

10TH EXPERT GROUP MEETING ON

# Statistical Data and Metadata eXchange

JANUARY 25-28, 2021

## **Metadata Exchange in the European Statistical System: Status and Future**

January 27, 2021

Luca Gramaglia

Team Leader – Data and metadata exchange  
standards

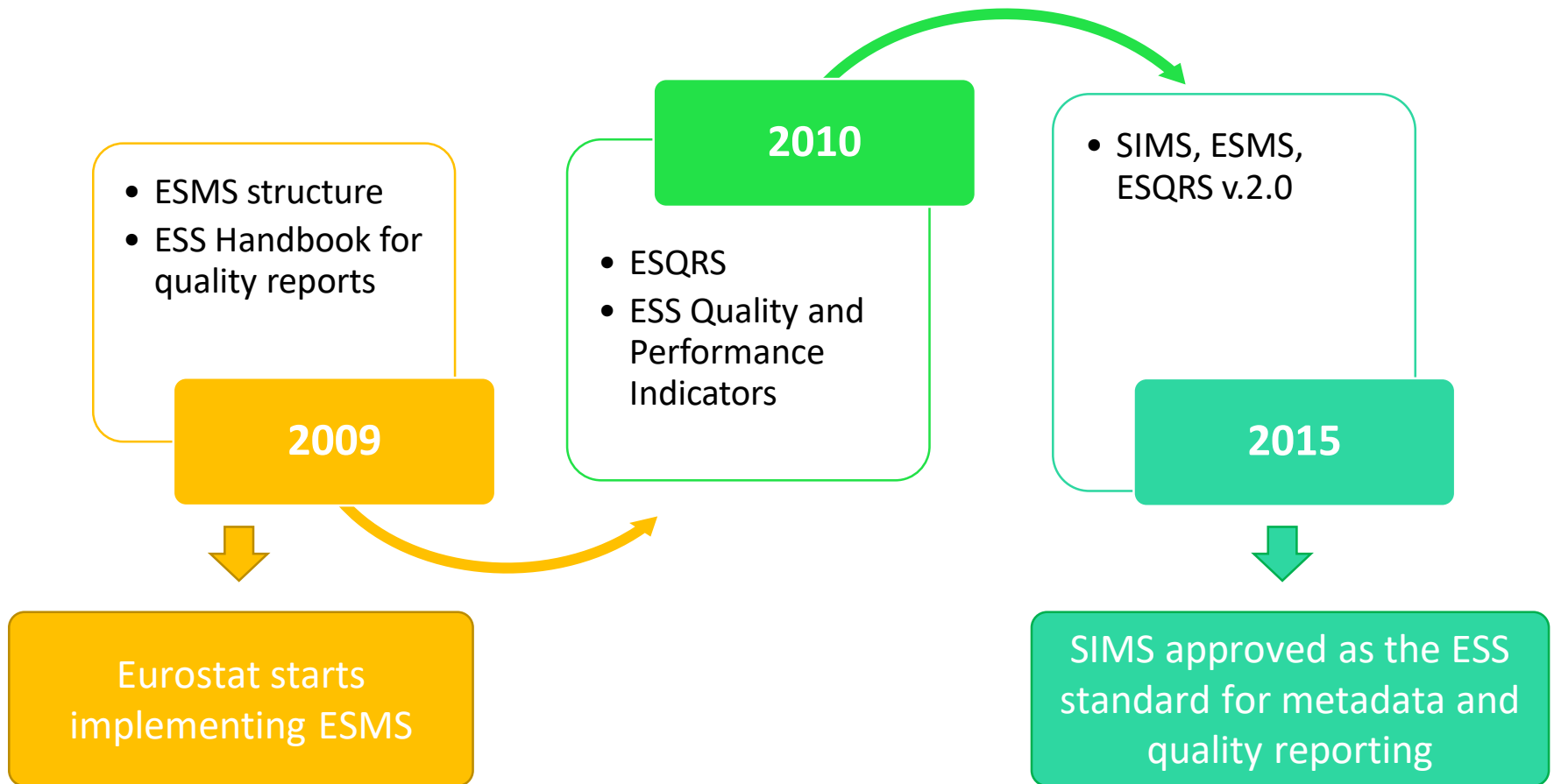
Eurostat – European Commission

# Metadata and Quality Reporting in the European Statistical System

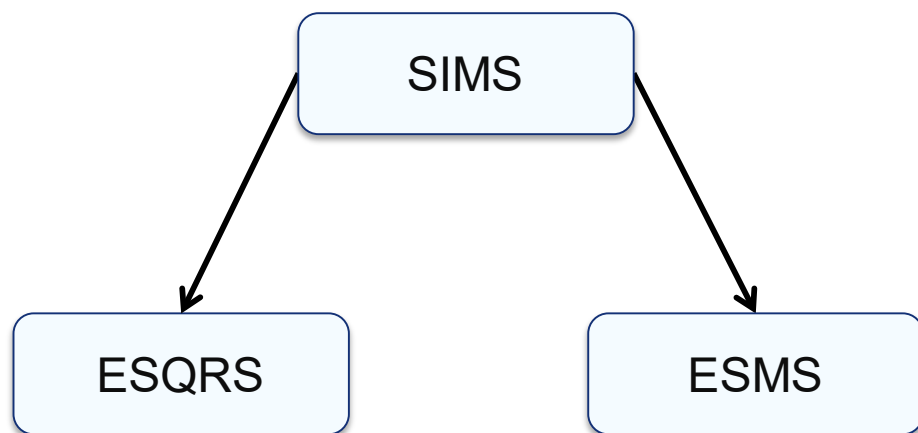
User-oriented and producer-oriented reports in the European Statistical System:

- User-oriented: allows users to correctly understand and interpret the data released  
Basis: European Statistical Code of Practice, Principle 15: "European Statistics are available and accessible with supporting metadata and guidance".
- Producer-oriented: monitor the quality of the statistics produced  
Basis: Regulation 223/2009, Article 12: "Member States shall provide the Commission (Eurostat) with reports on the quality of the data transmitted"

# Standards for Metadata and Quality reporting in the ESS



# Standards for Metadata and Quality reporting in the ESS



SIMS: set of concepts relevant for metadata/ quality reporting

ESMS: Subset for user-oriented report

ESQRS: Subset for producer-oriented reports



Objective: Once for all purposes reporting using SIMS



Data



eurostat 

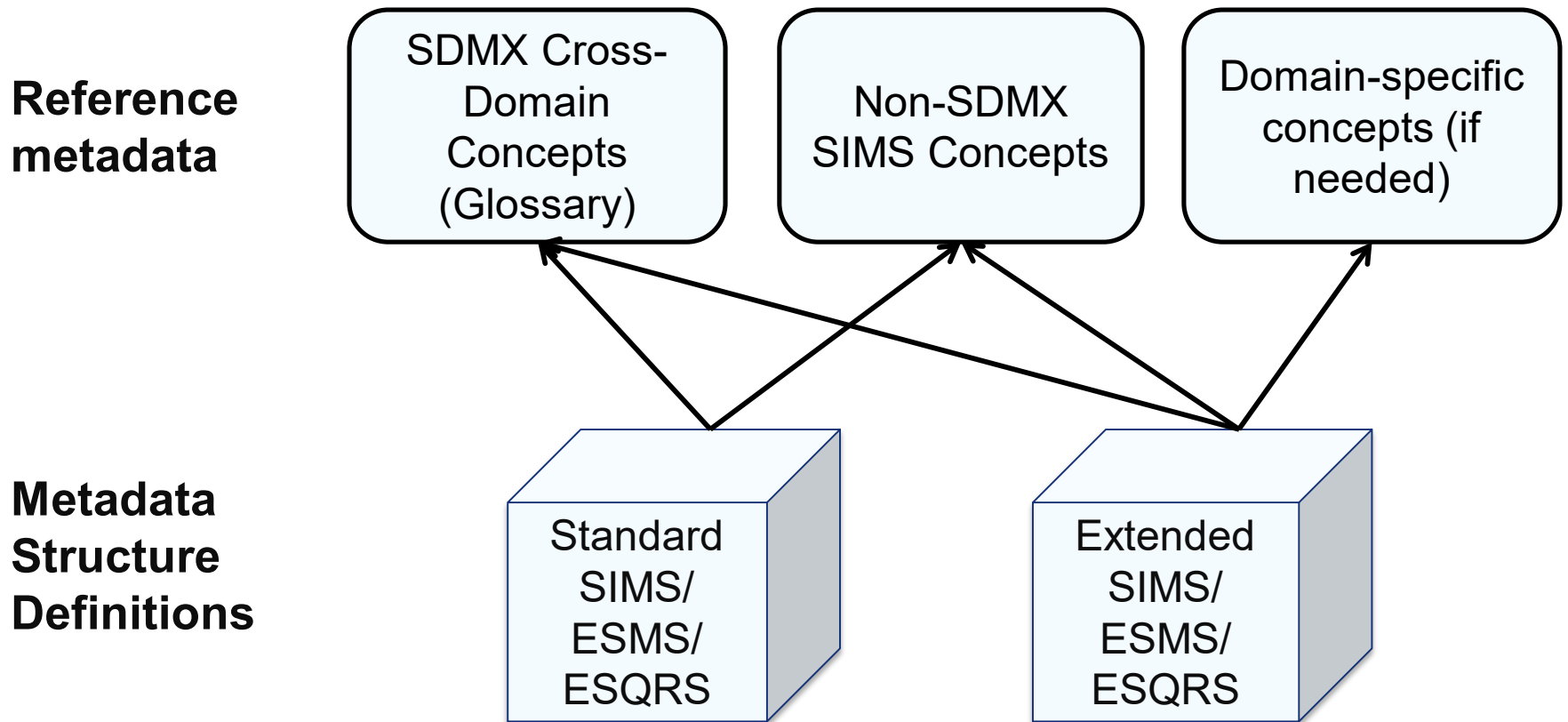


Reference metadata

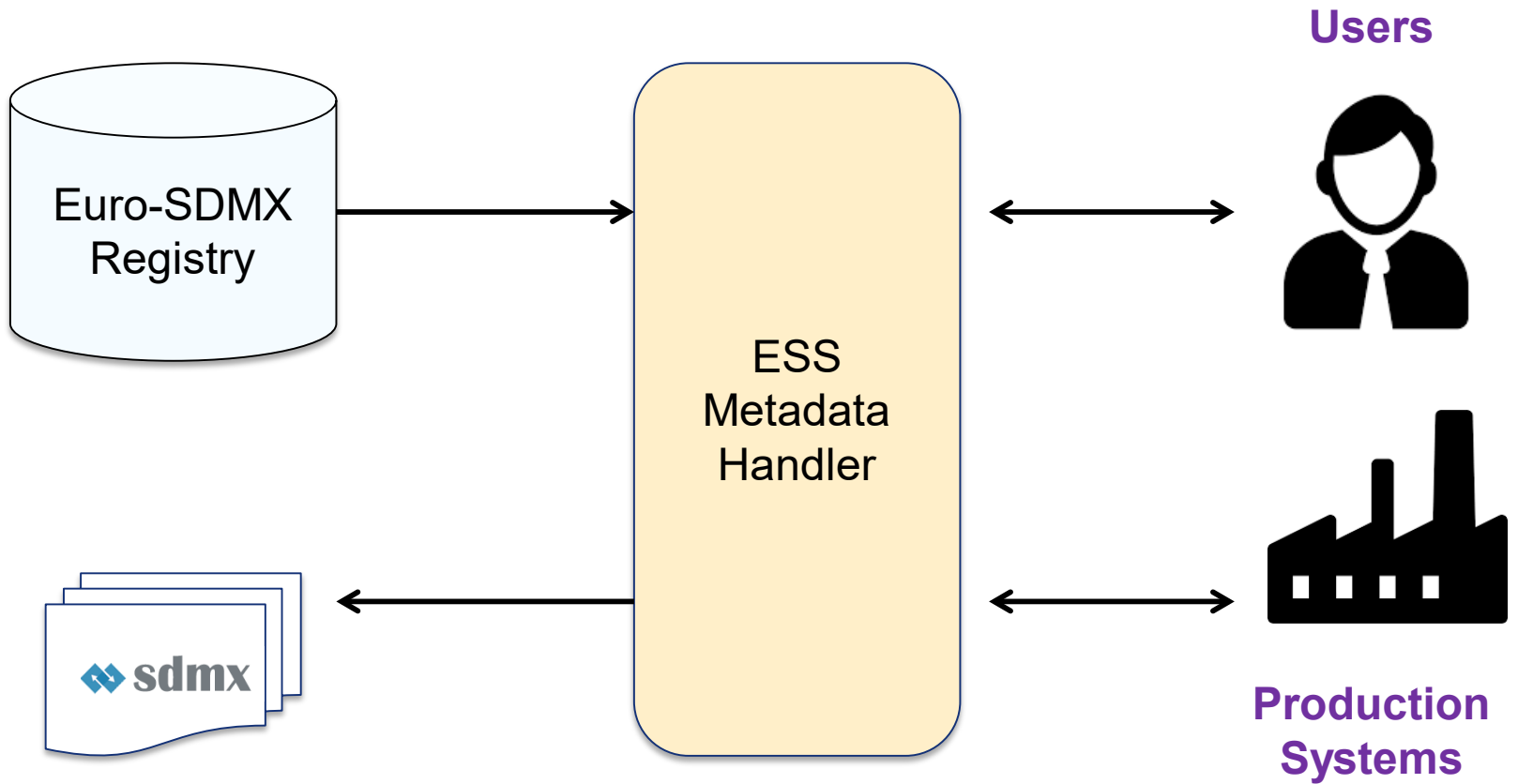
~100% of disseminated Eurostat datasets accompanied by harmonised metadata at European level

~85% of datasets collected from Member States accompanied by harmonised national metadata

# SDMX framework for quality and metadata reporting

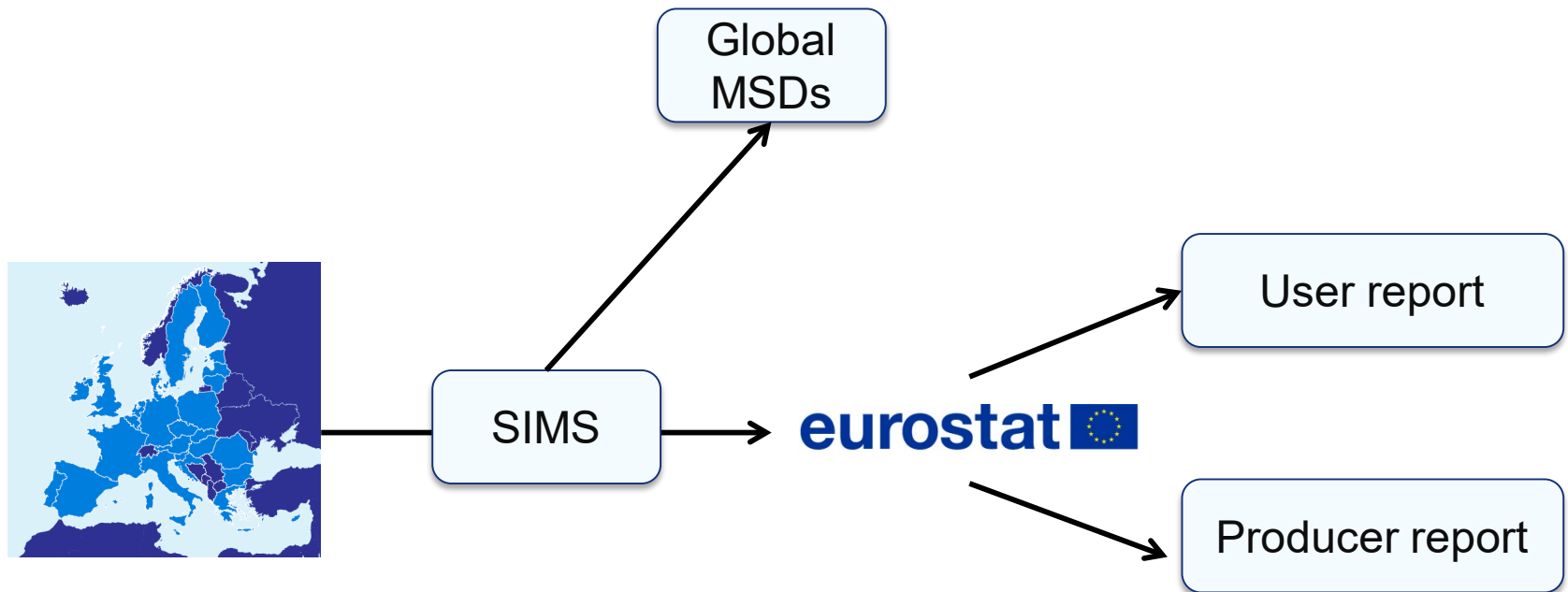


# SDMX framework for quality and metadata reporting



# "Once for all purposes" reference metadata

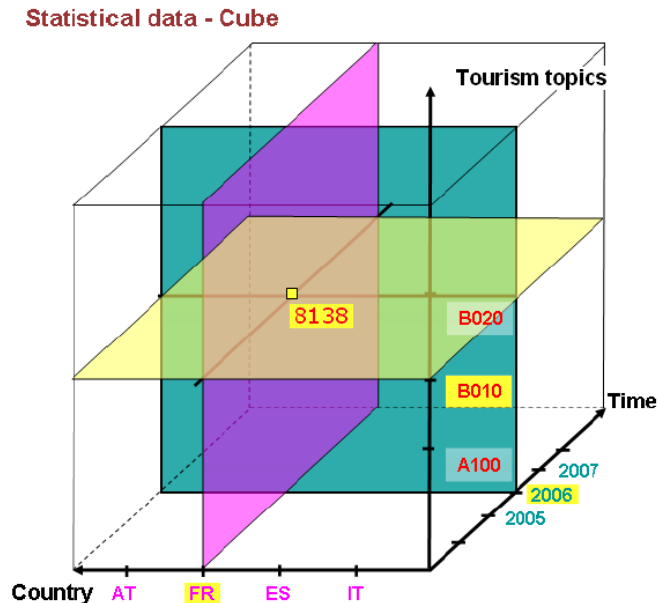
## The dream





# Future work: Exchange of footnotes

- “Footnotes” – textual information that refers to specific subsets of a data cube. Usually needs to travel along with the data and can be attached to different subsets depending on the situation



- For example, “footnotes” could be attached to a whole country or to a whole time period to indicate specific methodological notes or deviations from standard methodology. Such notes could be useful in the context of data validation.
- SDMX 3.0 will offer more features to help solve this problem (e.g. attachment of attributes to partial keys)

## Future work: Integration of tabular data

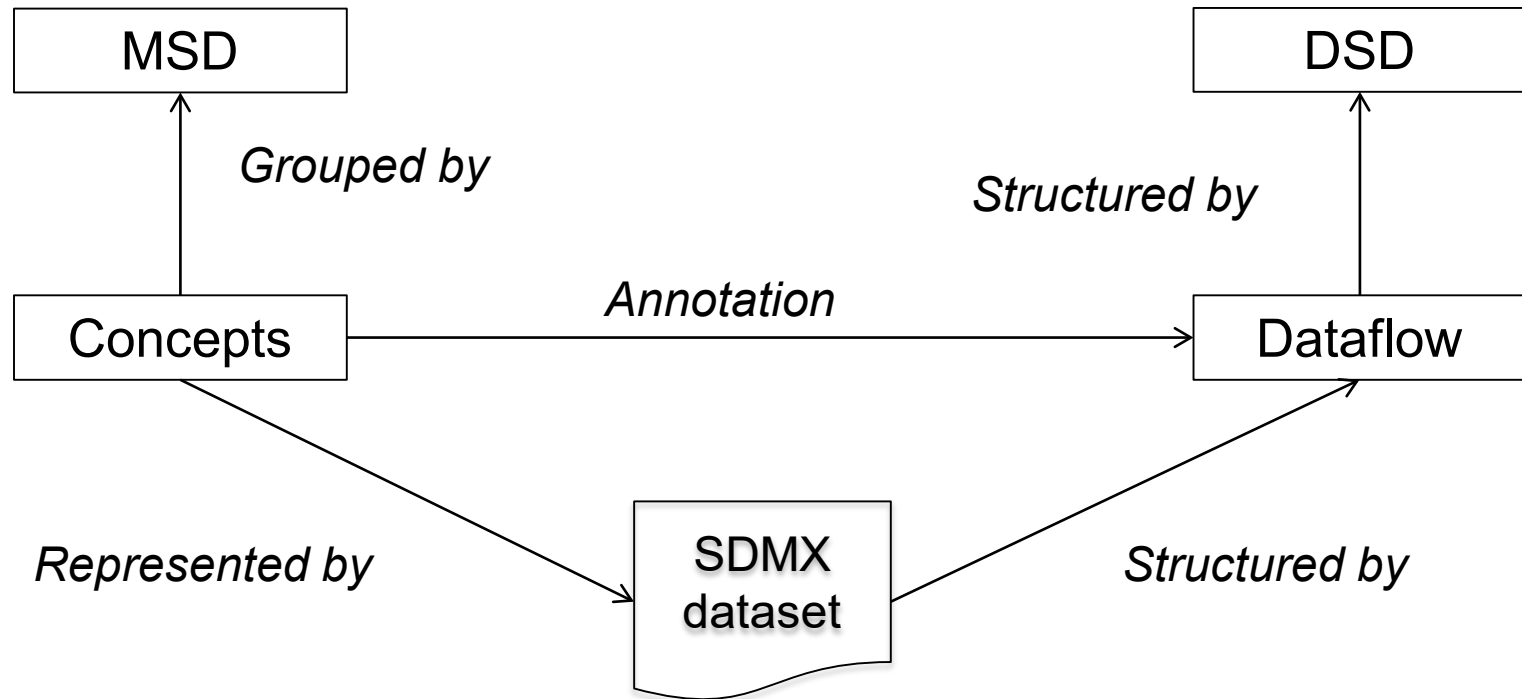
- Eurostat's experience shows that Eurostat domain managers often require detailed information in a tabular format (e.g. coefficient of variation by region / variable)

NUTS-2			
Regional Code	Region	Number of employed	Number of part-time employed
CZ01	Praha	1.21	5.88
CZ02	Stredni Cechy	1.00	6.39
CZ03	Jihozapad	0.97	5.97
CZ04	Severozapad	1.27	7.70
CZ05	Severovychod	0.98	5.25
CZ06	Jihovychod	0.97	4.77
CZ07	Stredni Morava	1.20	6.50
CZ08	Moravskoslezsko	1.20	6.58

➤ T  
tr

nakes

# Future work: An SDMX solution to the challenge



## **Discussion [Q&A]**

**For follow-up questions:  
[luca.gramaglia@ec.europa.eu](mailto:luca.gramaglia@ec.europa.eu)**