



# EUROPEAN CONFERENCE ON QUALITY IN OFFICIAL STATISTICS 2024 ESTORIL - PORTUGAL



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# Statistical Quality and New Data Sources – Towards a New Quality Framework for OECD Statistical Activities

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The conference is partly  
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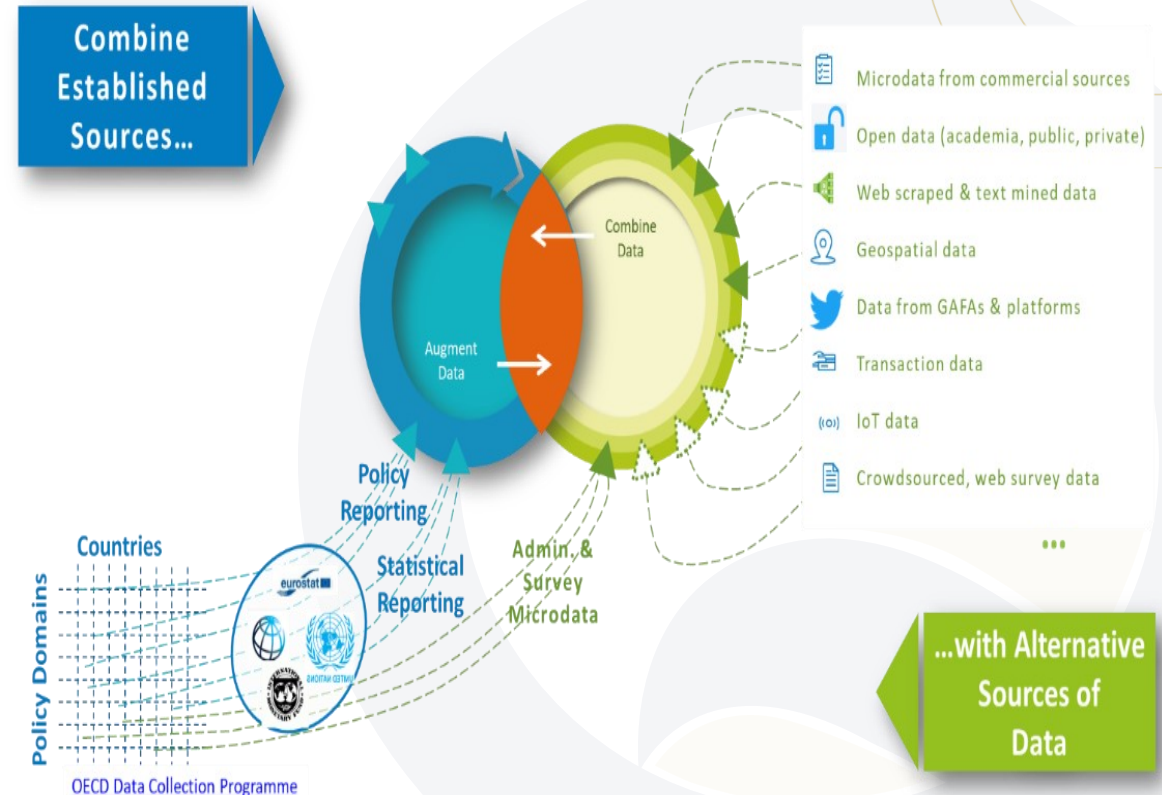




# Obectives

- Provide **trusted** data and statistics to support evidence-based policy recommendations in a quickly evolving data and statistical environment
- **Quality assurance** to preserve trust and ‘fitness for use’ of OECD data and statistics.
- Safeguard a **key Organisation’s asset**.
- Assuring quality also **reduce risks** (including reputational risks, reduced visibility, etc.) for the Organisation
- Context: **OECD statistics and data governance**

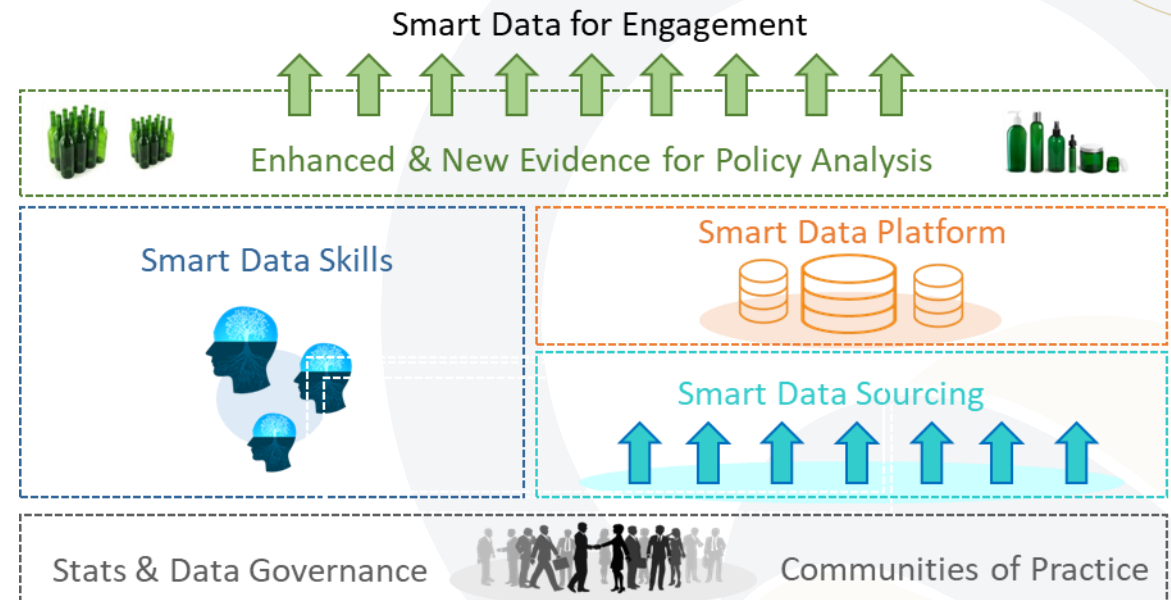
## Data sourcing at the OECD – A high level view





# OECD Smart Data Strategy

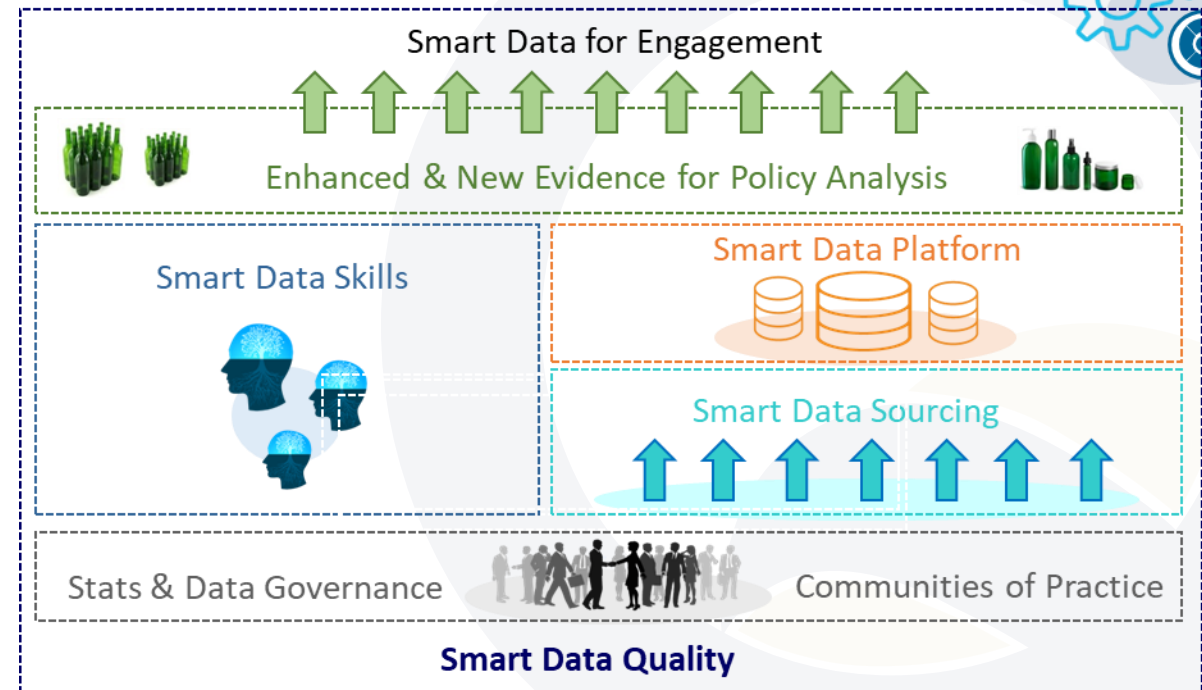
- Statistics and data refer to the **quantitative and qualitative evidence** designed, collected, processed and disseminated for analysis and policy advice by the OECD.
- Developing **sound policies** requires **solid evidence**.
- Solid evidence requires tapping into more data sources, modernising existing data processes, leveraging data science techniques...





# Towards an OECD Smart Data Quality Framework

- ...while ensuring that the core value of providing trusted, quality evidence continues.
- Relied on [Quality Framework for OECD Statistical Activities \(2011\)](#) but the context is evolving
- and requires an adjustment of the Data Quality Framework and a process of continuous adaptation (dynamic approach)
- Data quality as a communication object
- Quality culture
- → **OECD Smart Data Quality Framework.**





# Evolving Context

## Qualitative Data

- **Ad hoc collections of qualitative data** on policy-relevant issues are carried more frequently.

## Alternative Data Sources

- The emergence of **alternative and varied data sources for evidence** and the implementation of **multisource statistics** are increasingly used by OECD statisticians and analysts.

## Source-Specific Good Practices

- The heterogeneity of data sources requires development of **source-specific indications** of good practice.

## Measurable Quality Metrics

- Quality metrics measured constantly and consistently.

## Entire Data Lifecycle

- Quality objectives have to apply to **all phases of statistics and data production.**

## Security, legality, ethics

- New issues have moved much further center stage than in the past.



# OECD Smart Data Quality Framework

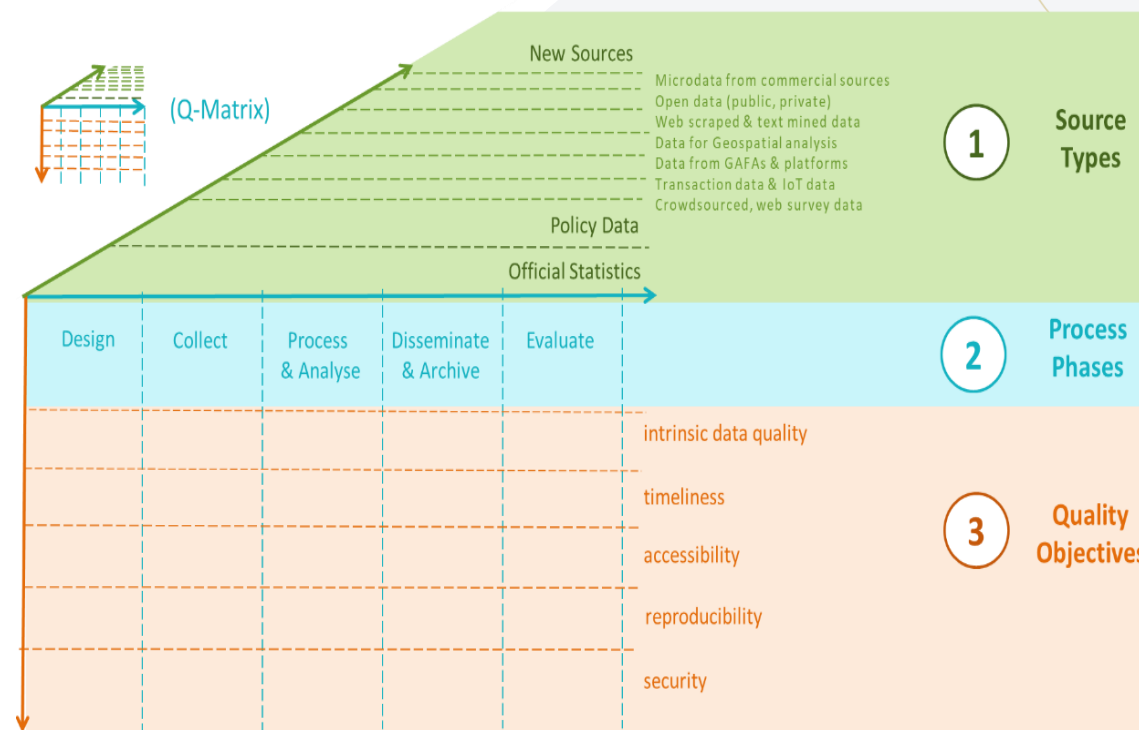
More emphasis on enabling the actual implementation of quality measures to meet criteria/objectives

- Intrinsic data quality (completeness, accuracy, coherence, reliability, interpretability, etc.)
- Transparency and reproducibility
- Data integrity (security and confidentiality)

Develop **metrics** by **quality objective** in applicable **process phases** for a given **source type**.

Develop **quality reporting**

**Quality reviews** based on the Q-matrix





# Quality assurance is an ongoing process

## Improve countries' data experience

**Statistics & Data bodies**  
CSSP and all statistical WPs

**Country experts reporting data**  
Feedback on quality of output



**Data Output Managers**  
Self-assess quality of output

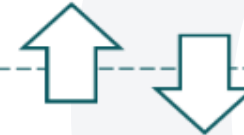
**Data Producers**  
Quality embedded in tools  
Automated validations...

## Data quality enforced 'by design'

## More agile, bottom-up stats & data governance

**Smart Data Q-Framework**  
Set and monitored by SDB-M

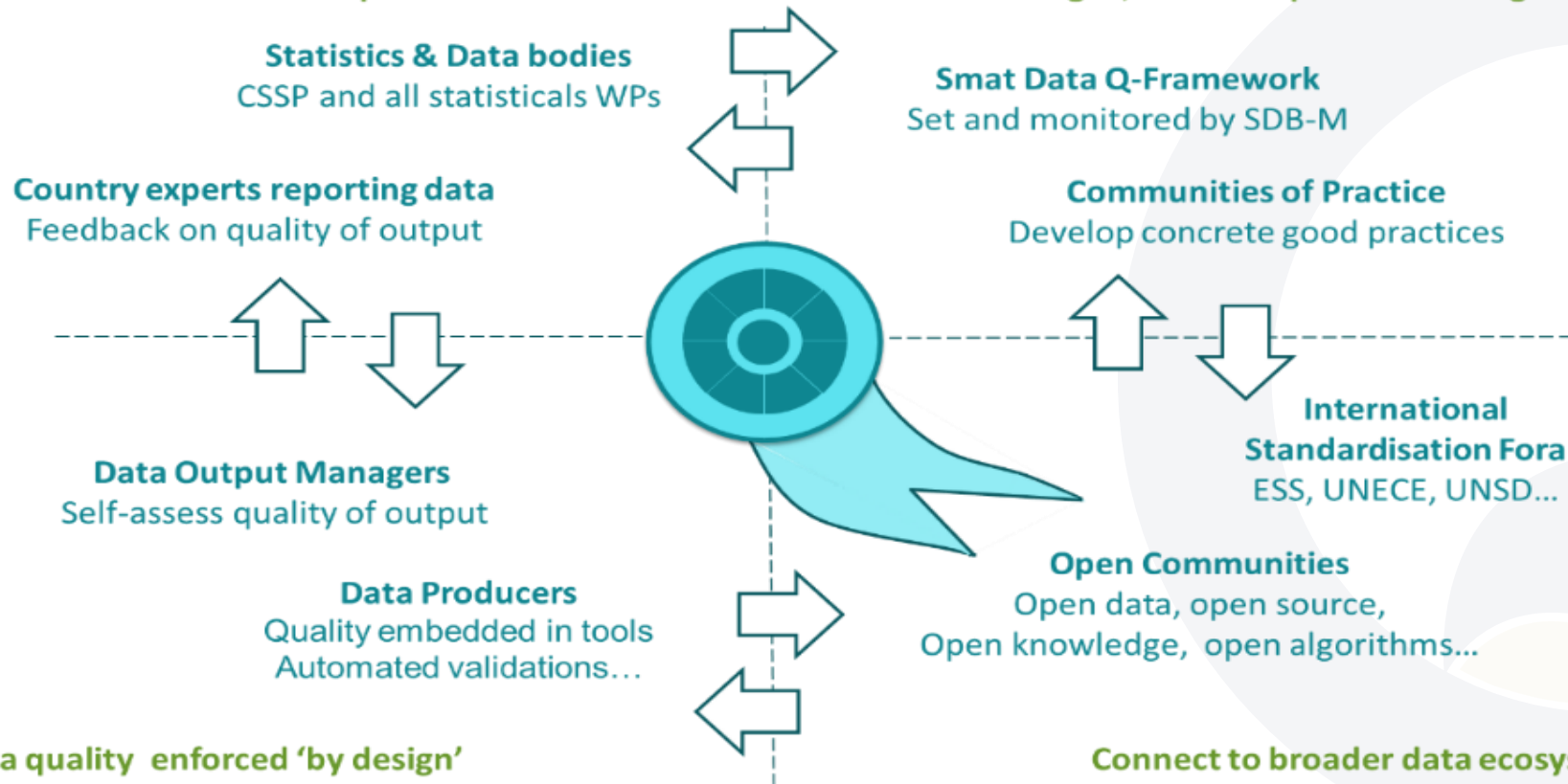
**Communities of Practice**  
Develop concrete good practices



**International  
Standardisation Fora**  
ESS, UNECE, UNSD...

**Open Communities**  
Open data, open source,  
Open knowledge, open algorithms...

## Connect to broader data ecosystems

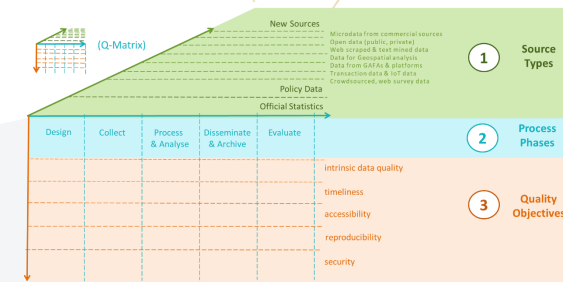






# OECD Smart Data Quality Framework: Key Characteristics

- Responsive
  - quality framework that adapts to a rapidly evolving data landscape and horizontal policy initiatives
- Inclusive
  - engaging all stakeholders and across disciplines, i.e., varying depth of quality assessments optimising value for various uses and user needs
- Automated
  - quality reporting based on measurable and programmable quality metrics that are continuously enhanced with evolving and new practices





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# Thank You!

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