



EU Smart Grids Task Force
Expert Group 1 – Data Interoperability

EU Data Interoperability

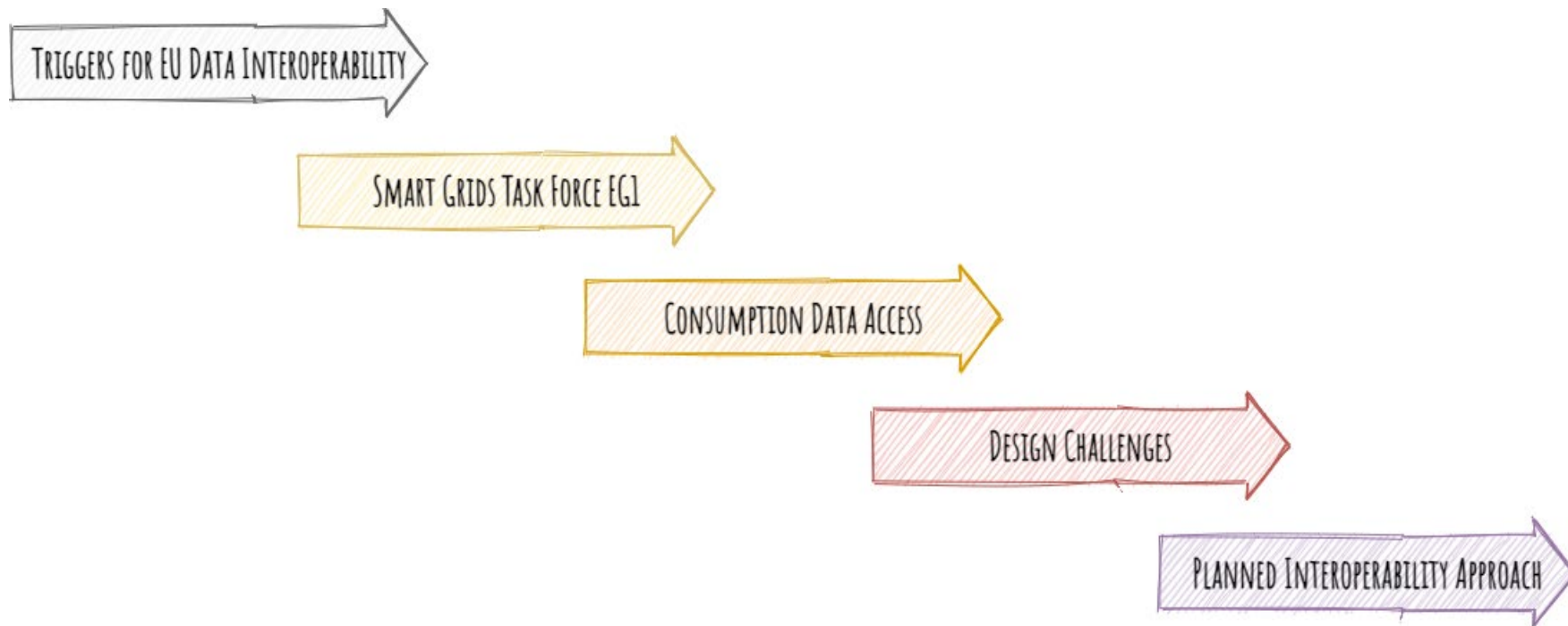
IEEE/Elering Workshop

Standardization of Private Data in Energy Markets

Georg Hartner, February 23rd 2021



Agenda



Trigger for interoperability effort

Directive (EU) 2019/944 of the European Parliament and of the Council of 5 June 2019 on common Rules for the internal Market for Electricity

Article 20 Functionalities of Smart Metering Systems

Make validated historical consumption data and near real-time data directly from meter available!

Article 23 Data Management

Provide rules for access to customer data (regarding metering and consumption, demand response, billing, switching and others) by eligible parties!

Article 24 Interoperability Requirements

Commission shall facilitate full interoperability of energy services based on national practices via Implementing Acts!

Smart Grids Task Force

EXPERT GROUP 1 - DATA INTEROPERABILITY

EXPERT GROUP 2 - SECURITY

EXPERT GROUP 3 - DEMAND RESPONSE

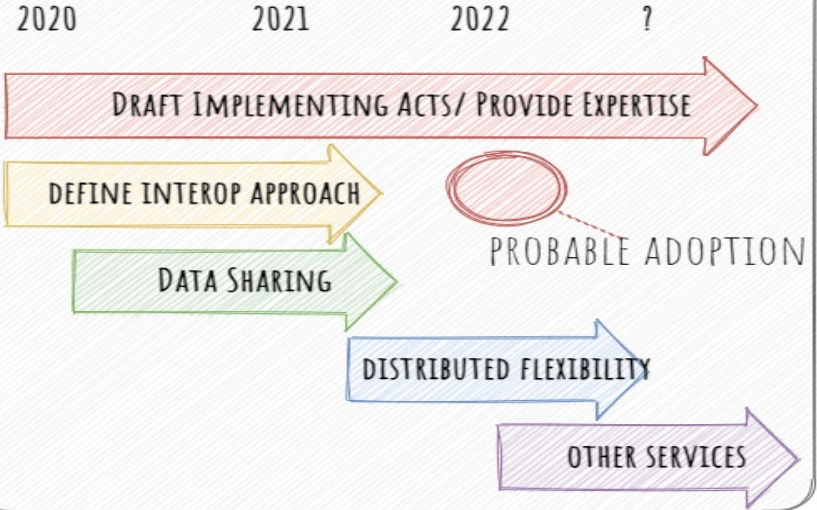
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PAST ACTIVITIES

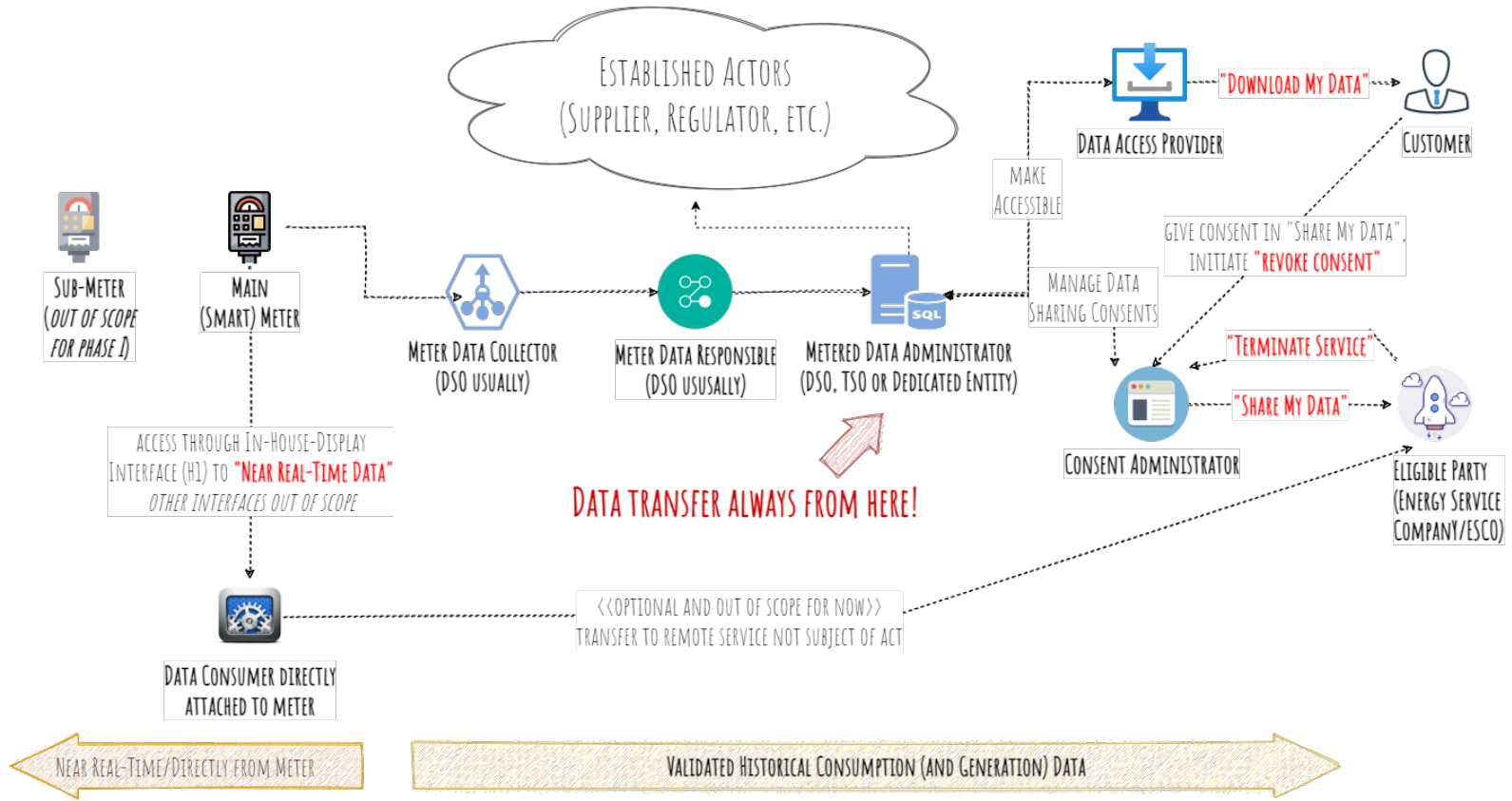
- Report “My Energy Data”: Lay the ground for data sharing, define use cases.
- Report “Towards Interoperability within the EU for Electricity and Gas Data Access and Exchange”: Lays the ground for Implementing Acts, recommendations as design principles

CURRENT AND PLANNED

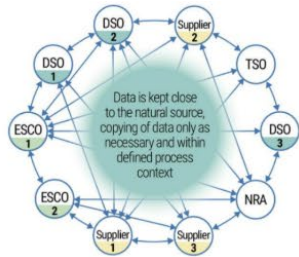


for a consistent interoperability approach.

Data access scope – meter data “en route”...



Design challenges for interoperability approach



DE-CENTRALISED

AUSTRIA
GERMANY
FRANCE
SPAIN

...



HYBRID



ISSUES TO SOLVE...

- Diversity of national approaches
- Different Implementation Degree in Member States
- Legal Text vs. Standard
- Achieving Comparability
- Right level of Prescriptiveness



CENTRALISED

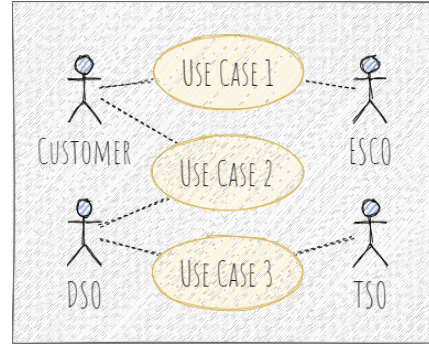
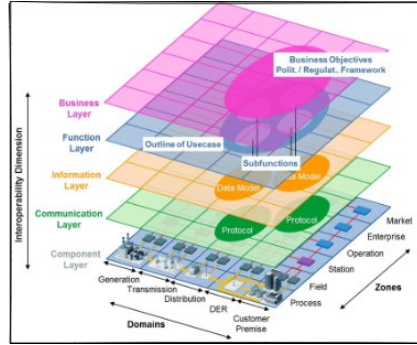
ESTONIA
FINLAND
DENMARK
NORWAY

...

GRAPHICS SOURCE: GEODE FACT SHEET ON DATA MANAGEMENT
(<https://www.geode.eu.org/wp-content/uploads/2020/05/202005-FACT-SHEET-GEODE-DATA-MANAGEMENT-FINAL.PDF>)

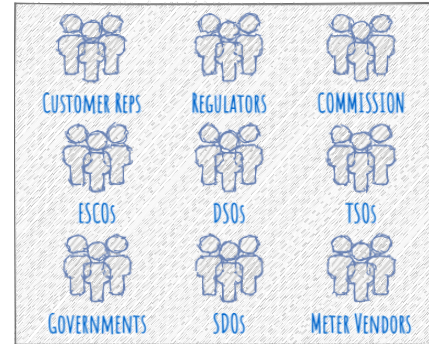
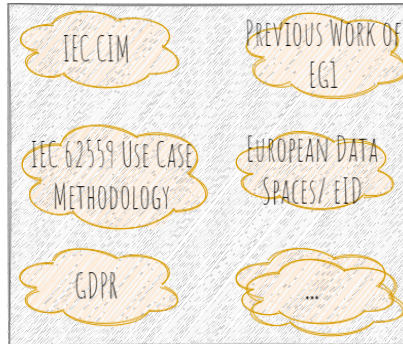
Pillars of our work

SMART GRIDS ARCHITECTURE MODEL (SGAM)
 CEN/CENELEC/ETSI (2012)
 M/490 SMART GRIDS COORDINATION GROUP



EUROPEAN ROLE MODELS
 HARMONISED ELECTRICITY/GAS MARKET ROLE MODELS
 IEC MY ENERGY DATA AND LEGAL TERMINOLOGY

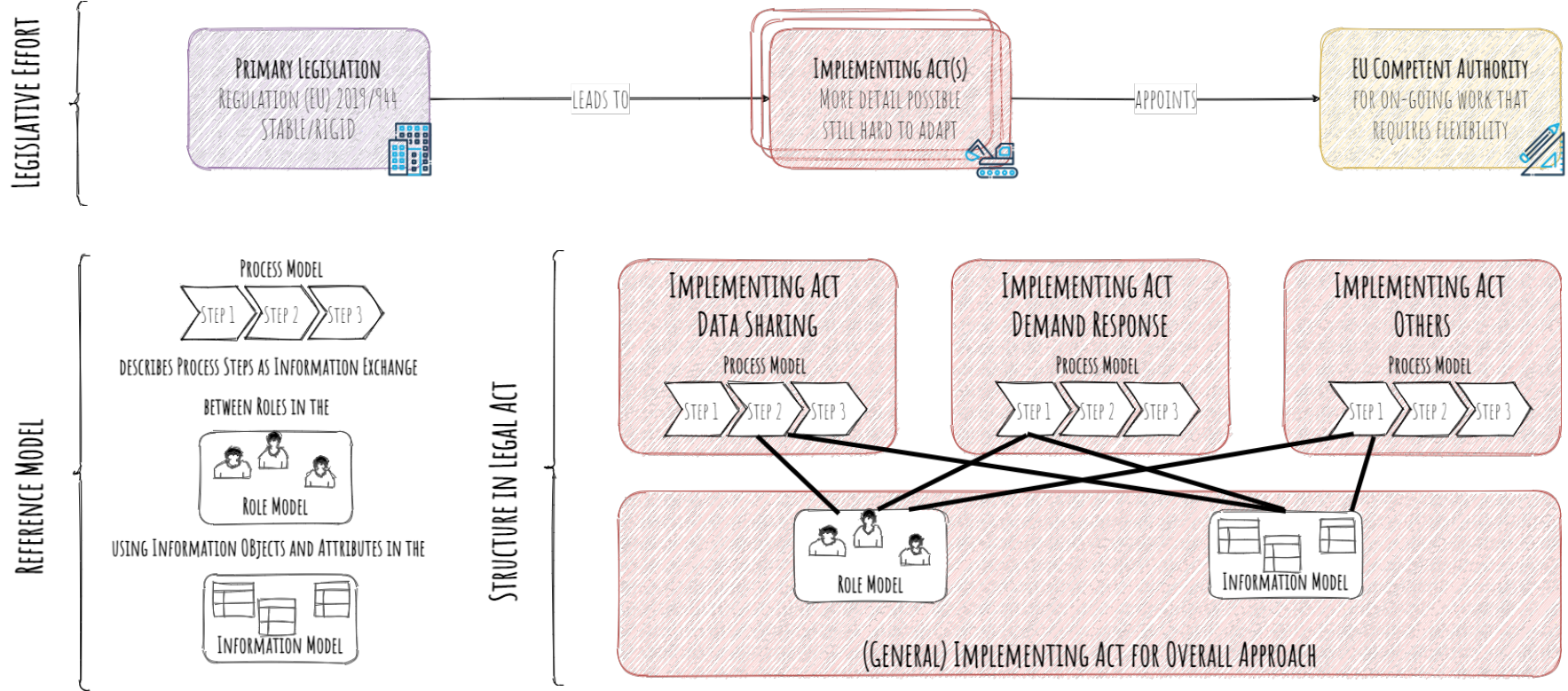
INTEROPERABILITY TOOLKIT



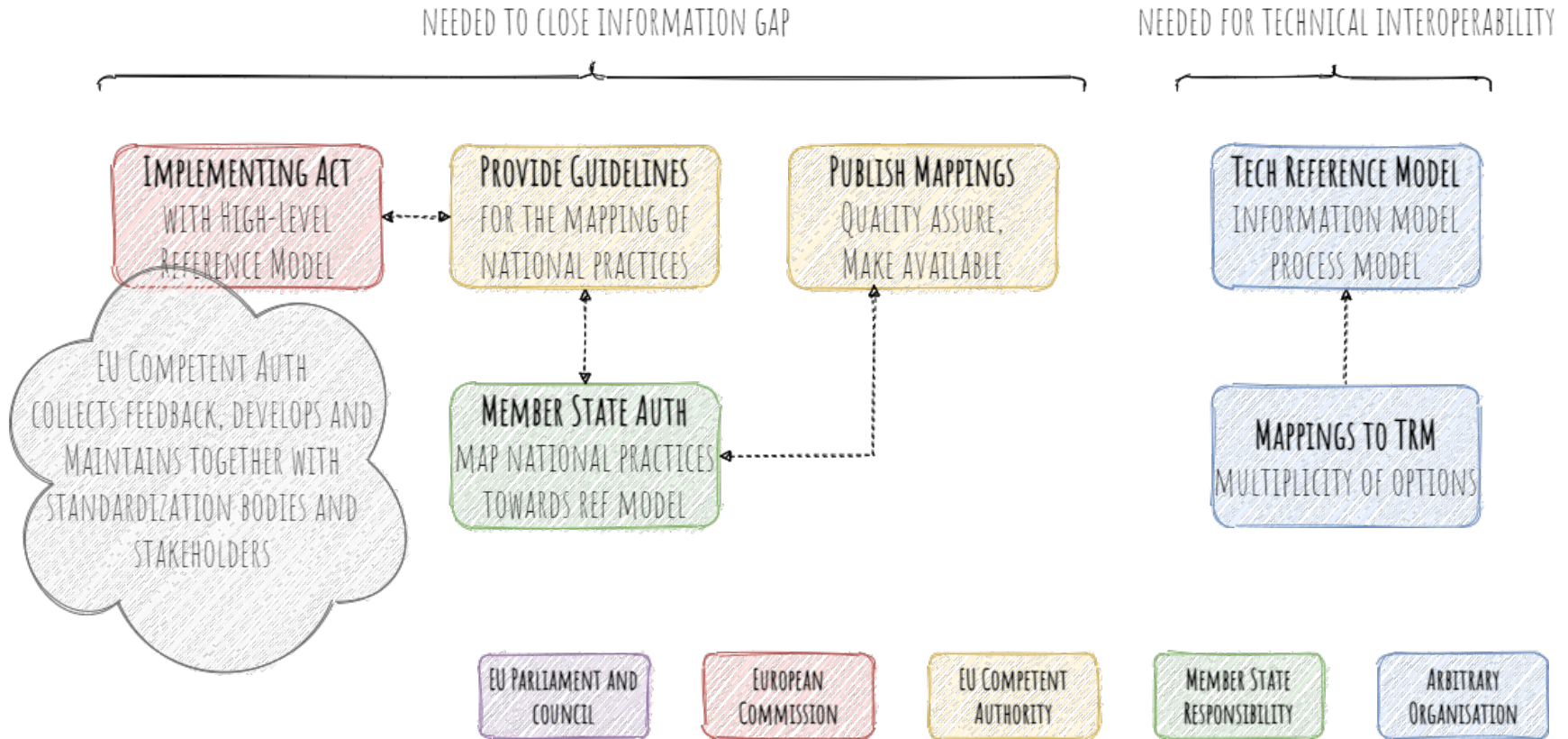
VERY, VERY IMPORTANT!

STAKEHOLDER INPUT (NON-EXHAUSTIVE LIST)

Planned approach



Foreseen high-level activities



Thank you for your attention...

JUST THE END OF A BEGINNING...



WE NEED YOUR FEEDBACK



AUDIENCE QUESTION & ANSWER

PLEASE SUBMIT YOUR QUESTIONS BY PRESSING ON THE Q&A BOX

The speakers will try to get to all questions within the allocated time. Questions will be answered based on order received.



Q&A



THANK YOU

If you have questions or comments about the program, contact Rudi Schubert, r.schubert@ieee.org