



ELF EUROPEAN
LOCATION
FRAMEWORK

How to Report on Data Quality in a Multinational Environment?

Presentation to: SDM2015

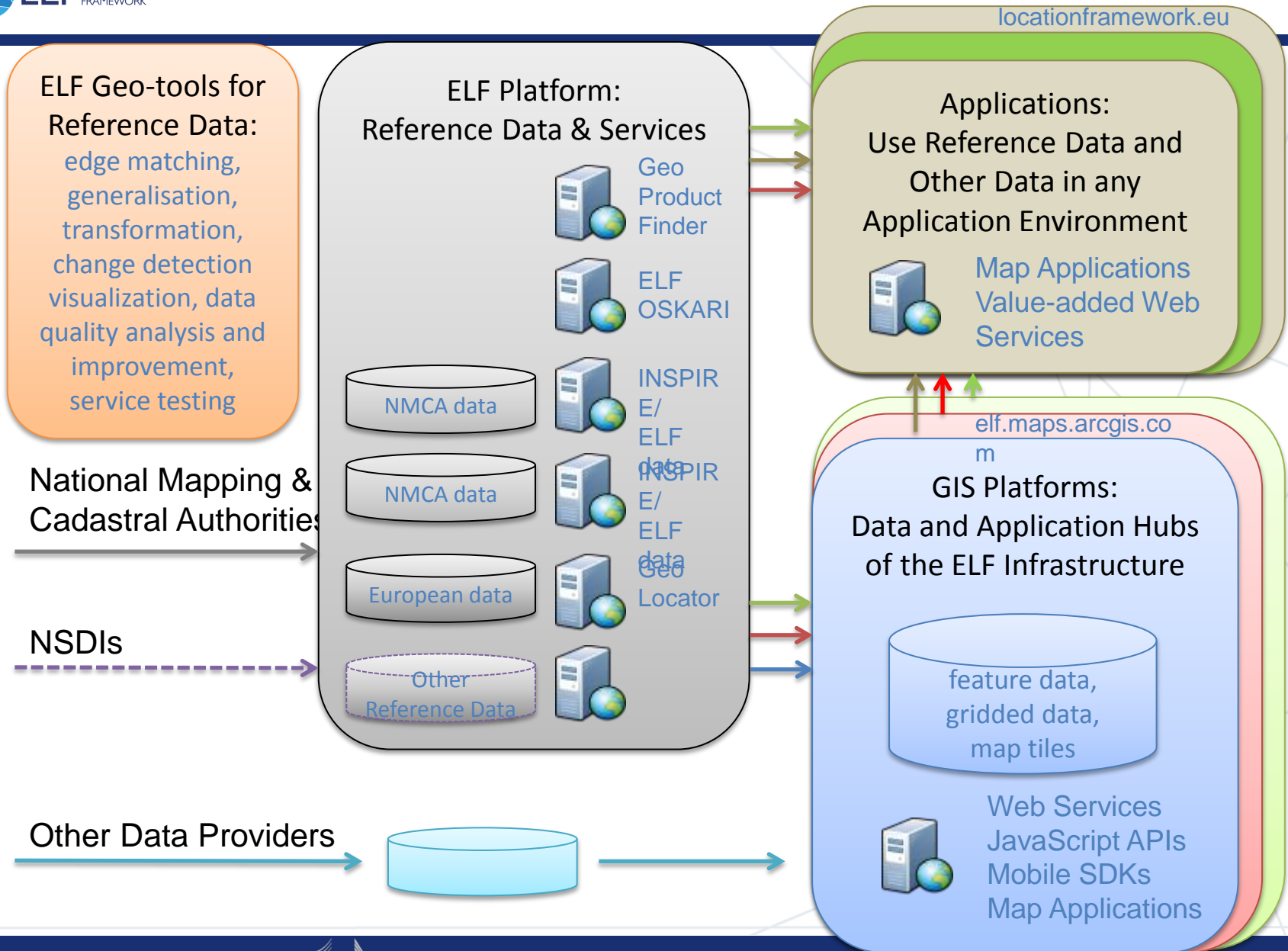
By: Anja Hopfstock, BKG

Date: 20.01.2015

Agenda

- ★ ELF architecture
- ★ Data Quality Management
- ★ Data Quality Reporting
- ★ Summary & Conclusions

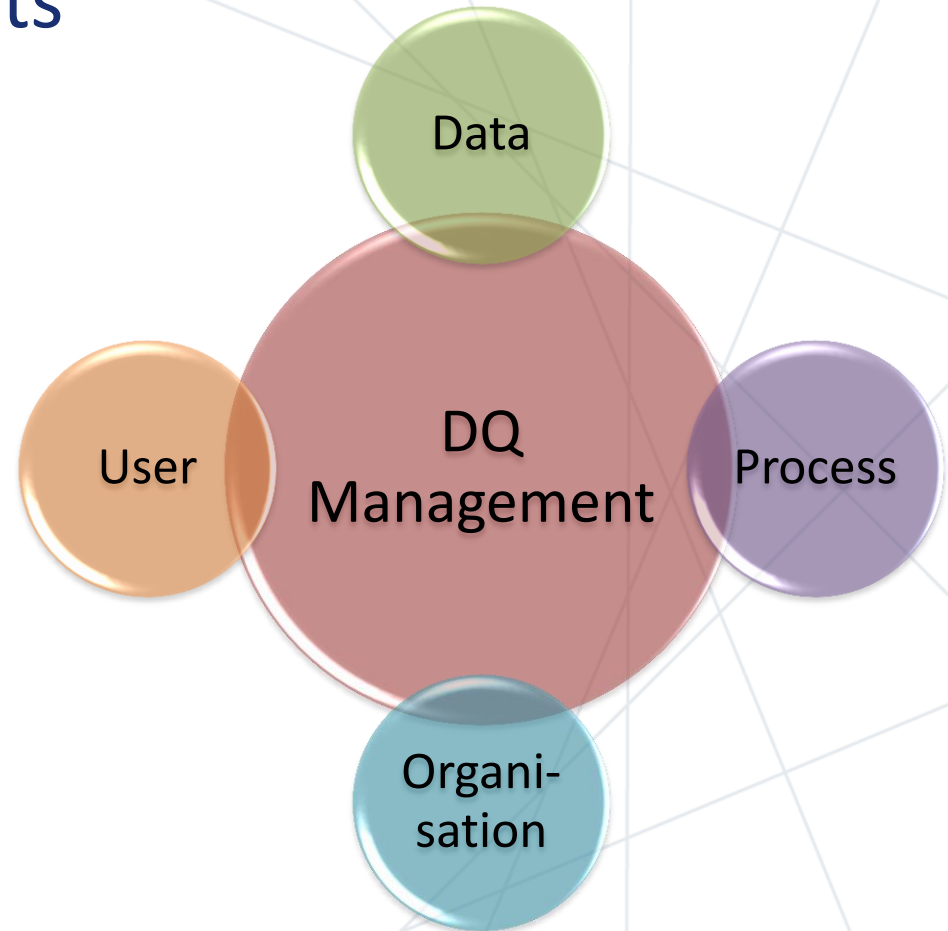
ELF Architecture



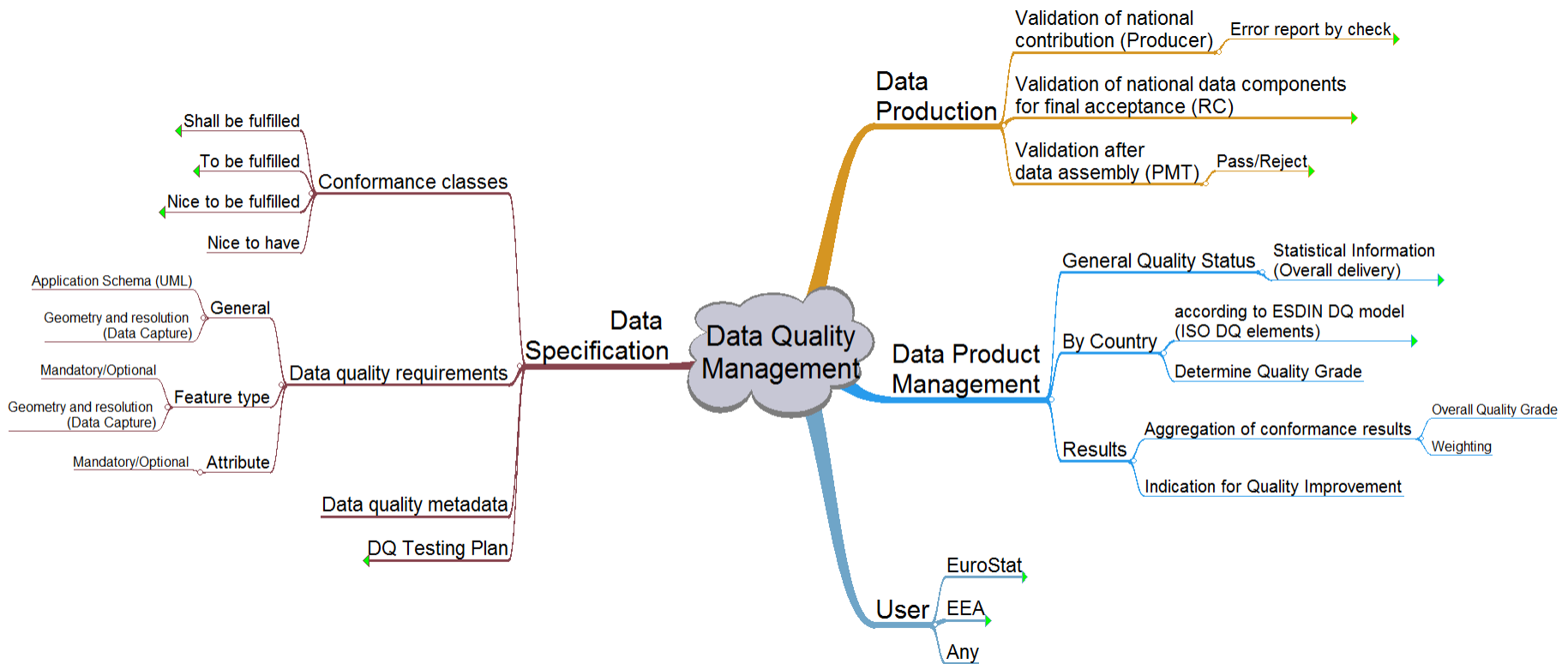
Data Quality management

Data Quality Viewpoints

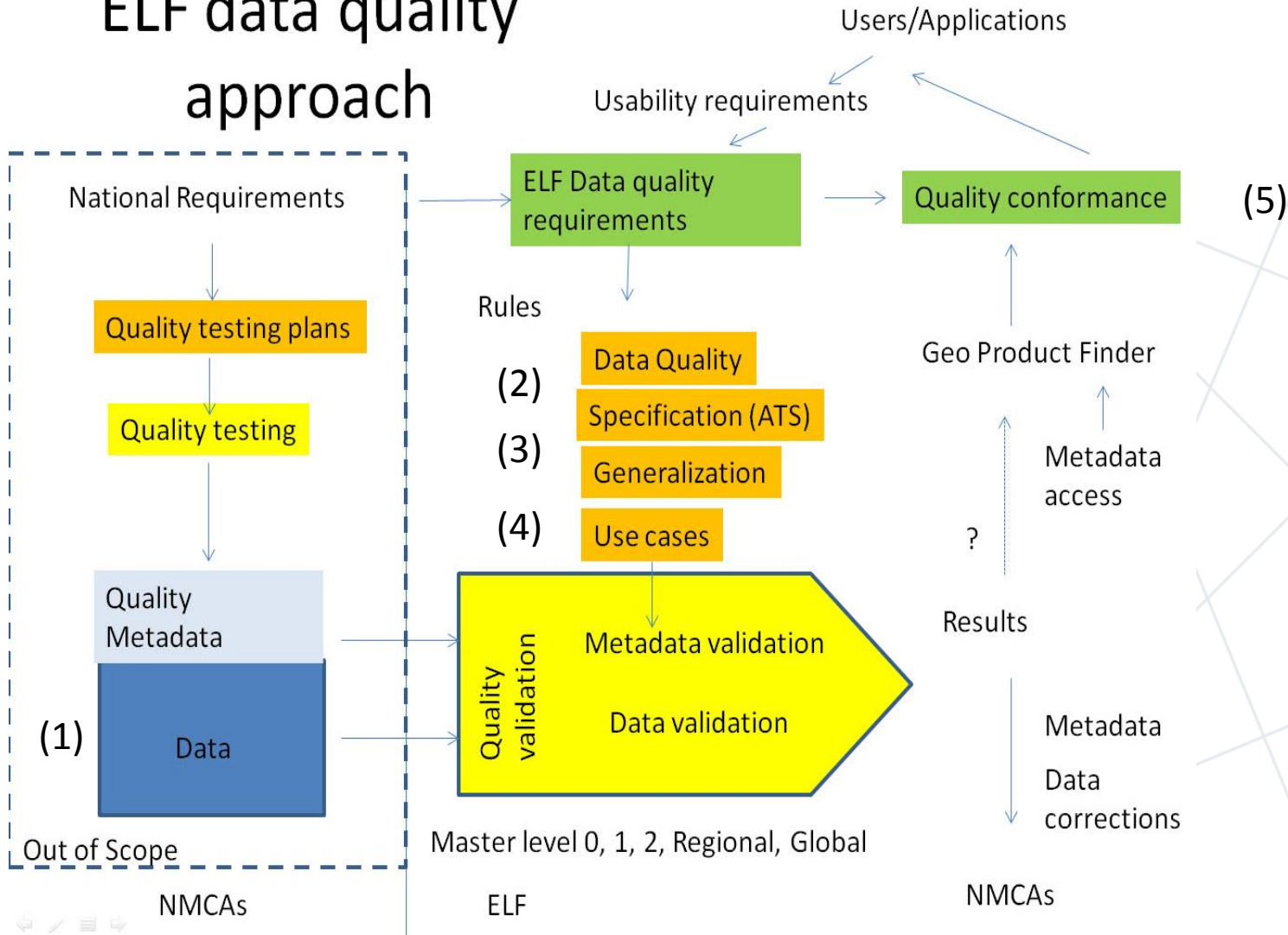
- ★ Data
 - ★ Conformance with data specifications
 - ★ Detailed error reports
- ★ Process
 - ★ Production process
 - ★ Validation tools
- ★ Organisation
 - ★ General DQ status
 - ★ Comparative assessment
- ★ User
 - ★ Usability for intended use



Experience from Eurogeographics



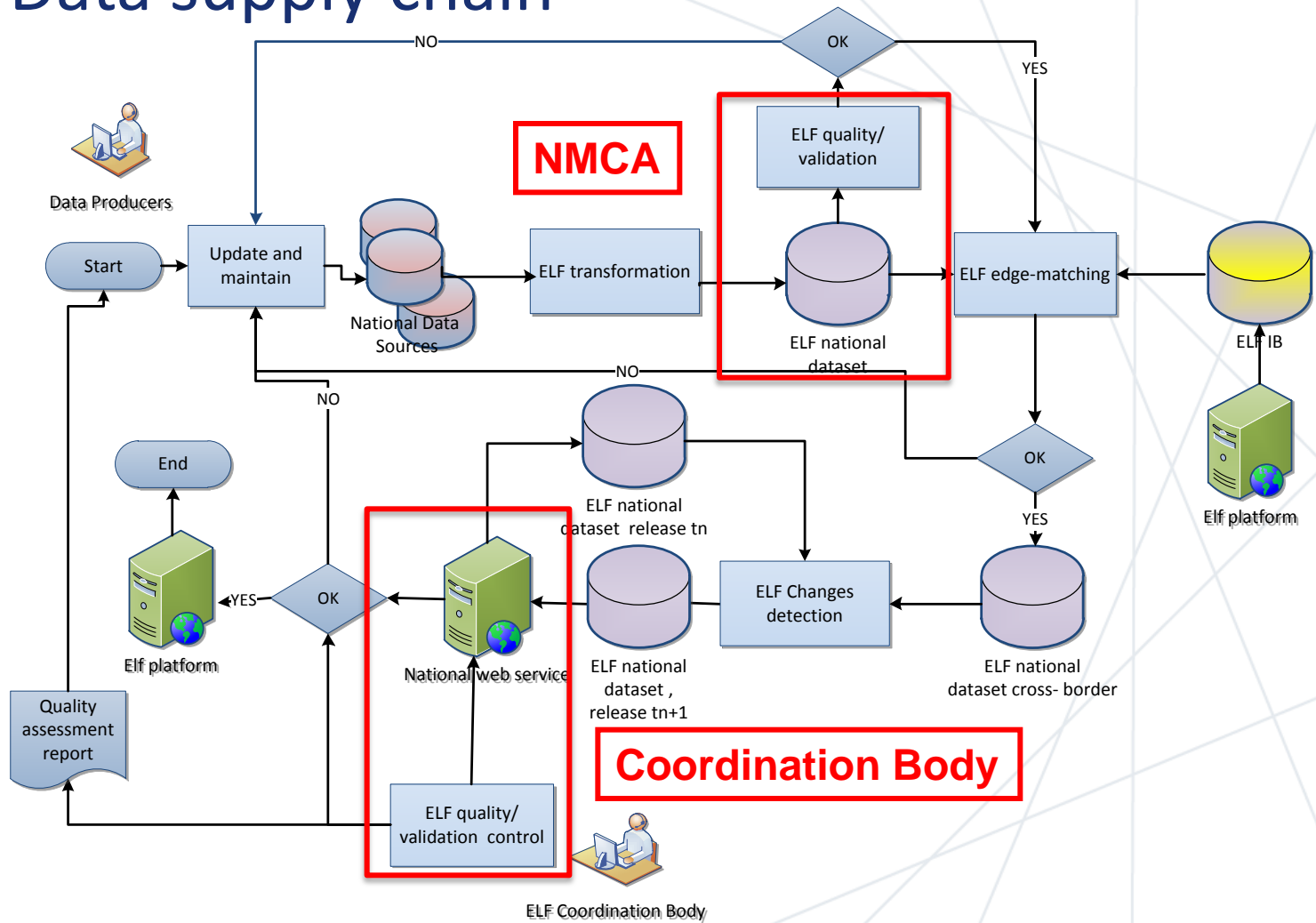
ELF data quality approach



Data Quality Reporting

How data quality reporting can organised to meet the expectations of producers, management and users?

ELF Data supply chain



National producers (NMCAs)

- ★ Check national data after transformation into ELF specification, send error statistics and feature statistics to Coordination Body
- ★ State if change detection tool and/or edge matching tool was used and send reported error statistics from tools to Coordination Body
- ★ Report national specifics in metadata
 - ★ Completeness: missing feature and attribute information
 - ★ Mismatch in classification
 - ★ Currency
 - ★ Scale

Out of scope for ELF: checking of national requirements and checking against reality

Coordination body

Final acceptance to ELF platform

- ★ Check error statistics, feature statistics and metadata from national producers
- ★ State if data is accepted (as INSPIRE or ELF) or rejected, ask NMCA to improve the data quality if necessary

Data quality reporting for users and ELF management

- ★ Review error statistics from all processing steps and metadata for a specific use case (only a part of the requirements have to be met)
- ★ Aggregate quality results
- ★ Original feature statistics and metadata also available in ELF GeoProductFinder

Expert Reviews

Input:

- ★ Quality information coming from each interoperability process
- ★ Feature statistics from data quality tools
- ★ Metadata on data quality general information (national specifics)

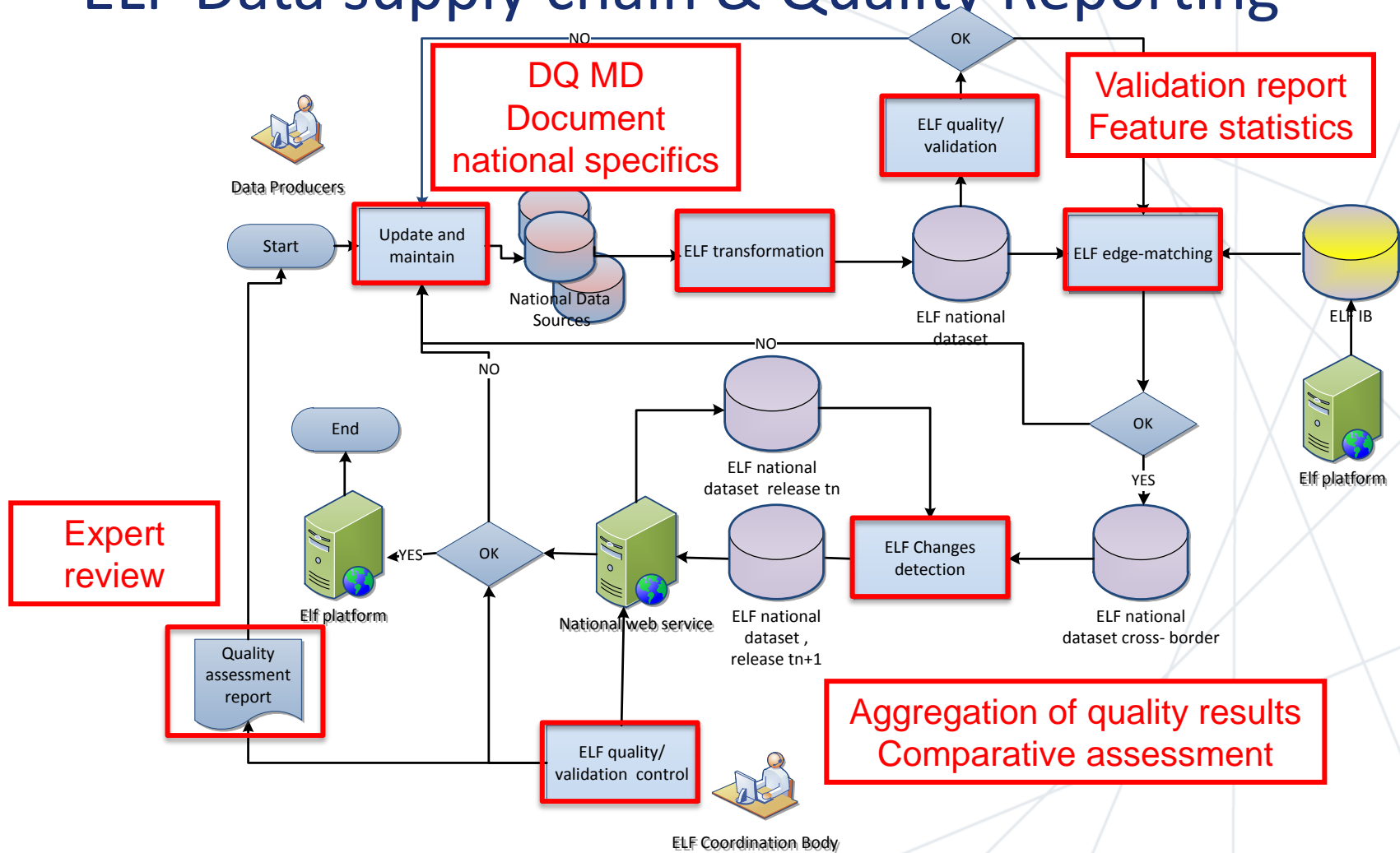
Aggregate results for reporting to ELF management and users

- ★ comparative assessment
- ★ agreed conformance classes (for themes, not whole countries)
- ★ acceptance levels based on use cases and user requirements.

Aggregated quality results made available in ELF GeoProductFinder as “Expert Reviews”

Summary & Conclusions

ELF Data supply chain & Quality Reporting



From isolated components to integrated, cross-border seamless authoritative reference data ...



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Thank you!

Contact: anja.hopfstock@bkg.bund.de