CELLAR, OPEN DATA, LINKED OPEN DATA

EU Open Data Portal

Peter Schmitz, Nobert Hohn Publications Office of the EU

Workshop "Reuse of EU legal data", Brussels, 21 March 2016

EU Commission - Open Data strategy

COMMISSION DECISION of 12 December 2011:

- All documents/data shall be available for reuse without charge
  - In machine-readable format where possible and appropriate
  - Through a data portal as a single point of access to its structured data so as to facilitate linking and reuse…

➢ Public documents produced by the Commission or by public and private entities on its behalf

➢ Published by the Commission or by the **Publications Office** on its behalf through publications, websites or dissemination tools…

http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2011:330:0039:0042:EN:PDF

Open Data strategy - implementation

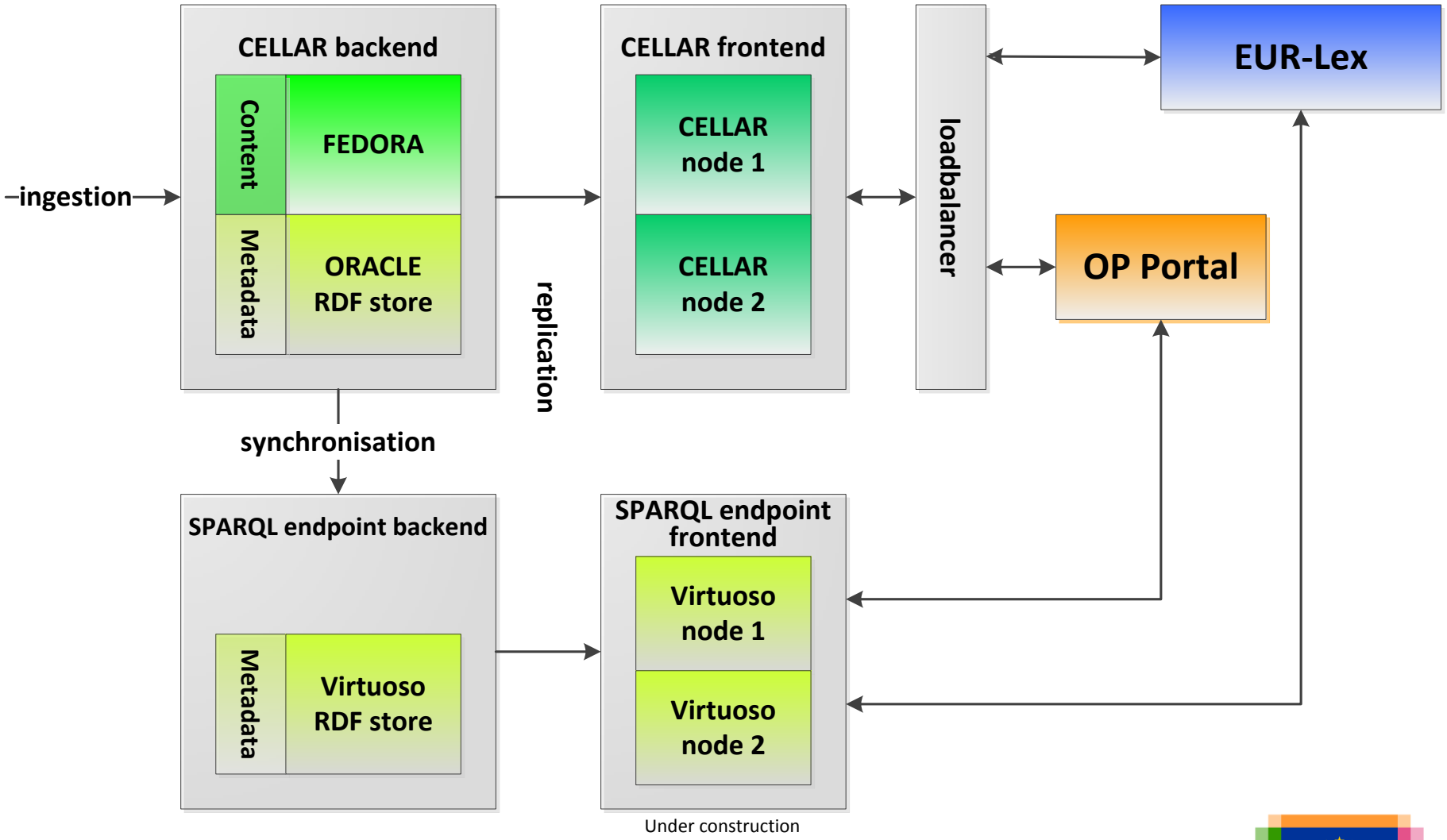
Role of the Publications Office

- Content and metadata that are managed by the Publications Office on behalf of the EU Institutions and bodies are made available as Open Data respectively Linked Open Data
  - *CELLAR, OPEN DATA, LINKED OPEN DATA*
- Management of the EU Open Data Portal and contribution to the development of the European Data Portal
  - *EU Open Data Portal*
- Facilitate the adoption of the EU Commission's Open Data strategy by all EU Institutions and bodies
- Facilitate and promote the adoption of relevant standards

CELLAR
OPEN DATA
LINKED OPEN DATA

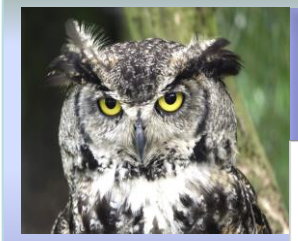
Peter Schmitz
Publications Office of the EU

CELLAR - infrastructure

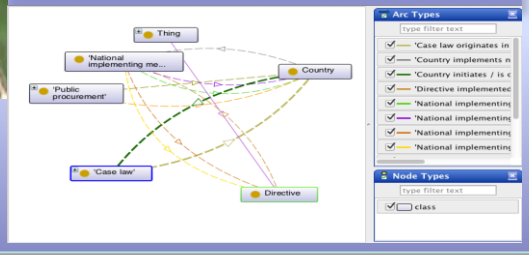


Under construction

CELLAR – what is in, how it is controlled?

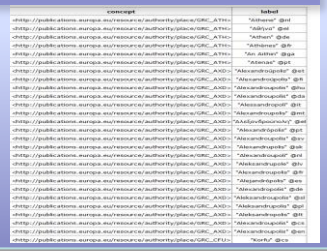


Ontologies / Common Data Model

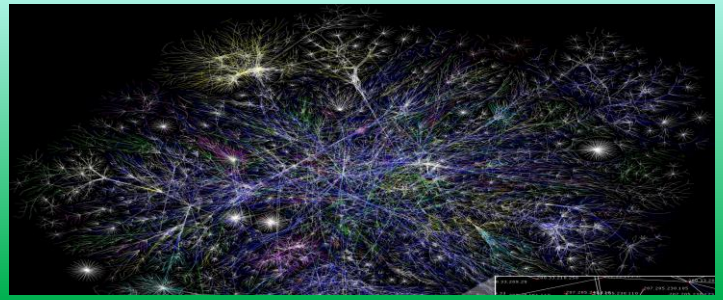


Taxonomies, controlled vocabularies

EuroVoc



Control Data



Linked Open Data

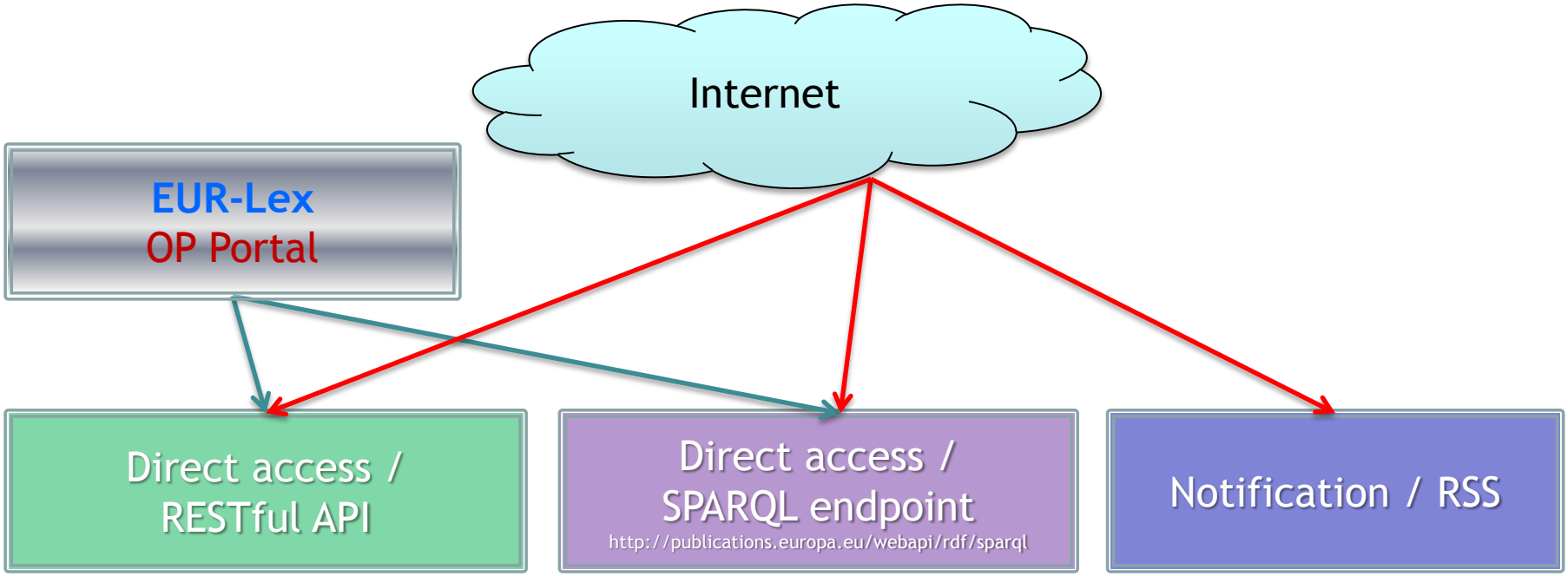
RDF

Open Data

XML
PDF
HTML

Instance Data

CELLAR - How can you retrieve data?



http://publications.europa.eu/resource/...

CELLAR - some figures

Requests

5 million requests per day on average

peaks of >20 million requests per day

Resources

> 1 million different resources in > 9.9 million linguistic versions and > 28 million items

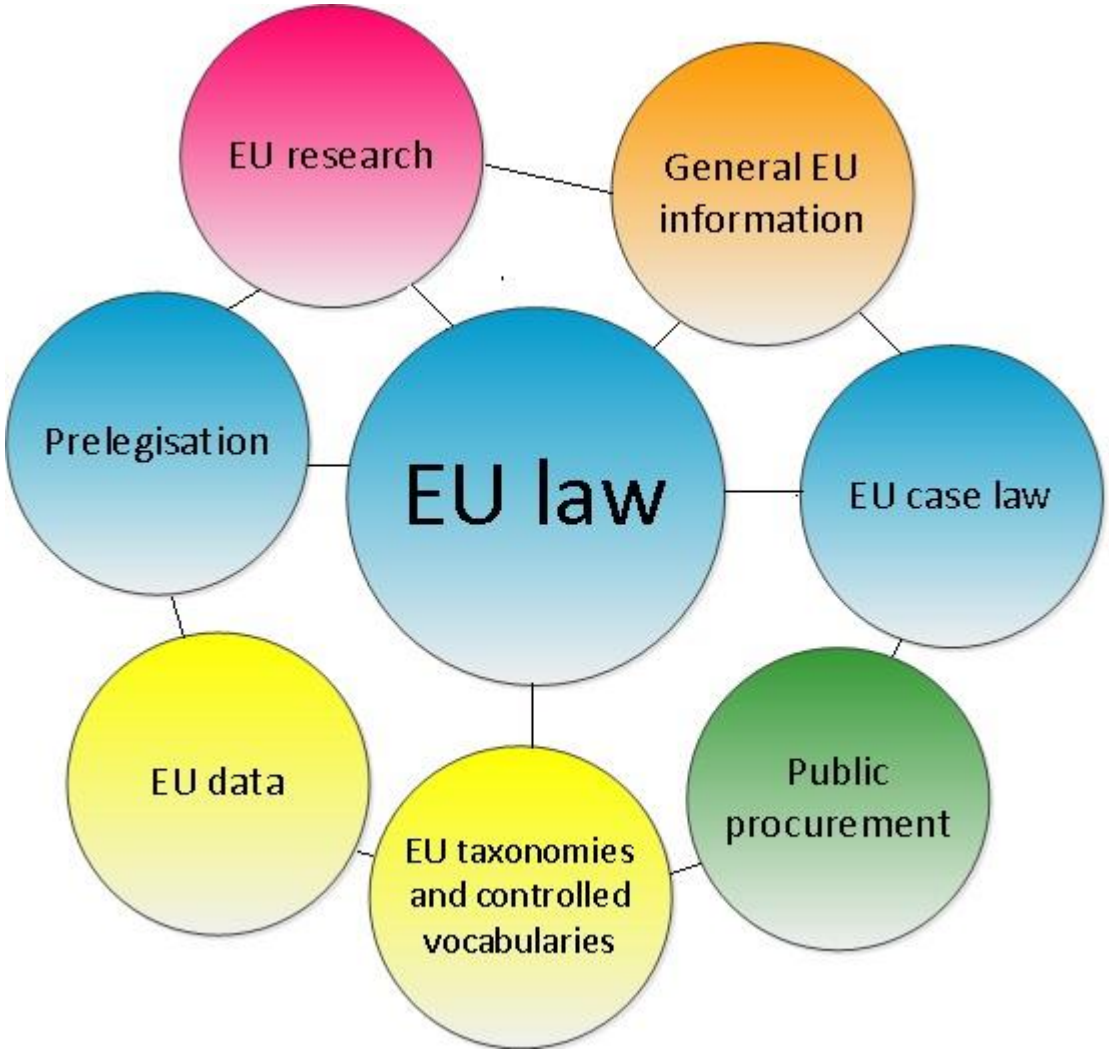
> 220 million persistent identifiers

> 114 million files

actual annual growth rate of about 10%

> 1,473 billion RDF triples

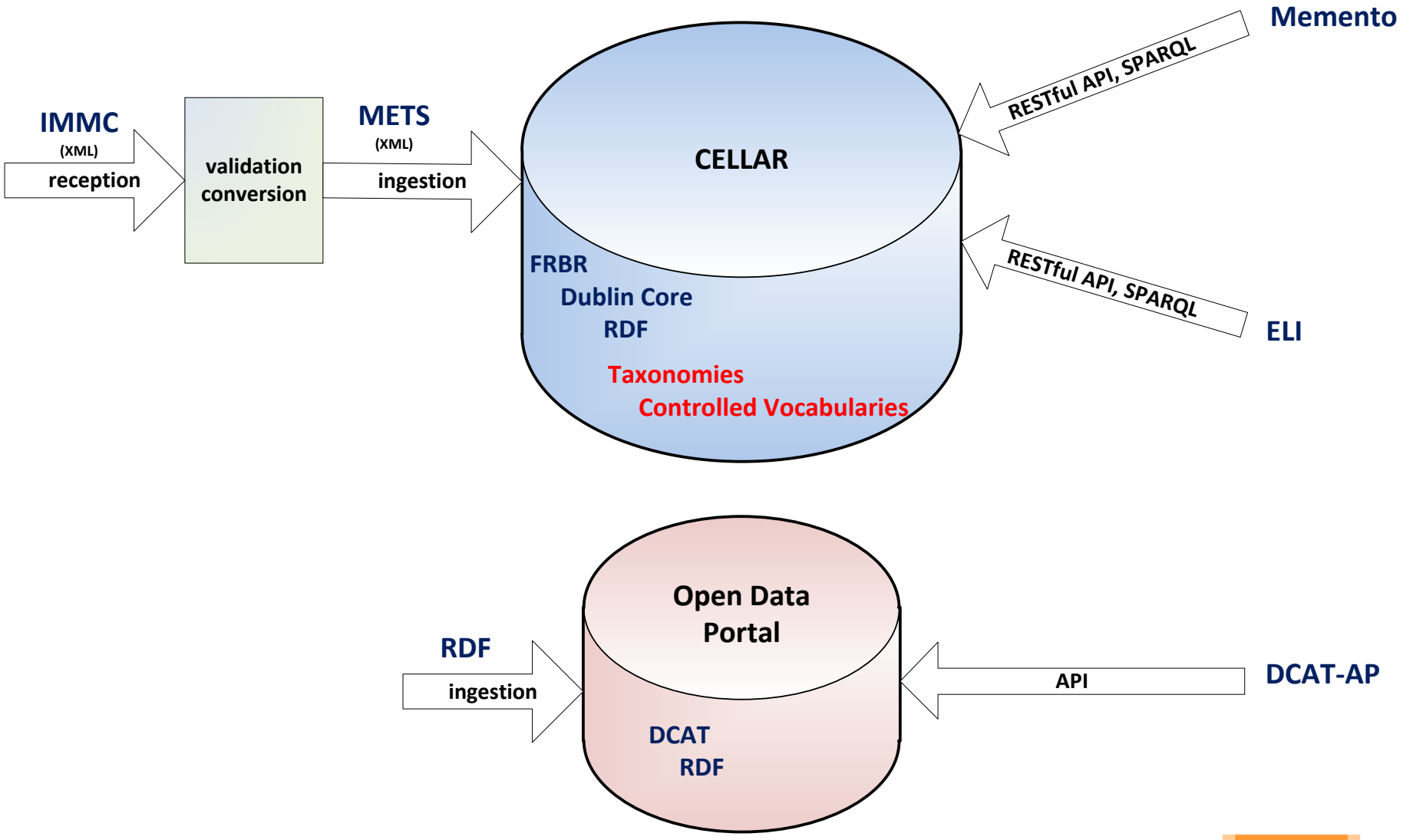
Publications Office – Linked Open Data cloud



Interoperability

Adoption of relevant standards	Proposal of standards
METS (Metadata encoding and transmission standard) -> ingestion protocol for CELLAR and long-term preservation	**IMMC** (XML based protocol for the exchange of content and metadata) -> interoperability between the actors involved in the legislative process on EU and Member State level
Dublin Core -> core metadata definition	
FRBR (Functional Requirements for Bibliographic Records) -> data model/ontology	**ELI** (European Legislative Identifier) -> harmonised identification of legislation, interoperability, access, reuse, linking
RDF -> access/reuse, Linked Open Data (LOD)	
DCAT, DCAT-AP (Data Catalog Vocabulary, Application profile) -> reuse	**Taxonomies, controlled vocabularies** (EU institutions and services, EU document types…) -> metadata harmonisation, interoperability, multilingual labels (official languages of the EU)
Memento (HTTP-based framework for Datetime negotiations) -> access/reuse	

Interoperability



The EU Open Data Portal

Norbert Hohn
Publications Office of the EU

The EU Open Data Portal

- The Commission practises what it preaches on open data and Publications Office is a key player
- Single point of access to open data of EU institutions
- The data revolution is ongoing within EU institutions, and they are willing to make a strong contribution to open data
- Transparency and user requests are key driver for new portal services
- EU Open Data Portal feeds the European Data Portal on behalf of EU bodies

Why an EU Open Data Portal?

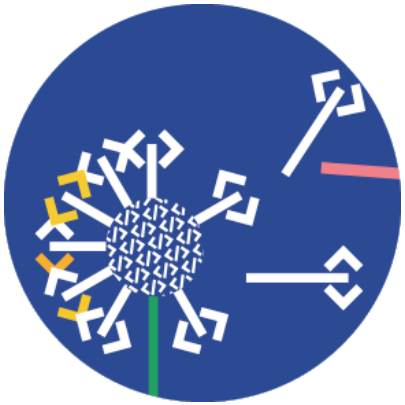
Centralised engagement with data consumer community

Aligned terms of use (implementing EU reuse policy)

Single point of access to EU Open Data

Bring together fragmented resources

Harmonised metadata, Multilinguism



What do we mean by **data** and what can be found on ODP

Statistics and time series

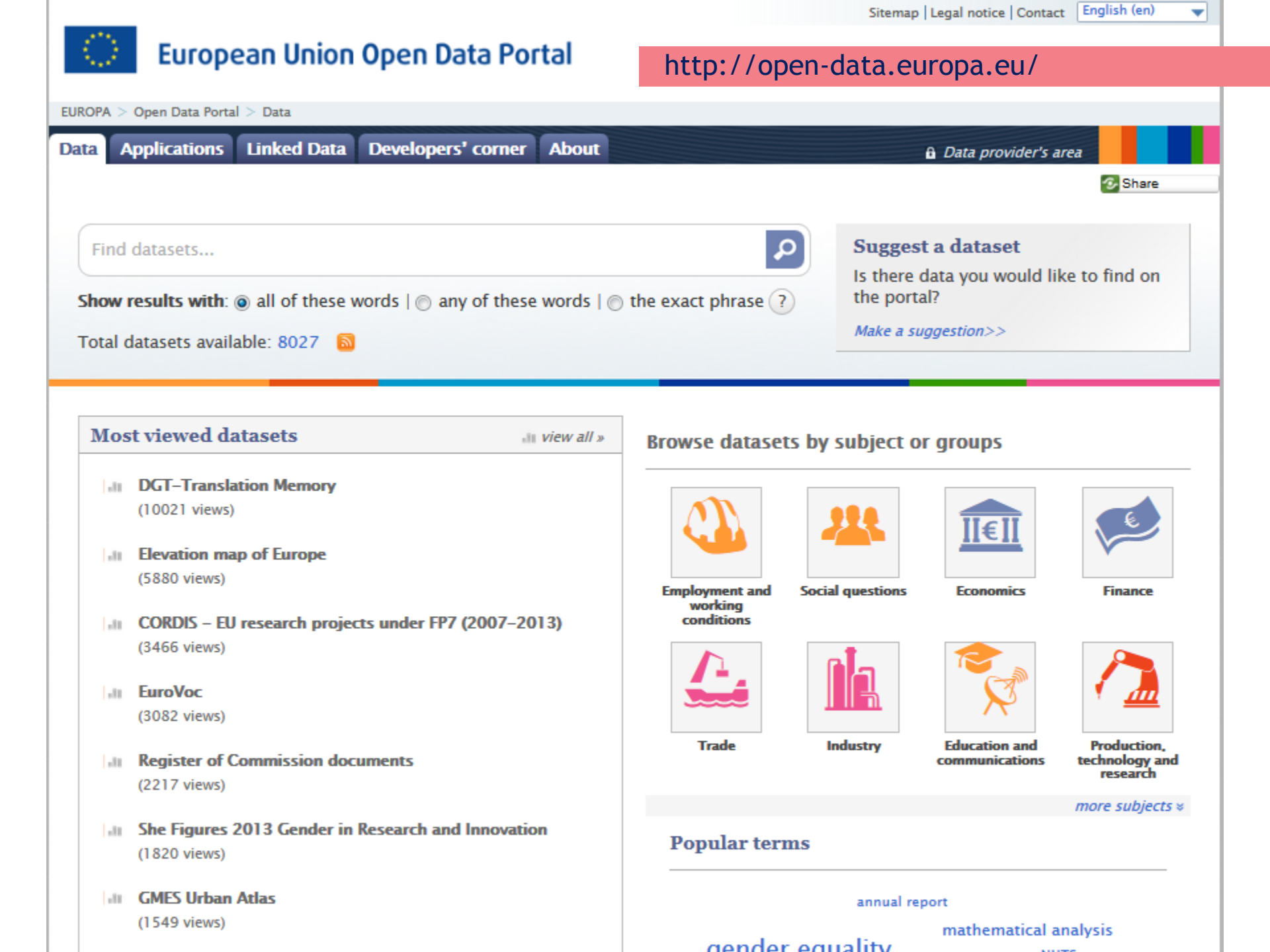
Geographic, geospatial, meteorological data

Reference Data (thesauri, vocabularies, ontologies…)

Sets of bibliographic records of documents (publications, legal documents, reports, recommendations, studies…)

Data about projects, programmes, actions, measures, grants …

Data is: all objective, factual, non-personal, non-aggregated information that we collect or generate during our activities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English (en)
European Union Open Data Portal
http://open-data.europa.eu/
EUROPA > Open Data Portal > Data
Data
Applications
Linked Data
Developers' corner
About
Data provider's area
Share
Find datasets...
Show results with: all of these words | any of these words | the exact phrase
Total datasets available: 8027
Suggest a dataset
Is there data you would like to find on the portal?
Make a suggestion>>
Most viewed datasets
view all »
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(10021 views)
Elevation map of Europe
(5880 views)
CORDIS – EU research projects under FP7 (2007–2013)
(3466 views)
EuroVoc
(3082 views)
Register of Commission documents
(2217 views)
She Figures 2013 Gender in Research and Innovation
(1820 views)
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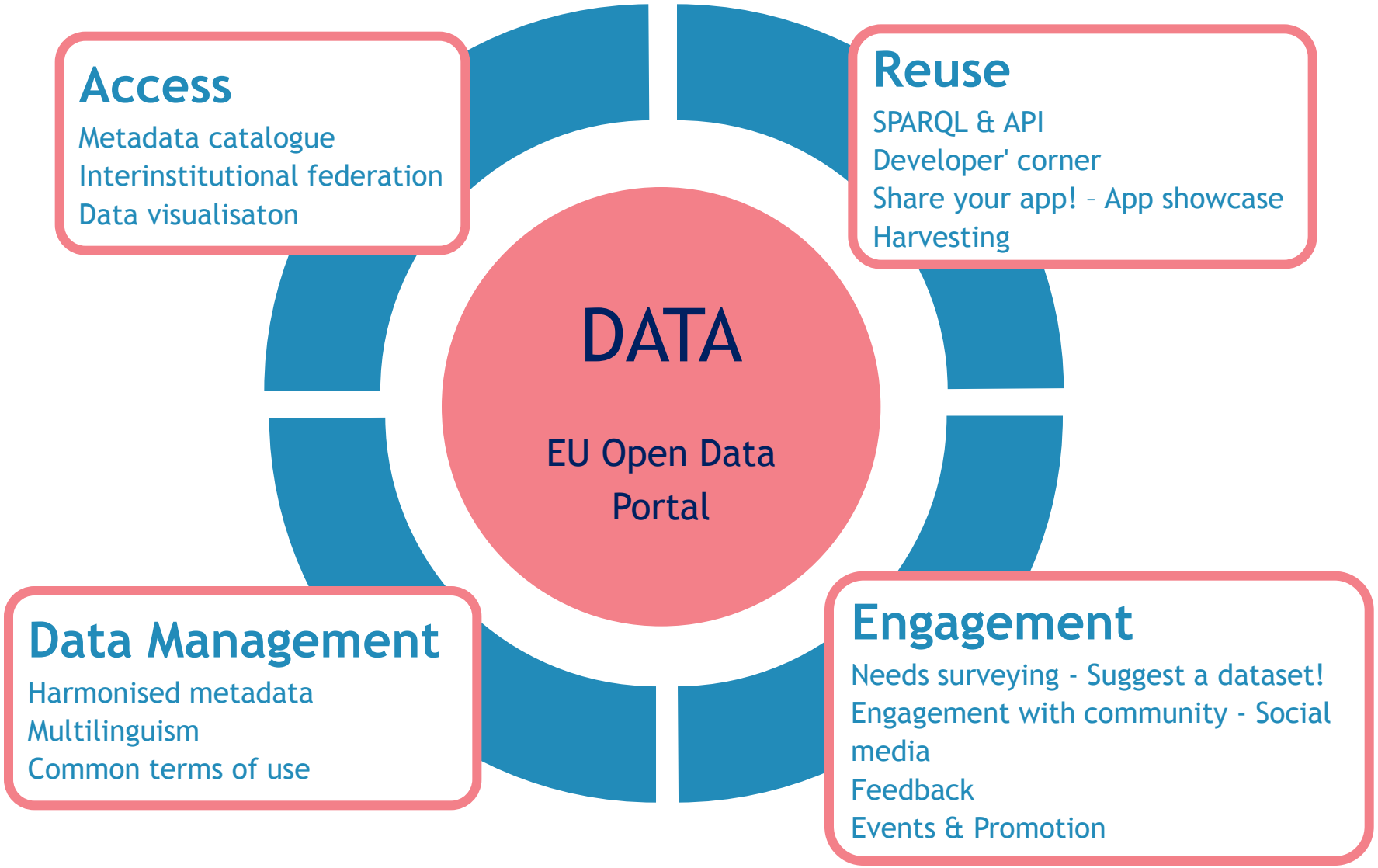
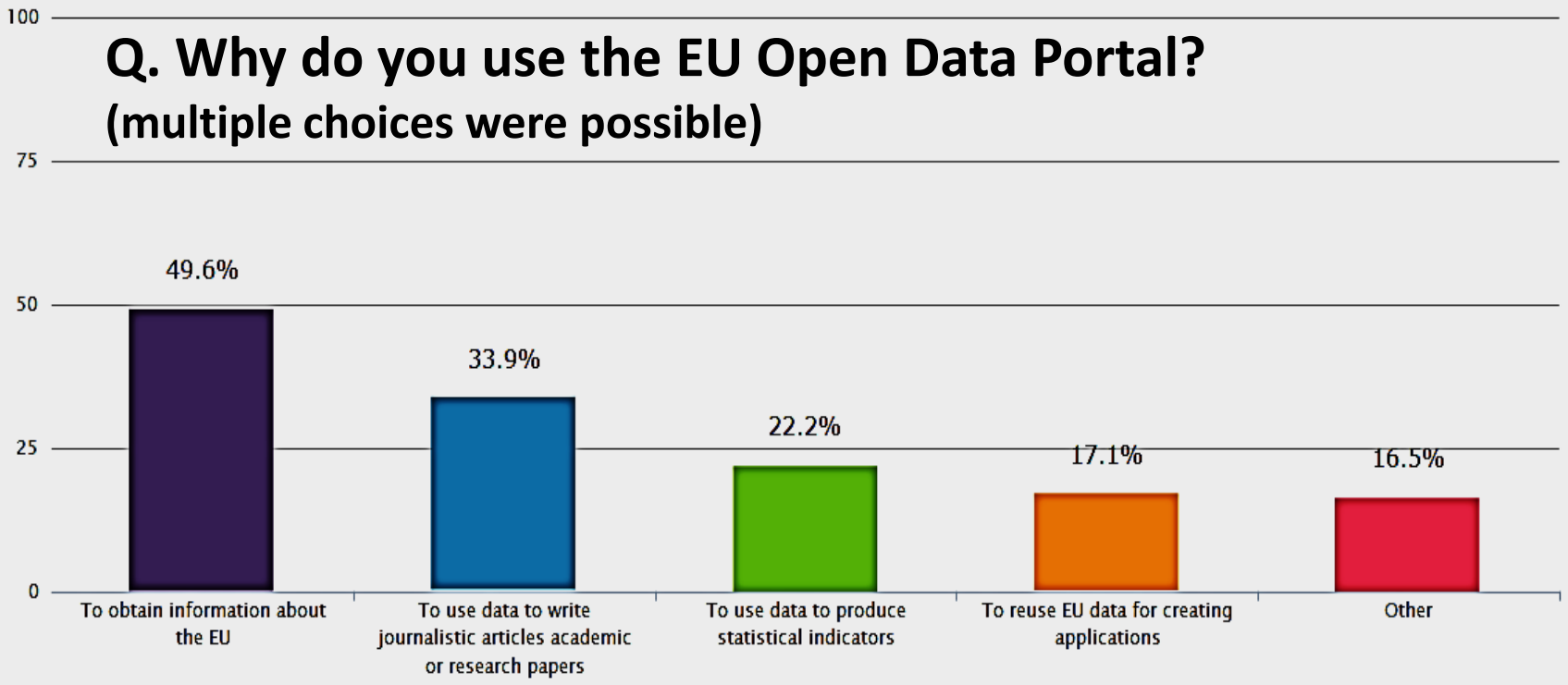
Popular terms
annual report
mathematical analysis
gender equality

The EU Open Data Portal in a nutshell

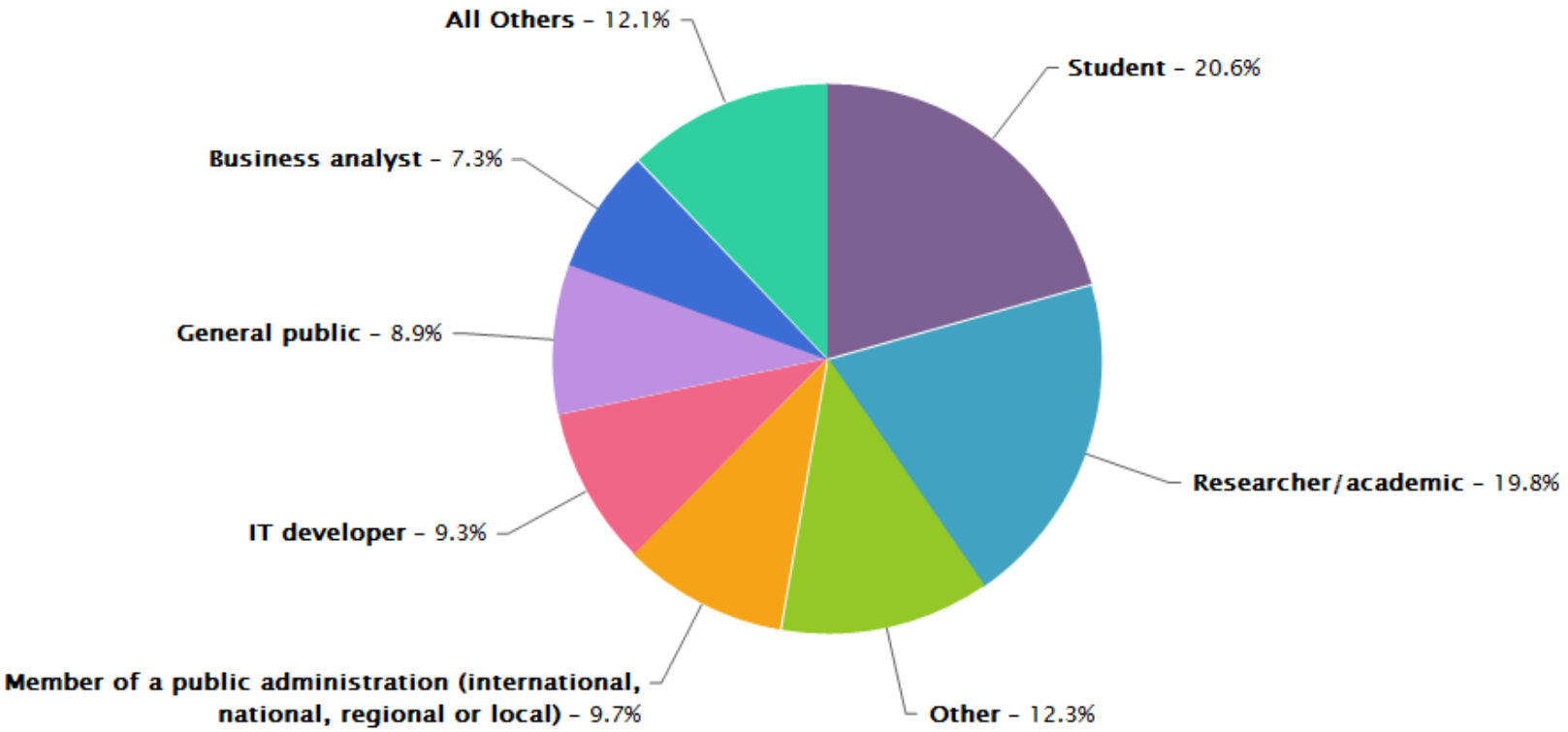


Information searched on ODP



Survey results: people come to the portal mostly to obtain information or carry out research

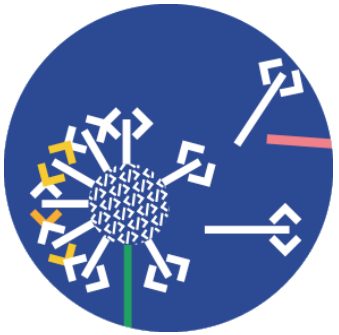
EU ODP users/ target audience



Survey results: Students and researchers/academics were biggest single groups to respond = 40%

Conclusion

- The Commission practises what it preaches on open data
- The data revolution is ongoing within EU institutions, and they are willing to make a strong contribution to open data
- Let us know about your data and reuse needs
- Share your experience with reuse of EU open data



Thank you for your attention

For questions please send an e-mail to

EU Open Data Portal team
op-odp-contact@publications.europa.eu

https://open-data.europa.eu