

SOGNO Impact on Regulatory Framework

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State of the Art for Distribution Grid Codes



Major effort made to update the regulatory framework focused on the **Electricity Transmission**



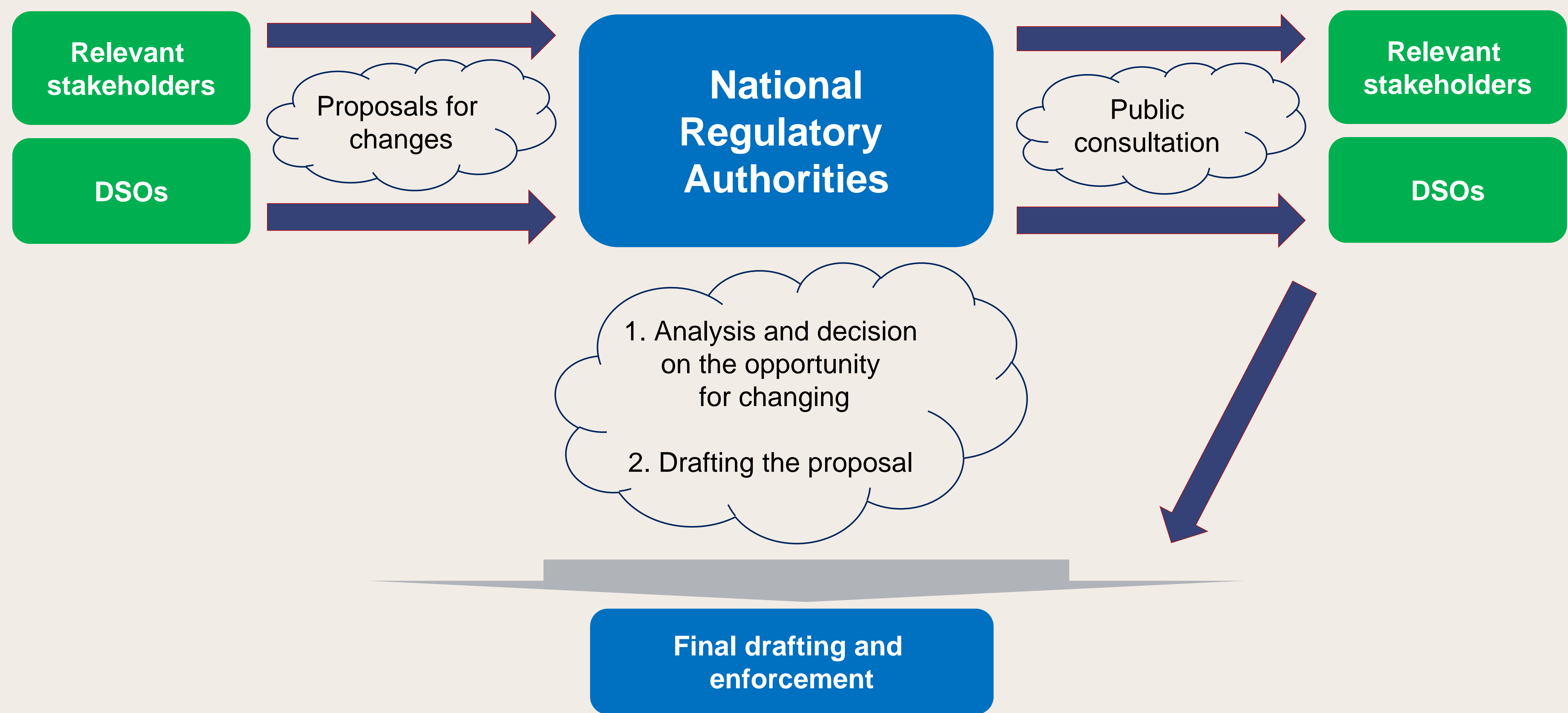
The lack of formal Organizations at European level has slowed down the dynamics of regulatory updates regarding the **Electricity Distribution Grid**



SOGNO assumes the **role of breaking new territories** addressing the **Distribution side**



NCs changing Process for Distribution Systems



Potential Proposals Impacting NCs

**Aggregator,
Prosumer,
Software Platform
Service Provider,
etc.**

- **Analysis and identifying the specific requirements for properly running the Business Models**

**NCs Updates &
other Regulatory
Issues**

Expected Impact on Regulations

New generation of inverters

- Voltage control capabilities
- Active power control capabilities
- Data transfer capabilities

Forecast services to be performed by the DSOs

- Load (consumption)
- Generation (production)
- State estimator

New Policies to incentivize RES

- Support for Reduction of energy losses
- Peak shaving
- Combined Generation and Energy Storage

ICT requirements in Distribution Grid Codes

Extended deployment of distributed generation

Significant increase in the no. of prosumers

Development of the aggregator as a new actor in the power sector

The need for clear specifications on the **quality parameters of data transfer** and remote controls.

NEW chapter in Distribution Grid Codes

Preliminary Consultations performed so far

SOGNO workshop – Bucharest

Participants: DSOs, Romanian Regulatory Authority, representatives of academic and business environment

Bilateral meeting Romanian Energy Center - ANRE

Participants: representatives of Romanian Regulatory Authority (ANRE)

Bilateral meetings Romanian Energy Center - ACER

Participants: representative of Agency for the Cooperation of Energy Regulators (ACER)

Feed back obtained:

- The solutions and services proposed must prove their **effectiveness in Field Trials**
- **Clear rules on costs recognition** by the Regulator
- **ICT's role exponentially increases** in the new market configuration and may require a dedicated **ICT chapter** within network codes
- There is already a debate on the idea of a **European Distribution Code** - pros and cons

Next Steps: Impact Assessment of the Regulatory Framework



SOGNO solutions effectiveness proved in field trials

Package of proved arguments to promote proposals with impact on distribution grid codes

Bilateral discussions with 3-5 European regulators from different countries

Backing up proposals for changes to distribution grid codes

Involvement in debates on the development of the European distribution grid code

Tracking and backing on possible synergies in supporting proposals

Communicating a well-founded set of information to:

- **European Associations** (EURELECTRIC, ESDO for Smart Grids, EASE, EPIA, etc.) that can contribute in dissemination and can jointly support lobbying
- **Standardization Institutions** (CEN, CENELEC, etc.) that can adopt standards relevant to the context of SOGNO

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SERVICE ORIENTED GRID

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