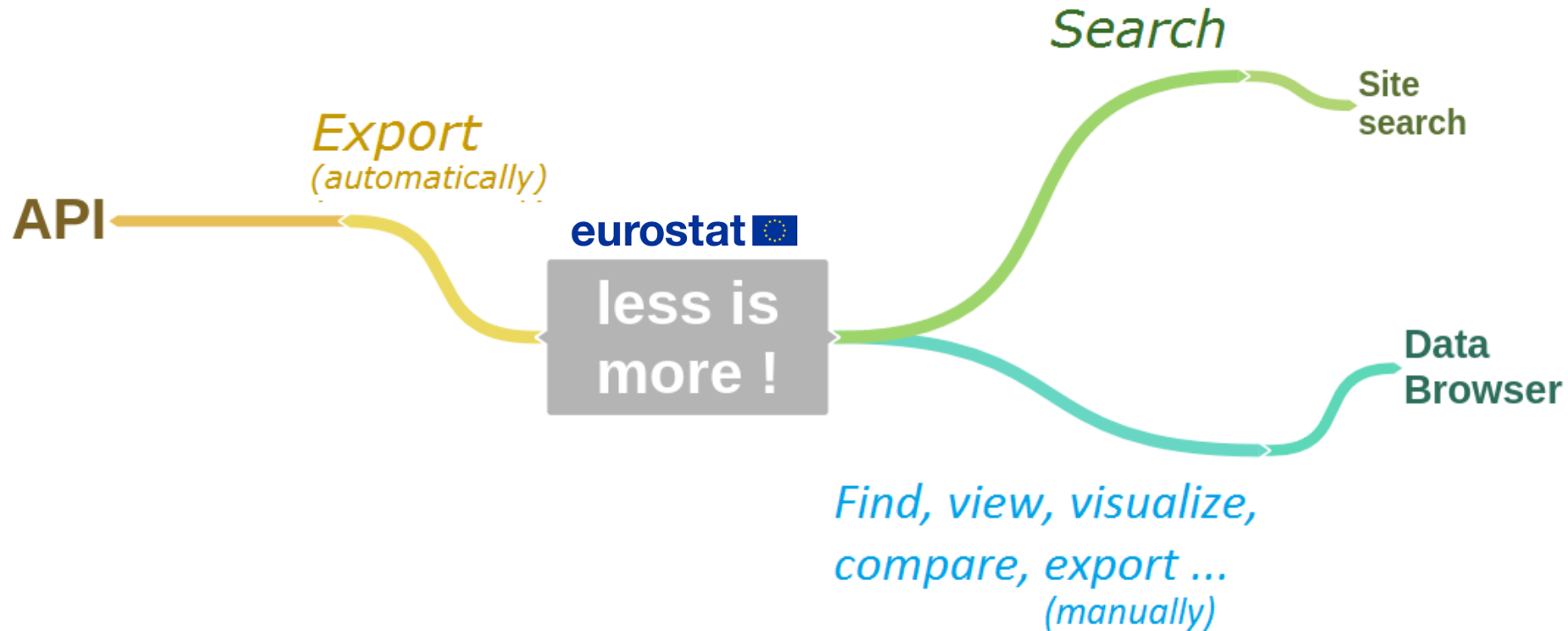Explorer

Maps

SDMX

Web Services

JSON

view, visualize,

export
(manually)

Several tools for different data scopes, with different behaviours, and different formats when downloading data

compare

Country profile

Processing **powered** (mainly) **by** **multiple back office tools**

In the FUTURE, disseminating with

Search

Site search

Export (automatically)

API

eurostat

less is more !

Data Browser

Find, view, visualize, compare, export ... (manually)

Processing powered by fewer, yet better integrated tools

Benefits

Consistent user experience

Integrated dissemination systems

Simplified operational management, better support for Eurostat Business Processes

Reduced technical complexity and maintenance costs

2017 to 2018 timeline

2017 Q2
consultations
- Data Browser
- API

2017 Q4
Completion of developments

2018 S1
Tests &
prep transition

2018 Q3
// run &
GO LIVE

2nd context

stakeholder | scope | data

eurostat

Renovation of "dissemination chain"

European statistics

Reusable solution for dissemination

other statistics

Dissemination means the activity of making statistics and statistical analysis accessible to users.

The **project aims at providing a reusable solution for the dissemination of statistics (cross policy & cross sector) to significantly improve technical interoperability in the fields of statistics, i.e. allowing multiple organisation to expose the same dissemination tools towards data consumers**.

The dissemination tools included in the solution are based on the established SMDX standards (information model, guidelines for web services, implementations & tools);

import

Store
- PREVIEW
- LIVE

release

API

Data Browser

admin
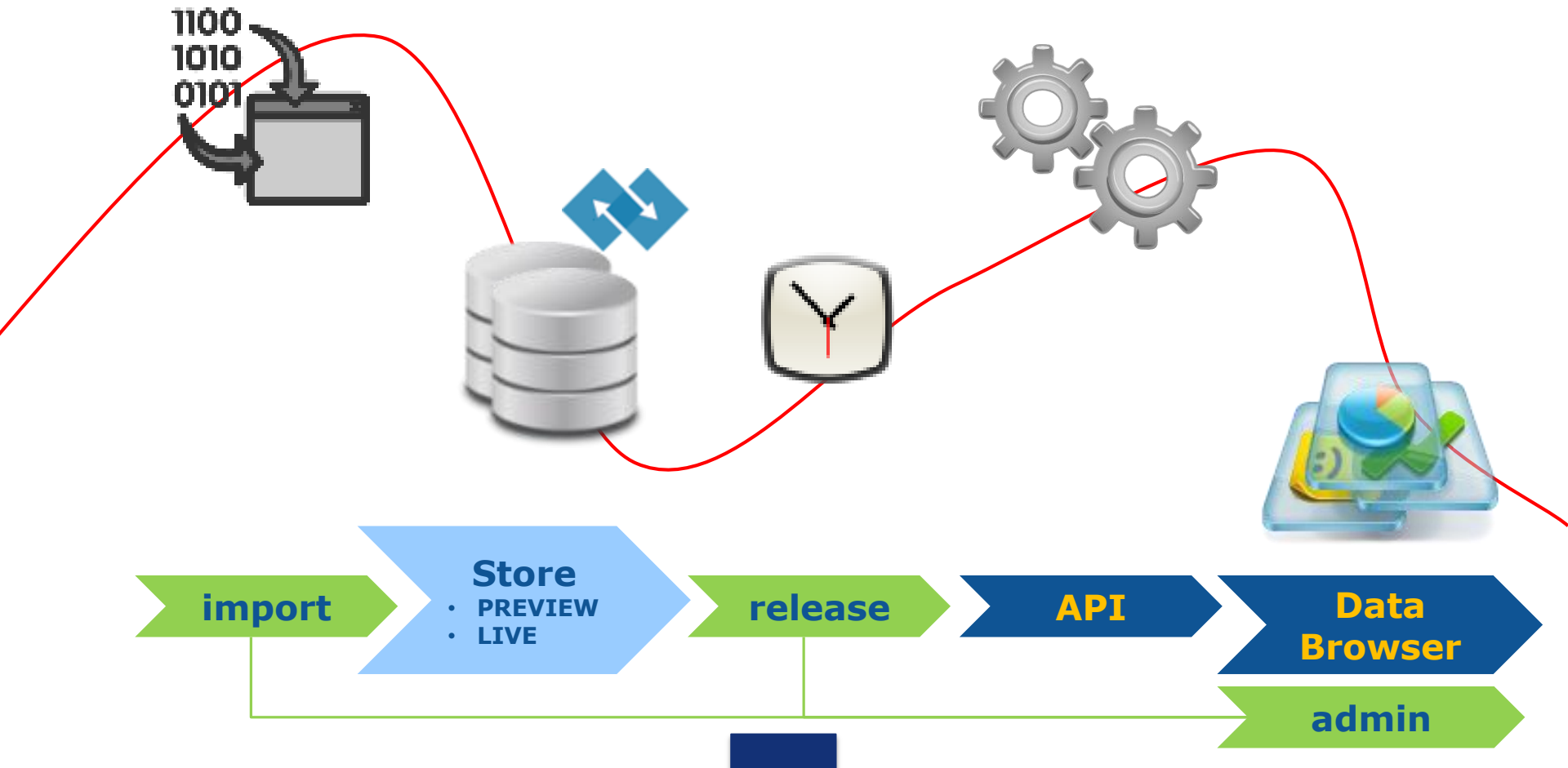
Benefits

What benefit?	How is it achieved?	Why is this relevant?
Rationalisation		
Simplification		
Strengthening collaborations		

Joint project agreements

Currently 2 pilots, more in preparation

Clearly defined
- Responsibilities
- List of deliverables
- Target milestones

ECFIN dissemination data scope

Business Consumer Surveys (BCS)

AMECO online (macroeconomic forecasts)

2017 timeline

2017 Jan
2nd release

2017 Q2
3rd release

2017 March functional assessment 2 pilot DGs

2017 Q4
4th release
***Ready* for prod (2 pilots + additional DGs)**

2018
Maint. releases (not yet planned)

stakeholder   scope   data

joinup

anybody

Reusable solution for dissemination

any statistics

Collaborative platform

Several services that **aim to help e-Government professionals share their experience with each other**.

Created by the European Commission and funded by the European Union via the Interoperability Solutions for European Public Administrations (ISA) Programme.

Timeline joinup

Availability of the reusable solution for the dissemination of statistics on joinup for usage by anyone

Target end 2018

ISA² http://ec.europa.eu/isa/isa2/index_en.htm

Programme to support the development of **interoperable digital solutions**, available to all interested **public administrations in Europe**

The main beneficiaries of ISA² are public administrators at EU, national, regional and local level (direct beneficiaries), as well as citizens and businesses (indirect beneficiaries).
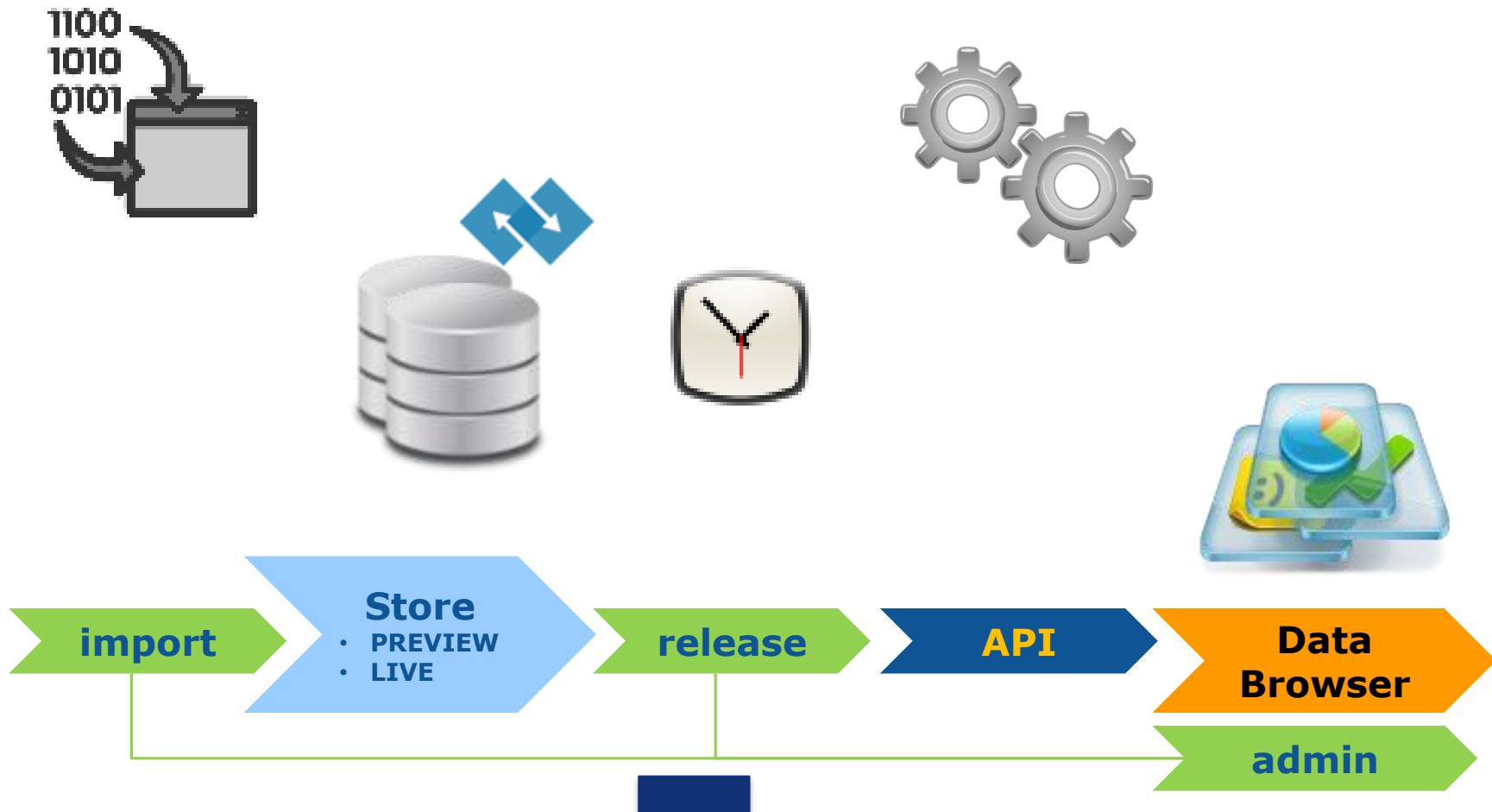
| 1 | **Contexts & timelines** |

| 2 | **Scope** |

| 3 | **Progress, timeline, reporting** |

European Commission

import

Store
- PREVIEW
- LIVE

release

API

Data Browser

admin

Data Browser

FIND

*Support the user to **find statistical products in a data catalogue***

VIEW & VISUALIZE

*Support an **harmonized experience in presenting statistical data** to the user **with simple configuration mechanisms***

EXPORT

*Support various **data extractions patterns** and formats to help user engage in **data post-processing** or **sharing**.*

eurostat statistical data

All data ▾   Quick access to tree category

≡ ALL DATA EU POLICY INDICATORS WHAT'S NEW AT A GLANCE

SELECTED ITEMS (0)

General and regional statistics

Economy and finance

Population and social conditions

Industry, trade and services

Agriculture, forestry and fisheries

International trade

Transport

Environment and energy

Science and technology

Welcome

Eurostat Statistical data contains the full range of data publically available at Eurostat. You can - among others things - find, compare, create your own selection and save these in different file formats. Eurostat Statistical data is updated twice a day at 11.00 and 23.00.
Ways to access data:

- by keyword using the search tool
- by selecting a theme
- or browser the Popular and Recent data from the top menu

Hide this

🔒 Access administration interface

eurostat statistical data

All data ▾   Quick access to tree category

☰ **ALL DATA** EU POLICY INDICATORS WHAT'S NEW AT A GLANCE   SELECTED ITEMS (0)

General and regional statistics	**Welcome**
Economy and finance	Eurostat Statistical data contains the full range of data publically available at Eurostat. You can - among others things - find, compare, create your own selection and save these in different file formats. Eurostat Statistical data is updated twice a day at 11.00 and 23.00.
Population and social conditions	Ways to access data:
Industry, trade and services	• by keyword using the search tool
Agriculture, forestry and fisheries	• by selecting a theme
International trade	• or browser the Popular and Recent data from the top menu
Transport	
Environment and energy	Hide this
Science and technology	

eurostat statistical data

All data ▾   Quick access to tree category

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General and regional statistics

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Hide this

https://webgate.test.ec.europa.eu/estat/data/#/explore/all/economy?display=list&sort=category

🔒 Access administration interface

eurostat statistical data

All data ▾ | Quick access to tree category

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eurostat statistical data

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☰ ALL DATA EU POLICY INDICATORS WHAT'S NEW AT A GLANCE   SELECTED ITEMS (0)

Population and social conditions

❯ Demography and migration ②	pop
❯ Asylum and managed migration ⓪	migr
❯ Population projections ⓪	proj
❯ Population and housing census ⓪	cens
❯ Health ⓪	hlth
❯ Education and training ⓪	edtr
❯ Labour market ⑭	labour
❯ Living conditions and welfare ①	livcon
❯ Social protection ⓪	spr
❯ Youth ⓪	yth
❯ Culture ⓪	cult
◉ Crime and criminal justice ⓪	crim

sort: | category | date |

Demography and migration

■ Population change - Demographic balance and crude rates at national level   ⊞ ⬇ API M   DEMO_GIND

Immigration

■ Immigration by five year age group, sex and citizenship   ⊞ ⬇ API M   MIGR_IMM1CTZ

Employment - LFS adjusted series

■ Employees with a contract of limited duration (annual average)   ⊞ ⬇ API M   TPS00073

■ Persons employed part-time - Total   ⊞ ⬇ API M   TPS00159

■ Employment rate of older workers   ⊞ ⬇ API M   TSDDE100

■ Employment rate, by sex   ⊞ ⬇ API M   TSDEC420

■ Employment (main characteristics and rates) - annual averages   ⊞ ⬇ API M   LFSI_EMP_A

Unemployment - LFS adjusted series

■ Harmonised unemployment rate by sex   ⊞ ⬇ API M   TEILM020

■ Harmonised unemployment rate by sex - age group 15-24   ⊞ ⬇ API M   TEILM021

■ Harmonised unemployment rate by sex - age group 25-74   ⊞ ⬇ API M   TEILM022

(showing 10 of 17 references)

more...

🔒 Access administration interface

eurostat statistical data

All data ▾   Quick access to tree category

≡ ALL DATA   EU POLICY INDICATORS   WHAT'S NEW   AT A GLANCE   SELECTED ITEMS (0)

Population and social conditions

> Demography and migration ②   pop
> Asylum and managed migration ⓪   migr
> Population projections ⓪   proj
> Population and housing census ⓪   cens
> Health ⓪   hlth
> Education and training ⓪   edtr
∨ Labour market 14   labour
  ∨ Employment and unemployment (Labour Force Survey) 9
                                                        labour.employ
    ∨ LFS main indicators 9   labour.employ.lfsi
      ⊙ Population, activity and inactivity - LFS adjusted series ⓪
                                                labour.employ.lfsi.lfsi_act
      ⊙ Employment - LFS adjusted series ⑤   labour.employ.lfsi.lfsi_emp
      ⊙ Unemployment - LFS adjusted series ④ labour.employ.lfsi.une
    > LFS series - Detailed quarterly survey results (from 1998) ⓪
                                                        labour.employ.lfsq
    > LFS series - Detailed annual survey results ⓪   labour.employ.lfsa
    > LFS series - Specific topics ⓪   labour.employ.lfst
    > LFS ad-hoc modules ⓪   labour.employ.lfso
  > Job vacancy statistics ⓪   labour.jvs
  > Earnings ①   labour.earn
  > Labour costs ④   labour.lc
  > Labour market policy (source: DG EMPL) ⓪   labour.lmp

sort: [category] [date]

Employment - LFS adjusted series

■ Employees with a contract of limited duration (annual average)   TPS00073
■ Persons employed part-time - Total   TPS00159
■ Employment rate of older workers   TSDDE100
■ Employment rate, by sex   TSDEC420
■ Employment (main characteristics and rates) - annual averages   LFSI_EMP_A

Unemployment - LFS adjusted series

■ Harmonised unemployment rate by sex   TEILM020
■ Harmonised unemployment rate by sex - age group 15-24   TEILM021
■ Harmonised unemployment rate by sex - age group 25-74   TEILM022
■ Unemployment rate by sex and age groups - monthly average, %   UNE_RT_M

eurostat statistical data

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All data ▼ | Quick access to tree category

Harmonised unemployment rate by sex ⓘ **Code:** UNE_RT_M$TEILM020 **last update:** Aug 6, 2015

PRESENTATION SELECTED ITEMS (0)

All data / Population and social conditions / Labour market / ... / Unemployment - LFS adjusted series

Presentation: **Sex** [3]: Females (F) **Geopolitical entity (reporting)** [38]: All values **Time period** [12]: All values

Frequency (M) , Seasonal adjustment (SA) , Age class (TOTAL)

View: ▦ 📈 📊 📍

| FILTER | FORMAT | CUSTOMISE |

▶ Sex

Females (F)

▶ Geopolitical entity (reporting)

All

▶ Time period

All

Time period ▶ Geopolitical entity (reporting) ⌄	2014-11 ⌄	2014-12 ⌄	2015-01 ⌄	2015-02 ⌄	2015-03 ⌄	2015-04 ⌄	2015-05 ⌄	2015-06 ⌄	2015-07 ⌄
Euro area (EA11-2000, ...	11,7	11,6	11,4	11,4	11,4	11,3	11,3	11,3	:
Euro area (19 countries)	11,7	11,6	11,4	11,4	11,4	11,3	11,3	11,3	:
Euro area (18 countries)	11,7	11,6	11,5	11,4	11,4	11,4	11,3	11,3	:
European Union (28 cou...	10,1	10	9,9	9,9	9,8	9,8	9,7	9,8	:
European Union (27 cou...	10,1	9,9	9,9	9,8	9,8	9,7	9,7	9,7	:
Belgium	8,3	8,2	8,1	8,1	8,1	8	8	8,1	:
Bulgaria	9,5	9,3	9,2	9,1	9,2	9,2	9,1	8,9	:
Czech Republic	7	6,8	6,9	6,9	6,6	6,4	6,1	6	:
Denmark	6,4	6,2	6,4	6,3	6,3	6,3	6,4	6,6	:
Germany (until 1990 fo...	4,6	4,5	4,5	4,5	4,4	4,4	4,4	4,4	:
Estonia	6,5	6,1	5,8	5,8	6,2	6,8	6,6	:	:
Ireland	8,5	8,4	8,3	8,2	8	8,2	8,3	8,4	8,4
Greece	29,6	29,6	29,8	29,8	29,7	29,5	28,2	:	:
Spain	24,7	24,6	24,6	24,5	24,4	24,3	24,2	24,2	:
France	10,1	10,1	10	10	9,9	9,9	9,9	10	:
Croatia	18,1	17,8	17,3	16,8	16,5	16,1	15,7	15,3	:
Italy	14,5	13,7	13,1	13,1	13,2	13	12,8	13,1	:
Cyprus	15,6	15,7	15,8	16	16	16,1	16,2	16,3	:
Latvia	9,9	9,9	9,4	9,4	9,4	:	:	:	:
Lithuania	8,7	8,6	8,4	8,3	8,3	8,2	7,8	7,9	:
Luxembourg	6,3	6,2	6,2	6,3	6,2	6,3	6,3	6,2	:
Hungary	7,3	7,4	7,5	7,6	7,3	7,1	7,2	:	:
Malta	5,7	5,7	5,7	5,6	5,5	5,5	5,4	5,3	:
Netherlands	7,4	7,6	7,6	7,5	7,4	7,5	7,3	7,2	:
Austria	5,3	5,3	5,3	5,2	5,2	5,6	5,8	5,6	:
Poland	8,8	8,7	8,5	8,4	8,3	8,2	8,2	8,1	:
Portugal	13,7	13,9	14	14,1	13,4	13,2	12,4	12,9	:
Romania	6,1	6,1	6,1	6	6	6	6,2	5,9	:
Slovenia	10,1	10	10	10,2	10,4	10,5	10,6	10,6	:
Slovakia	13,5	13,4	13,3	13,1	13,1	13,1	13,1	13,1	:
Finland	8,3	8,4	8,5	8,6	8,7	8,8	8,9	9	:
Sweden	7,7	7,2	7,8	7,7	7,4	7,5	7,7	7,5	:
United Kingdom	5,3	5,3	5,4	5,3	5,3	5,4	:	:	:
Iceland	4,6	4,6	4,6	4,6	4,6	4,6	4,5	4,5	:

🔒 Access administration interface
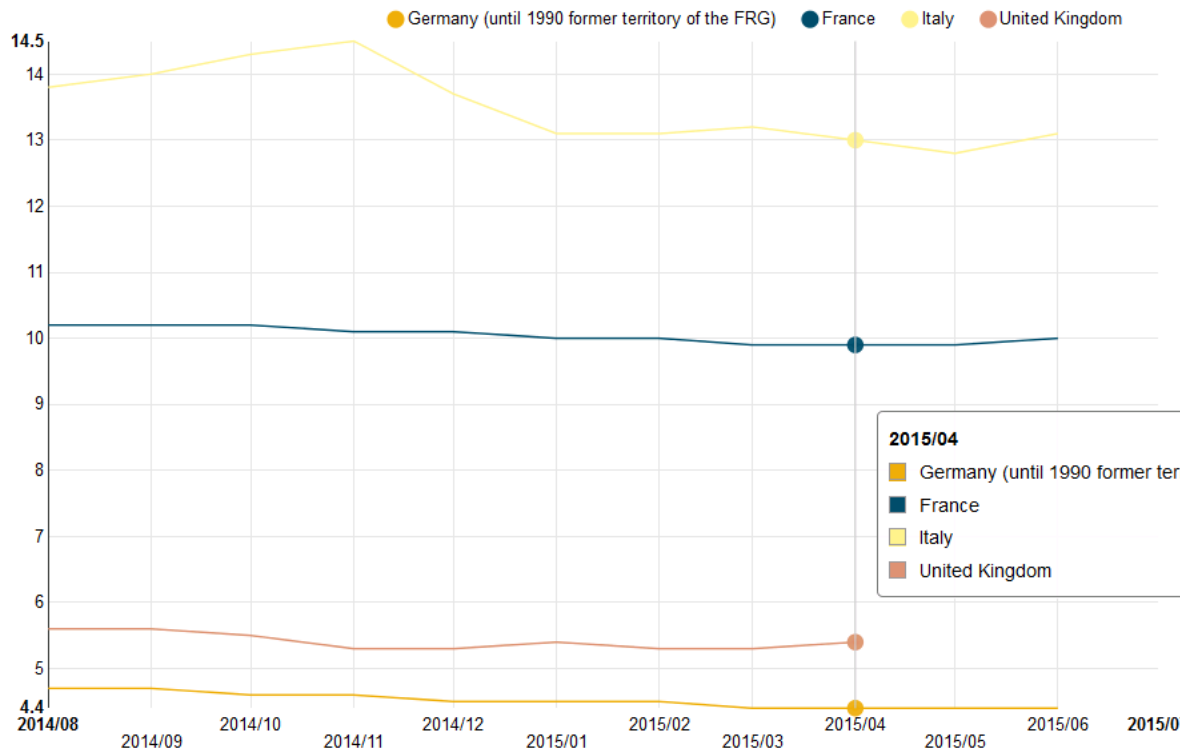
eurostat statistical data

All data ▼   Quick access to tree category

≡ 👥 Harmonised unemployment rate by sex ⓘ **Code:** UNE_RT_M$TEILM020 **last update:** Aug 6, 2015   ↺ 💾 *PRESENTATION* SELECTED ITEMS (0)

All data / Population and social conditions / Labour market / ... / Unemployment - LFS adjusted series

Presentation: **Sex** [3]: Females (F) **Geopolitical entity (reporting)** [38]: 4 values **Time period** [12]: All values   ➕⬇️API M ▥   Frequency (M) , Seasonal adjustment (SA) , Age class (TOTAL)

Geopolitical entity (rep Time period ⌄	Germany (until 1990 former territ ⌄	France ⌄	Italy ⌄	United Kingdom ⌄
2015-07	:	:	:	:
2015-06	4,4	10	13,1	:
2015-05	4,4	9,9	12,8	:
2015-04	4,4	9,9	13	5,4
2015-03	4,4	9,9	13,2	5,3
2015-02	4,5	10	13,1	5,3
2015-01	4,5	10	13,1	5,4
2014-12	4,5	10,1	13,7	5,3
2014-11	4,6	10,1	14,5	5,3
2014-10	4,6	10,2	14,3	5,5
2014-09	4,7	10,2	14	5,6
2014-08	4,7	10,2	13,8	5,6

View: ▥ 📈 📊 📍

FILTER	FORMAT	CUSTOMISE

○ Cyprus (CY)
○ Latvia (LV)
○ Lithuania (LT)
○ Luxembourg (LU)
○ Hungary (HU)
○ Malta (MT)
○ Netherlands (NL)
○ Austria (AT)
○ Poland (PL)
○ Portugal (PT)
○ Romania (RO)
○ Slovenia (SI)
○ Slovakia (SK)
○ Finland (FI)
○ Sweden (SE)
● **United Kingdom (UK)**
○ Iceland (IS)
○ Norway (NO)
○ Turkey (TR)
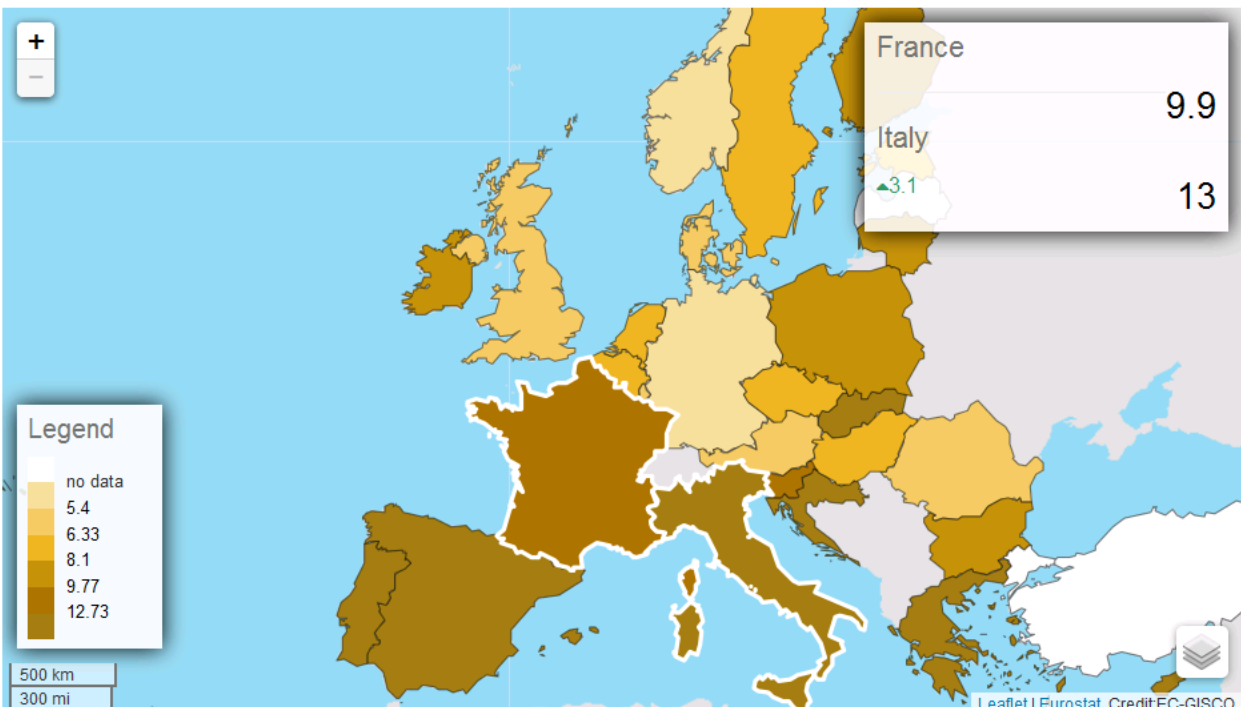○ United States (US)
○ Japan (JP)

▶ **Time period**

All

eurostat statistical data

All data ▾

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↻ 💾 *PRESENTATION* SELECTED ITEMS (0)

All data **/** Population and social conditions **/** Labour market **/** ... **/** Unemployment **-** LFS adjusted series

Presentation: **Sex** [3]: Females (F) **Geopolitical entity (reporting)** [38]: 4 values **Time period** [12]: All values

Download content

➕ ⬇ API M 📋

Frequency (M) , Seasonal adjustment (SA) , Age class (TOTAL)

Geopolitical entity (rep Time period ⌄	Germany (until 1990 former territ ⌄	France ⌄	Italy ⌄	United Kingdom ⌄
2015-07	:	:	:	:
2015-06	4,4	10	13,1	:
2015-05	4,4	9,9	12,8	:
2015-04	4,4	9,9	13	5,4
2015-03	4,4	9,9	13,2	5,3
2015-02	4,5	10	13,1	5,3
2015-01	4,5	10	13,1	5,4
2014-12	4,5	10,1	13,7	5,3
2014-11	4,6	10,1	14,5	5,3
2014-10	4,6	10,2	14,3	5,5
2014-09	4,7	10,2	14	5,6
2014-08	4,7	10,2	13,8	5,6

View: ▦ 📈 📊 📍

FILTER | FORMAT | CUSTOMISE

○ Cyprus (CY)
○ Latvia (LV)
○ Lithuania (LT)
○ Luxembourg (LU)
○ Hungary (HU)
○ Malta (MT)
○ Netherlands (NL)
○ Austria (AT)
○ Poland (PL)
○ Portugal (PT)
○ Romania (RO)
○ Slovenia (SI)
○ Slovakia (SK)
○ Finland (FI)
○ Sweden (SE)
● **United Kingdom (UK)**
○ Iceland (IS)
○ Norway (NO)
○ Turkey (TR)
○ United States (US)
○ Japan (JP)

▶ **Time period**

All

https://webgate.test.ec.europa.eu/estat/data/

Download - Harmonised unemployment rate by sex

Full extraction   Current view extraction   Source data collection

Download XLS

Download HTML

Preview

Harmonised unemployment rate by sex

Geopolitical entity (reporting)

Time period	Germany (until 1990 former territory of the FRG)	France	Italy	United Kingdom
2014-08	4,7	10,2	13,8	5,6
2014-09	4,7	10,2	14	5,6
2014-10	4,6	10,2	14,3	5,5
2014-11	4,6	10,1	14,5	5,3
2014-12	4,5	10,1	13,7	5,3
2015-01	4,5	10	13,1	5,4
2015-02	4,5	10	13,1	5,3
2015-03	4,4	9,9	13,2	5,3
2015-04	4,4	9,9	13	5,4
2015-05	4,4	9,9	12,8	:
2015-06	4,4	10	13,1	:
2015-07	:	:	:	:

Close

○ United States (US)
○ Japan (JP)

▶ Time period

All

🔒 Access administration interface

eurostat statistical data

All data ▾   Quick access to tree category

👥 Harmonised unemployment rate by sex ⓘ **Code:** UNE_RT_M$TEILM020 **last update:** Aug 6, 2015

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➕ ⬇ API M 📋 Frequency (M) , Seasonal adjustment (SA) , Age class (TOTAL)

View: ▦ 📈 📊 📍

| FILTER | FORMAT | CUSTOMISE |

● Germany (until 1990 former territory of the FRG) ● France ● Italy ● United Kingdom

○ Cyprus (CY)
○ Latvia (LV)
○ Lithuania (LT)
○ Luxembourg (LU)
○ Hungary (HU)
○ Malta (MT)
○ Netherlands (NL)
○ Austria (AT)
○ Poland (PL)
○ Portugal (PT)
○ Romania (RO)
○ Slovenia (SI)
○ Slovakia (SK)
○ Finland (FI)
○ Sweden (SE)
● United Kingdom (UK)
○ Iceland (IS)
○ Norway (NO)
○ Turkey (TR)
○ United States (US)
○ Japan (JP)

2015/04
🟨 Germany (until 1990 former territory of the FRG) **4.4**
🟦 France **9.9**
🟨 Italy **13**
🟧 United Kingdom **5.4**

▶ **Time period**

All

2014 08 ——————————————————— 2015 07

2014-08 2014-09 2014-10 2014-11 2014-12 2015-01 2015-02 2015-03 2015-04 2015-05 2015-06 2015-07

eurostat statistical data

All data ▼   Quick access to tree category

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Presentation: **Sex** [3]: Females (F)   **Geopolitical entity (reporting)** [38]: All values   **Time period** [12]: (2015-04)

➕ ⬇ API M 📋   Frequency (M) , Seasonal adjustment (SA) , Age class (TOTAL)

France   **9.9**

Italy

▲3.1   **13**

Legend

- no data
- 5.4
- 6.33
- 8.1
- 9.77
- 12.73

500 km
300 mi

Leaflet | Eurostat, Credit:EC-GISCO

The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the European Union concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Kosovo*: This designation is without prejudice to positions on status, and is in line with UNSCR 1244/1999 and the ICJ Opinion on the Kosovo declaration of independence. Palestine*: This designation shall not be construed as recognition of a State of Palestine and is without prejudice to the individual positions of the Member States on this issue.

View: ▦ 📈 📊 📍

FILTER   FORMAT   CUSTOMISE

Map rendering:

☐ Display Other Geographical Entities

Map projection:

Europe   EPSG3035   EPSG4258

World   EPSG4326   EPSG3857

Map classification:

Method   Quantile

Number of classes: 6

2014 08   2015 04   2015 07

2014-08   2014-09   2014-10   2014-11   2014-12   2015-01   2015-02   2015-03   2015-04   2015-05   2015-06   2015-07

ECONOMIC AND FINANCIAL AFFAIRS
statistical data

All data ▾   Quick access to tree category

☰ **ALL DATA** WHAT'S NEW   SELECTED ITEMS (0)

Annual macro-economic database system

A

B

A

- ▸ 1- POPULATION AND EMPLOYMENT (19)
- ▸ 2 - CONSUMPTION (0)
- ▸ 3 - CAPITAL FORMATION AND SAVING, TOTAL ECONOMY AND SECTORS (0)
- ▸ 4 - DOMESTIC AND FINAL DEMAND (21)
- ▸ 5 - NATIONAL INCOME (0)
- ▸ 6 - DOMESTIC PRODUCT (0)
- ▸ 7 - GROSS DOMESTIC PRODUCT (INCOME APPROACH), LABOUR COSTS (0)
- ▸ 8 - CAPITAL STOCK (0)
- ▸ 9 - EXPORTS AND IMPORTS OF GOODS AND SERVICES, NATIONAL ACCOUNTS (0)
- 10 - BALANCES WITH THE REST OF THE WORLD, NATIONAL ACCOUNTS (0)
- ▸ 11 - FOREIGN TRADE (0)
- ▸ 12 - NATIONAL ACCOUNTS BY BRANCH OF ACTIVITY (0)
- ▸ 13 - MONETARY VARIABLES (0)
- ▸ 14 - CORPORATIONS (S11 + S12) (0)
- ▸ 15 - HOUSEHOLDS AND NPISH (S14 + S15) (0)
- ▸ 16 - GENERAL GOVERNMENT (S13) (0)
- ▸ 17 - CYCLICAL ADJUSTMENT OF PUBLIC FINANCE VARIABLES (0)
- ▸ 18 - GROSS PUBLIC DEBT (0)

sort: [category] [date]

4.1 - DOMESTIC DEMAND EXCLUDING CHANGE IN INVENTORIES

■ Domestic demand excluding stocks at constant prices	⊞ ⬇ API M	OUNF
■ Price deflator domestic demand excluding stock	⊞ ⬇ API M	PUNF
■ Domestic demand excluding stocks at current prices	⊞ ⬇ API M	UUNF

4.2 - DOMESTIC DEMAND INCLUDING CHANGE IN INVENTORIES

■ Domestic demand including stocks at constant prices	⊞ ⬇ API M	OUNT
■ Domestic demand including stocks at constant prices ; Performance relative to the rest of 14 EU countries (EU-15 excl. L): double export weights	⊞ ⬇ API M	OUNTQ
■ Price deflator domestic demand including stocks	⊞ ⬇ API M	PUNT
■ Domestic demand including stocks at current prices	⊞ ⬇ API M	UUNT

4.3 - FINAL DEMAND

■ Final demand at constant prices	⊞ ⬇ API M	OUTT
■ Price deflator final demand	⊞ ⬇ API M	PUTT
■ AFinal demand at current prices	⊞ ⬇ API M	UUTT

4.4 - CONTRIBUTIONS TO THE CHANGE OF THE FINAL DEMAND DEFLATOR

■ Contribution to the change of the final demand deflator of import prices	⊞ ⬇ API M	YPUT0
■ Contribution to the change of the final demand deflator of import prices excluding nominal effective exchange rates	⊞ ⬇ API M	YPUT1
■ Contribution to the change of the final demand deflator of nominal effective exchange rates	⊞ ⬇ API M	YPUT2
■ Contribution to the change of the final demand deflator of relative unit labour costs in national currency	⊞ ⬇ API M	YPUT3
■ Contribution to the change of the final demand deflator of real effective exchange rates	⊞ ⬇ API M	YPUT4
■ Contribution to the change of the final demand deflator of domestic	⊞ ⬇ API M	YPUT5

ECONOMIC AND FINANCIAL AFFAIRS
statistical data

European Commission

All data ▾   Quick access to tree category

☰ **ALL DATA** WHAT'S NEW   SELECTED ITEMS (0) ▤

A	**Business and consumer surveys**
B	Consumer surveys (source: DG ECFIN) (2)
	☑ Business surveys (source: DG ECFIN) (10)
A	Business surveys - NACE Rev. 1.1
	Business surveys - NACE Rev. 2
	Business surveys - back-cast

sort: category date   ▤ ▦

Consumer surveys (source: DG ECFIN)

🟩 Consumers - monthly data   ＋ ⤓ API Ⓜ   EI_BSCO_M
🟩 Consumers - quarterly data   ＋ ⤓ API Ⓜ   EI_BSCO_Q

Business surveys - NACE Rev. 2

🟩 Construction - monthly data   ＋ ⤓ API Ⓜ   EI_BSBU_M_R2
🟩 Construction - quarterly data   ＋ ⤓ API Ⓜ   EI_BSBU_Q_R2
🟩 Euro-zone Business Climate Indicator - monthly data ＋ ⤓ API Ⓜ   EI_BSCI_M_R2
🟩 Financial services - monthly data   ＋ ⤓ API Ⓜ   EI_BSFS_M
🟩 Financial services - quarterly data   ＋ ⤓ API Ⓜ   EI_BSFS_Q
🟩 Industry - monthly data   ＋ ⤓ API Ⓜ   EI_BSIN_M_R2
🟩 Industry - quarterly data   ＋ ⤓ API Ⓜ   EI_BSIN_Q_R2
🟩 Retail sale - monthly data   ＋ ⤓ API Ⓜ   EI_BSRT_M_R2
🟩 Services - monthly data   ＋ ⤓ API Ⓜ   EI_BSSE_M_R2
🟩 Sentiment indicators - monthly data   ＋ ⤓ API Ⓜ   EI_BSSI_M_R2

![European Commission logo]

TAXATION AND CUSTOMS UNION
statistical data

European Commission > Taxation and Customs Union > statistical data

All data ▾   Quick access to tree category

≡ **ALL DATA** WHAT'S NEW AT A GLANCE   SELECTED ITEMS (0)

| E | **Effective Tax Rates** |
| E | |

◉ Domestic results ①   annex_c
▾ Cross-borders results 36   annex_d
  ◉ Country results 35   annex_d.country
◉ Tax regimes for SME and partnerships ①   annex_e

sort: [category] [date]   ≣ ⊞

Domestic results

■ Domestic results   ➕ ⬇ API M   DOMESTIC-FULL

Cross-borders results

■ Cross-border results - All countries   ➕ ⬇ API M   CROSSBORDER-FULL

Country results

■ Cross-border results - Austria   ➕ ⬇ API M   CROSSBORDER-AT
■ Cross-border results - Belgium   ➕ ⬇ API M   CROSSBORDER-BE
■ Cross-border results - Bulgaria   ➕ ⬇ API M   CROSSBORDER-BG
■ Cross-border results - Canada   ➕ ⬇ API M   CROSSBORDER-CA
■ Cross-border results - Switzerland   ➕ ⬇ API M   CROSSBORDER-CH
■ Cross-border results - Cyprus   ➕ ⬇ API M   CROSSBORDER-CY
■ Cross-border results - Czech Republic ➕ ⬇ API M   CROSSBORDER-CZ
■ Cross-border results - Germany   ➕ ⬇ API M   CROSSBORDER-DE
■ Cross-border results - Denmark   ➕ ⬇ API M   CROSSBORDER-DK
■ Cross-border results - Estonia   ➕ ⬇ API M   CROSSBORDER-EE
■ Cross-border results - Greece   ➕ ⬇ API M   CROSSBORDER-EL
■ Cross-border results - Spain   ➕ ⬇ API M   CROSSBORDER-ES
■ Cross-border results - Finland   ➕ ⬇ API M   CROSSBORDER-FI
■ Cross-border results - France   ➕ ⬇ API M   CROSSBORDER-FR
■ Cross-border results - Crotia   ➕ ⬇ API M   CROSSBORDER-HR
■ Cross-border results - Hungary   ➕ ⬇ API M   CROSSBORDER-HU
■ Cross-border results - Ireland   ➕ ⬇ API M   CROSSBORDER-IE
■ Cross-border results - Italy   ➕ ⬇ API M   CROSSBORDER-IT
■ Cross-border results - Japan   ➕ ⬇ API M   CROSSBORDER-JP
■ Cross-border results - Lithuania   ➕ ⬇ API M   CROSSBORDER-LT
■ Cross-border results - Luxembourg   ➕ ⬇ API M   CROSSBORDER-LU

import	Store	release	API	Data Browser
	• PREVIEW • LIVE			
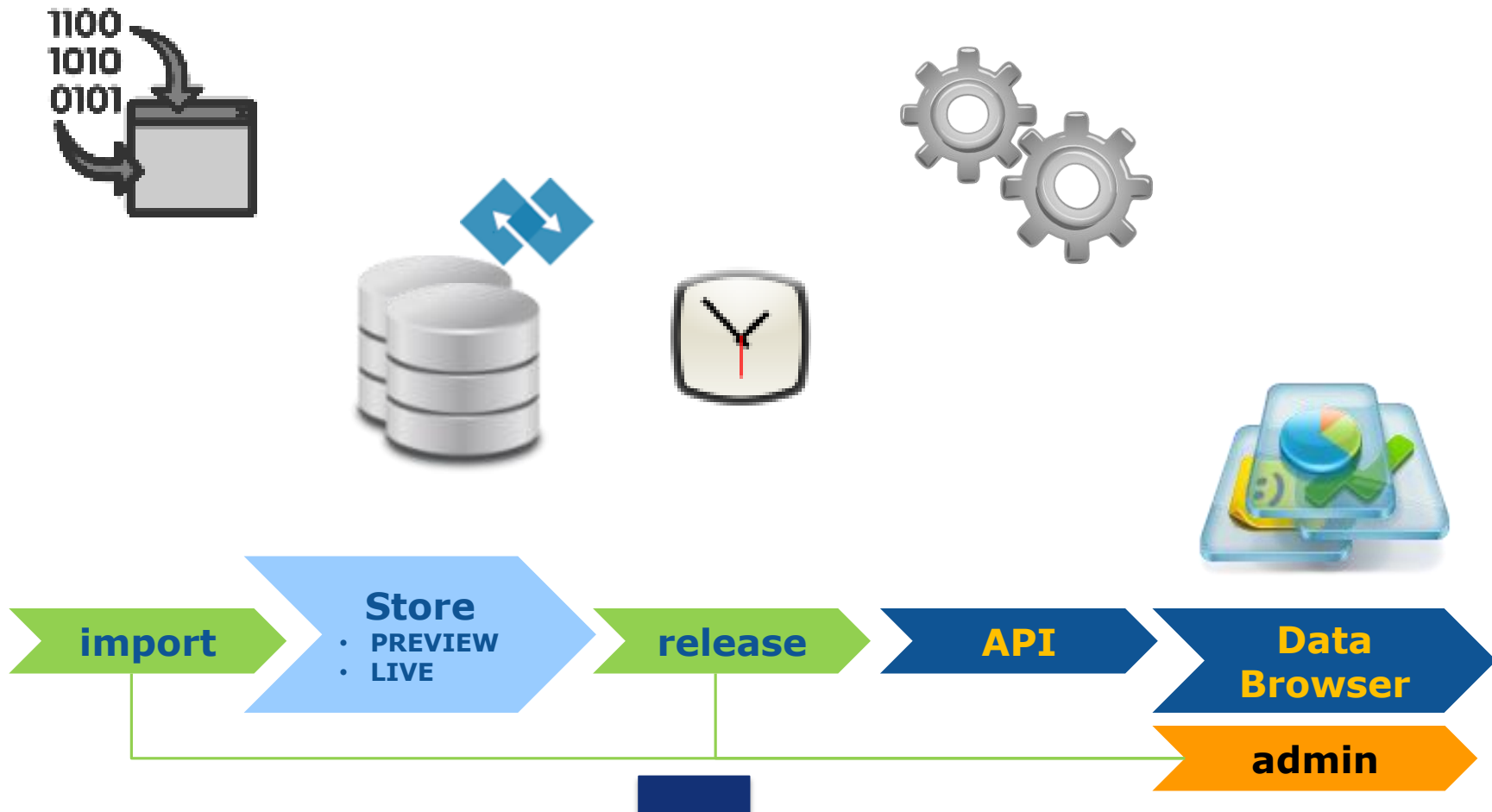
admin

Admin

Data collections, predefined extractions & presentations

Navigation

Release

All data ▾   Quick access to tree category

🏠 ALL DATA   WHAT'S NEW   SELECTED ITEMS (

Administration interface

Statistical content management

Alpha current implementation details on the statistical content

Currently, the solution is **focusing on the creation** of content against the data storage and the separation between **PREVIEW** and **LIVE** data access with a data release mechanism. It does not includes a complete validation of content after structural modification and necessary automated changes. To test different combination it is recommended to create several element with different IDs, and when necessary, start anew by deleting the Data Collection.

Actions

- Manage data collections (define new collection, update data for existing one)
- Manage predefined extractions
- Manage codelists
- Manage concept schemes

Navigation content management

Alpha current implementation details on the navigation content

The navigation content is still stored on the file system for Alpha and therefore not accessible as SDMX artefacts through the API endpoints.

Actions

- Manage themes and subcategories structure (SDMX CategoryScheme)
- Manage tree positions in table view (SDMX Categorisations)
- Manage tree positions in tree view (SDMX categorisations)

Release management (preview to live)

- **Open preview mode** *Browse next release content before executing a public release*

- **Release** *Perform a release by transitioning all content (statistical and navigation) to be publicly available*

- **Refresh navigation cache** **alpha-only** *the solution keeps in-memory copy of navigation information, in case you do not see your changes in preview/live please execute this task*

Audit

- Upload audit

Admin

Data collections, predefined extractions & presentations

Presentations

Predefined extractions

Data collection = DSD + Data

REDISSTAT DEMO
statistical data

All data ▾   Quick access to tree category

🏠 ALL DATA   WHAT'S NEW   SELECTED ITEMS (0)

Manage Data Collections

Upload a new Data Structure Definition package

[Browse...] No file selected.

This is the first step for creating a new Data Collection. If you need help in preparing the **DSD package**, please refer to the online help.

> **Warning about replacing an existing Data collection**
> In order to upload a DSD with the same ID (code) as an existing one you should first delete the existing. Be cautious when selecting the file to upload.

Afterwards your newly create data collection will be present in the listing below where you can execute additional tasks:

- Update its description
- Upload data

Data Collection listing

| « | ‹ | 1 | 2 | › | » |

Items per page: 1

type here to filter the list

Code ↓ᴬᶻ	Title	Last update information	Actions
BCS 📄	MISSING_CONTENT	DSD : 2016.10.24 17:44 Data : no data	⤓ | ✏ ❌ | ⊕ Upload sdmx (or csv) data set
BD_ESIZE_R3 📄	MISSING_CONTENT	DSD : 2016.10.25 14:11 Data : no data	⤓ | ✏ ❌ | ⊕ Upload sdmx (or csv) data set
BOP_FDI_STR 📄	bop	DSD : 2016.10.25 16:11 Data : 2016.10.25 16:11	⤓ | ✏ ❌ | ⊕ Upload sdmx (or csv) data set
DEMO_GIND 📄	MISSING_CONTENT	DSD : 2016.10.25 16:44 Data : 2016.10.25 16:44	⤓ | ✏ ❌ | ⊕ Upload sdmx (or csv) data set

https://webgate.test.ec.europa.eu/estat/redisstat-demo/databrowser/

Properties of data collection : BOP_FDI_STR - bop

Edit properties   **Structure overview**   Data series overview

Dimensions

Position list   **Code list**

Frequency **1/9**

Balance of payments indicator 1/21

missing_name for codelist CL_GEO in en **42/3694**

Time period **20/20**

Filter

Code	Label
CA1	Credits by geographical zone (credits as % of partner World credits)
CMLD	Exports (in 1 000 million ECU/EUR)
COVR	Cover rates (in %)
DA1	Debits by geographical zone (debits as % of partner World debits)
DMLD	Imports (in 1 000 million ECU/EUR)
EMP	Number of persons employed
ENT	Number of enterprises
FGDP	GDP (flows in % of GDP)
FLOWS	Direct investment flows - Million ECU/EUR
GIT	Gross investments in tangible goods - Million ECU/EUR
INCOME	Direct investment income - Million ECU/EUR
NGDP	Net balance at current prices (in % of GDP)
NMLD	Net balance (in 1 000 million ECU/EUR)
PEC	Personnel costs - Million ECU/EUR
SGDP	GDP (stocks in % of GDP)

Cancel   Save

BD_ESIZE_R3 📄   MISSING_CONTENT
DSD : 2016.10.25 14:11
Data : no data
⊕ Upload sdmx (or csv) data set

BOP_FDI_STR 📄   bop
DSD : 2016.10.25 16:11
Data : 2016.10.25 16:11
⊕ Upload sdmx (or csv) data set

DEMO_GIND 📄   MISSING_CONTENT
DSD : 2016.10.25 16:44
Data : 2016.10.25 16:44
⊕ Upload sdmx (or csv) data set

https://webgate.test.ec.europa.eu/estat/redisstat-demo/databrowser/

REDISSTAT DEMO

statistical data

All data ▾   Quick access to tree category

🏠 ALL DATA   WHAT'S NEW   SELECTED ITEMS (

Manage predefined extractions

import definition as a zip with 2 files (SDMX dataflow + SDMX query)   Browse...   No file selected.

↳ **1. Select a data collection**

| BOP_FDI_STR | bop | ▾ |

↳ **2.** Create or **view/edit one** ⇒

| BOP_FDI_STR$bip: bip | ▾ |

Data collection summary	Extraction	Presentations

Show ⦿ Codes   ⦿ Labels   ⦿ Codes and

Information   **Structure**

Data cube estimated size : 840 cells

Dimensions   *Available values*

FREQ: Frequency (1) | A: Annual |

INDIC_BP: Balance of payments indicator (1) | TIFDI: Market integration - Foreign Direct Investment intensity - Average value of inward and outward Foreign Direct Investment flows divided by GDP, multiplied by 100 |

GEO: missing_name for codelist CL_GEO in en (42) | EU28: European Union (28 countries) | EU27: European Union (27 countries) | EU15: European Union (15 countries) | EA17: Euro area (17 countries) | EA12: Euro area (12 countries) | EA11: Euro area (11 countries) | BE: Belgium |

| BG: Bulgaria | CZ: Czech Republic | DK: Denmark | DE: Germany (until 1990 former territory of the FRG) | EE: Estonia | IE: Ireland | EL: Greece | ES: Spain | FR: France | HR: Croatia | IT: Italy | CY: Cyprus | LV: Latvia | LT: Lithuania |

| LU: Luxembourg | HU: Hungary | MT: Malta | NL: Netherlands | AT: Austria | PL: Poland | PT: Portugal | RO: Romania | SI: Slovenia | SK: Slovakia | FI: Finland | SE: Sweden | UK: United Kingdom |

| BLEU: Belgo-Luxembourg Economic Union | IS: Iceland | NO: Norway | CH: Switzerland | ME: Montenegro | TR: Turkey | US: United States | JP: Japan |

TIME_PERIOD: Time period (20) | 1993 | 1994 | 1995 | 1996 | 1997 | 1998 | 1999 | 2000 | 2001 | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |

Clear all notifications   🔒 Access administration

REDISSTAT DEMO
statistical data

All data ▾   Quick access to tree category

ALL DATA   WHAT'S NEW   SELECTED ITEMS (

Manage predefined extractions

import definition as a zip with 2 files (SDMX dataflow + SDMX query)   Browse...   No file selected.

↳ **1. Select a data collection**   **BOP_FDI_STR**   bop   ▾

↳ **2.** Create or **view/edit one** ⇒   BOP_FDI_STR$bip: bip   ▾

Data collection summary	Extraction	Presentations

Show ○ Codes   ○ Labels   ● Codes and

| 1 - Presentation: | ➕ Add |

💾 Save all present

| Information | **Layout - common** | Layout - charts | Layout - maps | Pre-selection |

Delete presenta

First view   view.table

Globals

    Column   Time period   ▾
                   ⊕ Add a breakdown

        ⇅

    Row   missing_name for codelist CL_GEO in en   ▾
                   ⊕ Add a breakdown

    ☐ **Highlight mode**

import

Store
- PREVIEW
- LIVE

release

API

Data Browser

admin
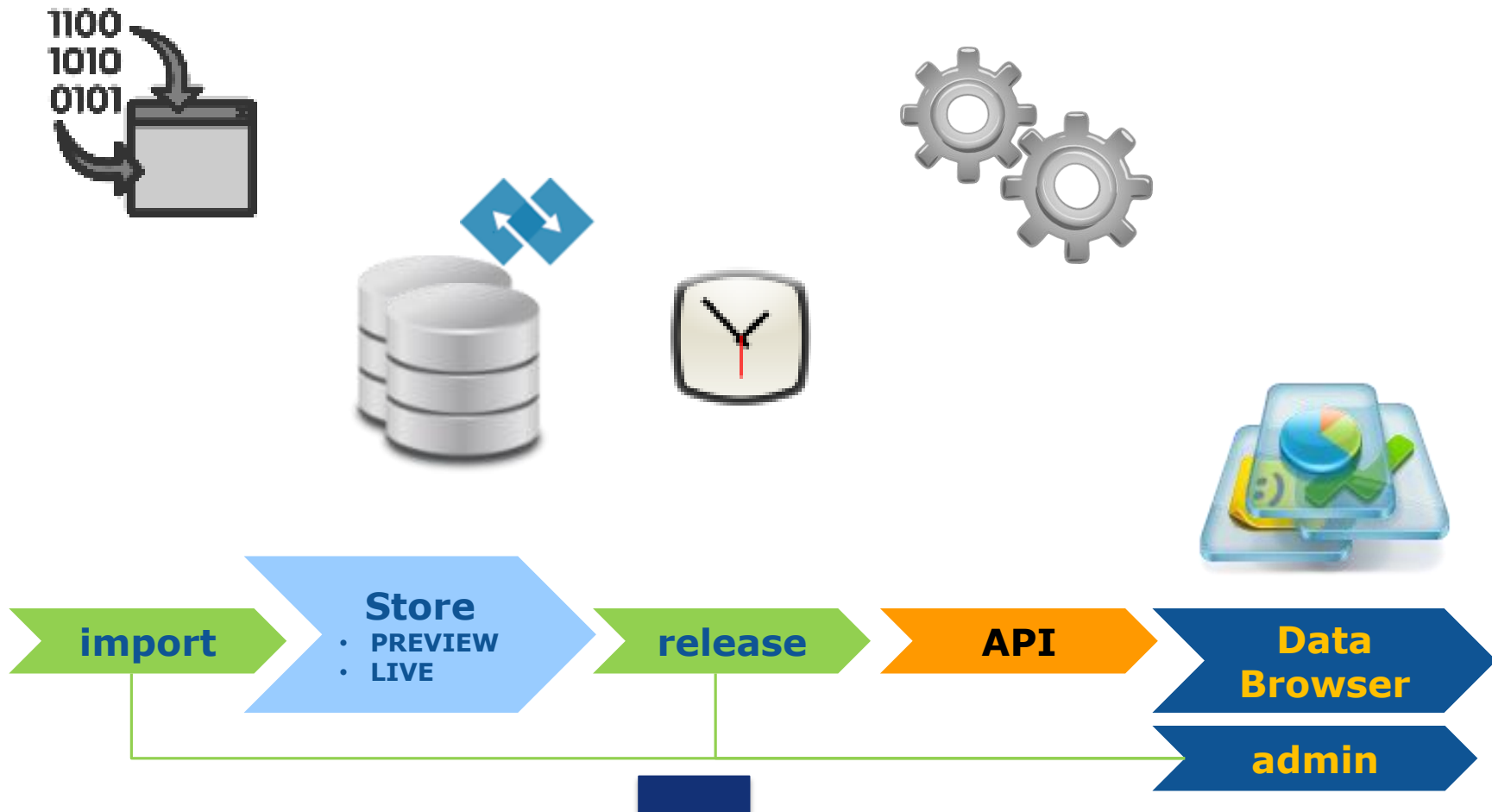
Application Programmatic Interface API (automated data access)

API - GET

Data and structural metadata

Navigation tree

… in full (bulk) or fine grained (query)

Services – CONVERT, RELEASE, CACHE

all_dataflows_sdmx21

https://webgate.acceptance.ec.europa.eu/ecfin/redisstat/databrowser-api/1.0/extraction

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/" xmlns:ext="http://estat.e
    <soapenv:Header/>
    <soa
    </so
</soape
```

C:\Users\vandmar\Desktop\demo\All_dataflows_sdmx2.1 queryAttachment- LIVE.xml

C:\Users\vandmar\Desktop...

```
<?xml version="1.0" encoding="UTF-8"?>
- <m:Structure xmlns:m="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/message">
    - <m:Header xmlns:m="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/message">
        <m:ID xmlns:m="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/message">DF1476882408</m:ID>
        <m:Test xmlns:m="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/message">false</m:Test>
        <m:Prepared xmlns:m="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/message">2016-10-19T15:06:48+02:00</m:Prepared>
        <m:Sender xmlns:m="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/message" id="ESTAT"/>
    </m:Header>
    - <m:Structures xmlns:m="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/message">
        - <s:Dataflows xmlns:s="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/structure">
            + <str:Dataflow id="AM_TESTSUPERNEW" version="1.0" agencyID="ECFIN" urn="urn:sdmx:org.sdmx.infomodel.datastructure.Dataflow=ECFIN:
                xmlns:str="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/structure">
            + <str:Dataflow id="AM_TESTSUPERNEW$PDE" version="1.0" agencyID="ECFIN" urn="urn:sdmx:org.sdmx.infomodel.datastructure.Dataflow=EC
                xmlns:str="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/structure">
            + <str:Dataflow id="AM_TESTSUPERNEW$PDE2" version="1.0" agencyID="ECFIN" urn="urn:sdmx:org.sdmx.infomodel.datastructure.Dataflow=
                xmlns:str="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/structure">
            + <str:Dataflow id="KA_AMECO_BIS" version="1.0" agencyID="ECFIN" urn="urn:sdmx:org.sdmx.infomodel.datastructure.Dataflow=ECFIN:KA_
                xmlns:str="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/structure">
            - <str:Dataflow id="KA_AMECO_BIS$AMECO_Default" version="1.0" agencyID="ECFIN" urn="urn:sdmx:org.sdmx.infomodel.datastructure.Dataf
                xmlns:str="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/structure">
                - <com:Annotations xmlns:com="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/common">
                    - <com:Annotation>
                        <com:AnnotationTitle>EXTRACTION</com:AnnotationTitle>
                        <com:AnnotationType>DISSEMINATION_OBJECT_TYPE</com:AnnotationType>
                    </com:Annotation>
                    - <com:Annotation>
                        <com:AnnotationTitle>KA_AMECO_BIS</com:AnnotationTitle>
                        <com:AnnotationType>DISSEMINATION_PARENT_ID</com:AnnotationType>
                    </com:Annotation>
                    - <com:Annotation>
                        <com:AnnotationTitle>{"cube":[{"code":"GEO","values":[]},{"code":"CONCEPT","values":[]},{"code":"TRANSFORMATION","val
                            {"code":"REFERENCE","values":[]},{"code":"DL","values":[]}],"timeFilter":{"code":"TIME_PERIOD","values":[],"mode":"
                        <com:AnnotationType>INTERNAL_QUERY</com:AnnotationType>
                    </com:Annotation>
                    - <com:Annotation>
                        <com:AnnotationTitle>Explanatory texts (metadata)</com:AnnotationTitle>
                        <com:AnnotationType>ESMS_HTML_CHILD</com:AnnotationType>
                        <com:AnnotationURL/>
                    </com:Annotation>
                    - <com:Annotation>
                        <com:AnnotationTitle>false</com:AnnotationTitle>
                        <com:AnnotationType>ESMS_HTML_OVERRIDE</com:AnnotationType>
                    </com:Annotation>
                </com:Annotations>
                <com:Name xml:lang="en" xmlns:com="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/common">AMECO_Default</com:Nam
                <com:Description xml:lang="en" xmlns:com="http://www.sdmx.org/resources/sdmxml/schemas/v2_1/common"><p>AMECO_Default</
```

Deliverable	Purpose

Admin interface	• Load and manage
	   i. Data Structure Definition (DSD) defining a data collection
	   ii. Statistical data that is part of a data collection to be disseminated
	Navigation management
	Release management, i.e. make data publicly available (manual actions)

Data storage	• Dissemination Preview (i.e. containing data for final validation before public data release) • Dissemination Live (i.e. containing publicly available data)
API i.e. web services	• Machine-to-machine automated data consumption in multiple formats
Web based data browser (EN), i.e. interface for the access to the data and metadata,	• Navigation in data collections, • Consultation of data and metadata, • Filtering on data dimensions, the visualisation of data (charts, maps), • Capacity to compare indicators and geo areas, • Capacity to download data in full or to query the API for filtered dimensions (data query)
Documentation	• Architecture documentation • Functional specification • Online help content (in EN)

Thank you

Contact

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