



TSCNET
Services

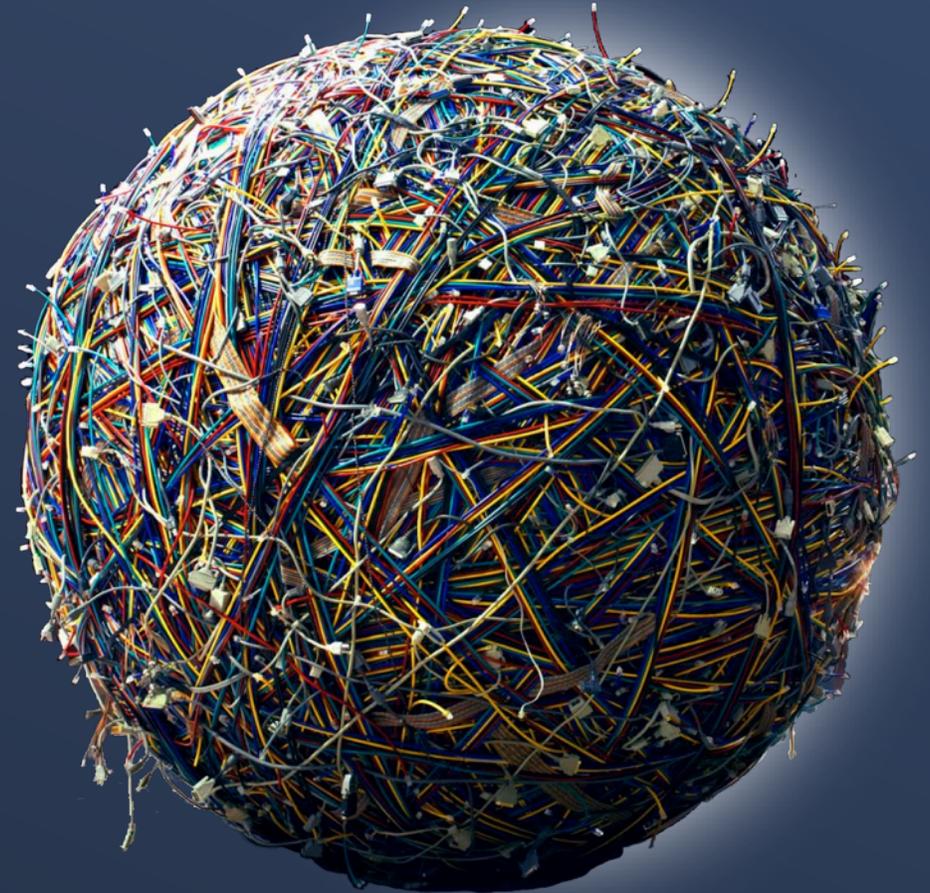
Connect. Create. Coordinate.

RSC complexities and future challenges

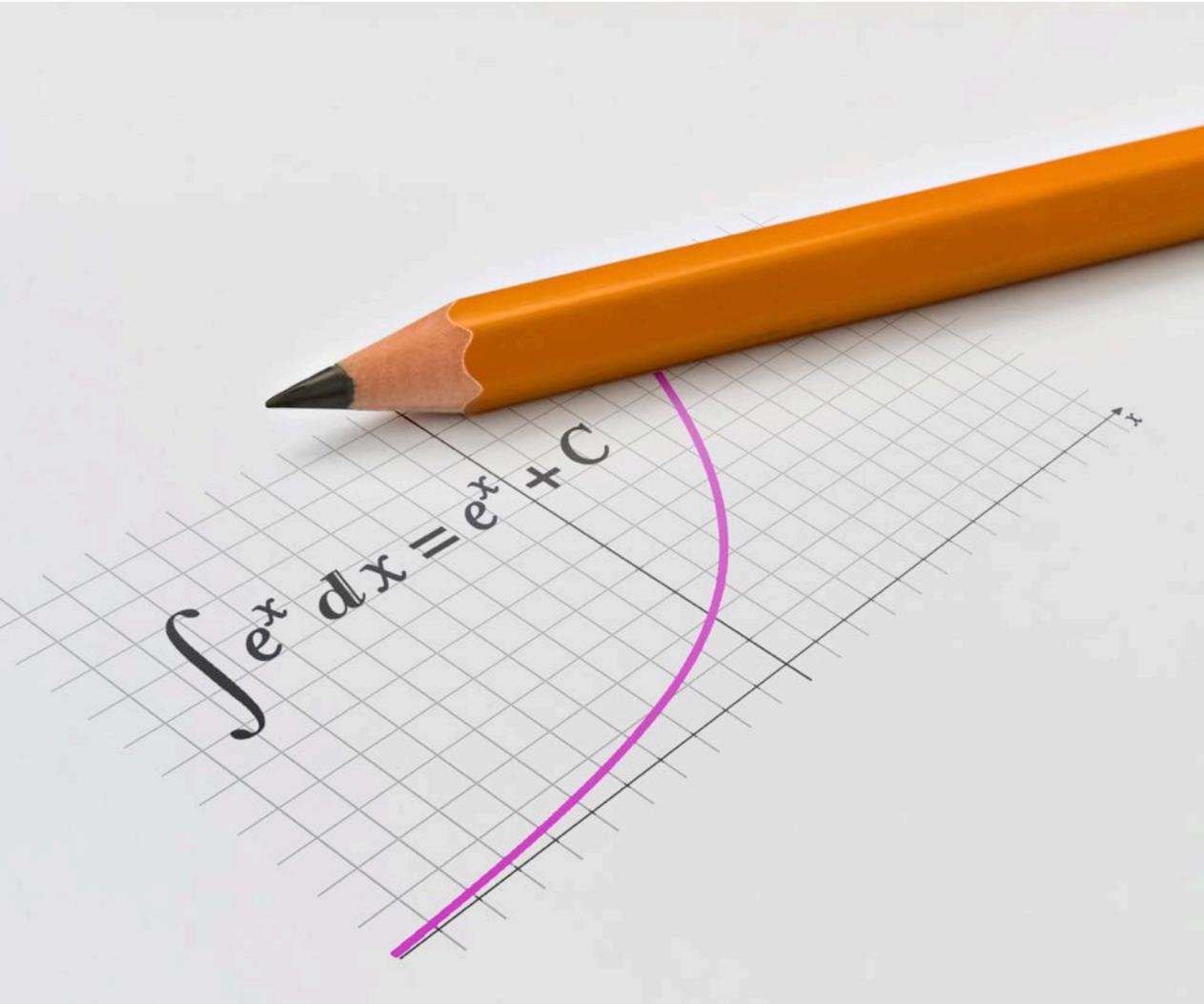
RSC Conference 2019, Copenhagen
Maik Neubauer, TSCNET Services

Starting with why...

“Why it is so complex
to just implement
the five mandatory
RSC services?”



Defining – (Business) Complexity



“A high **business complexity** is caused by tight regulatory timelines paired with interconnected stakeholders, information systems and organizational structures.

The complexity level increases nearly **e^xponentially** with the number of alignments with stakeholders and customers”

Forrester Research, Harvard Business Review

Regulatory Environment

3rd Energy Package

EU Network Codes & Guidelines

ENTSO-E Security Plans for specific services

Clean Energy Package

Compliance with national regulation

More to come..

Stakeholders



TSO in Shareholder role

TSO in Customer role

ENTSO-E Association & Working Groups

EU Commission & Memberstates

National Regulators & ACER

Regional Forums & Power Market

Regional requirements and coordination



Capacity Calculation Regions

RSCs assignment as Capacity Calculator

System Operation Regions

Future RCC assignments under CEP

Coordination between regions

Inter RSC/RCC Coordination

Turning methodologies into processes

TSOs/ENTSO-E as creators of methodologies

Assessment & approval process by NRAs

ACER involvement & guidance

Transposition of methodologies into processes

Prototyping & Experimentation needed

Basis for IT tools & industrial implementation

Supporting processes with efficient IT

Pan-European tools and platforms

Modern, reusable architecture

Interconnectivity between RSCs and ENTSO-E

24/7 availability & business continuity

All based on a central data model

IT & Data Security in focus

Organisational Capabilities of the RSCs...



“We need this –
to fulfil all goals”

Organisational Capabilities of the RSCs



“But in some areas we are not that far yet, since we are stepping into unknown territory.”

Future Challenges



- Close communication and interaction with our stakeholders
- Common development of realistic goals
- Interregional cooperation
- Implementation of secure, reliable and future proof IT platforms
- Overengineering and simplification

The complexity in our business ...

... will continue to increase
in the coming years.

***We can only solve this
in close and trustful
cooperation.***

Thank you!