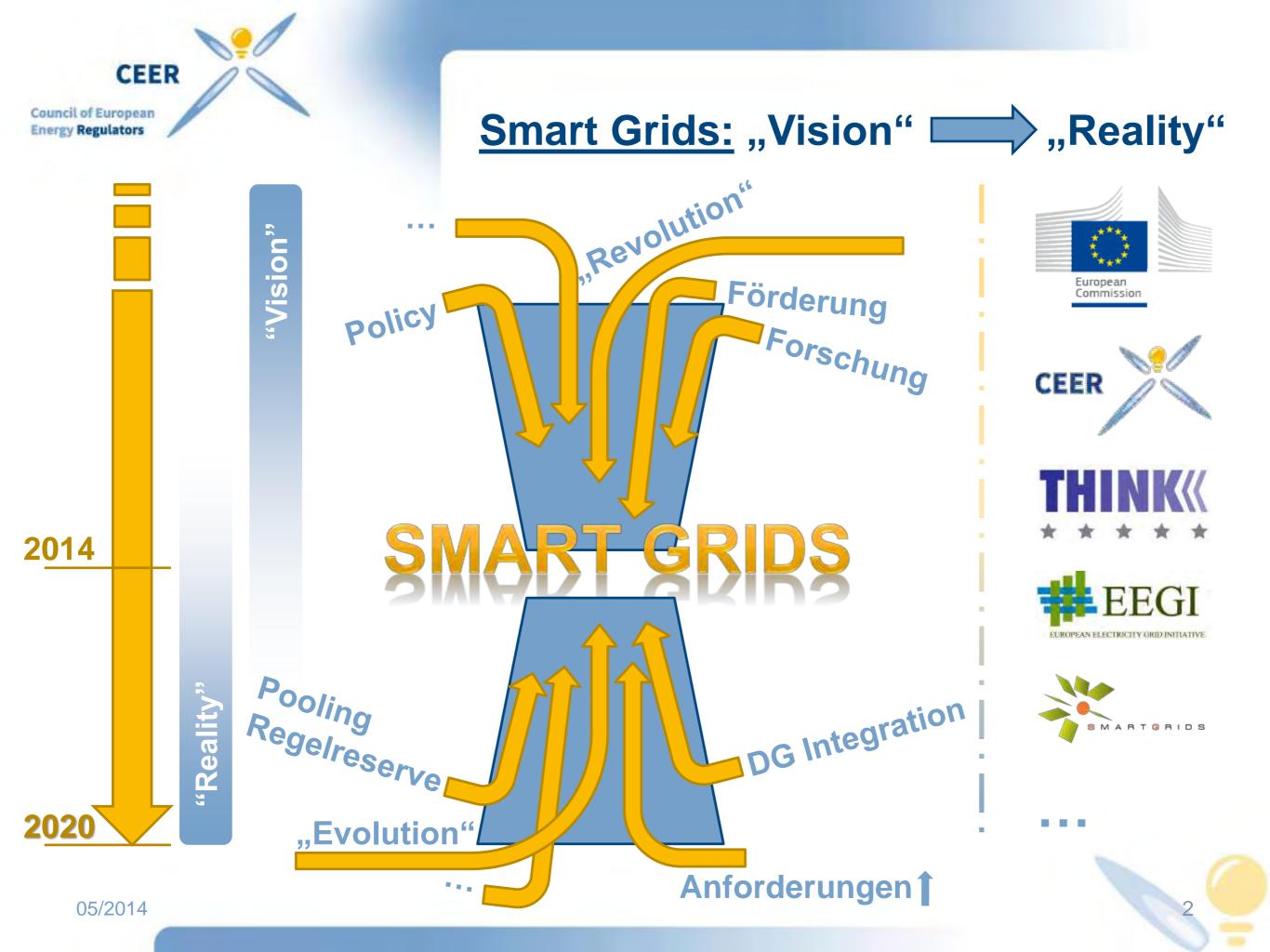


Fostering energy markets, empowering **consumers**.

Smart Grids Week | Graz 2014

Smart Regulations – aktuelle Entwicklungen aus den Europäischen Regulierungsaktivitäten

Dr. Werner FRIEDL Chair of CEER EQS and Smart Grids TF Graz, Mai 2014



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Grundsatz-/Schlüssel Fragen I/II

Wie komplex/kompliziert soll/darf ein zukünftiges elektrisches Energiesystem sein? (brauchen wir neue Services/"Komplexität"?)

Haben "wir" die Möglichkeit/(Wahl) das el. Energiesystem zu "vereinfachen"? (was wird passieren, wenn regulierte Unternehmen ein System entwickeln, welches sie glauben, dass sie in Zukunft brauchen werden?)

Wer soll die Rolle/Themen-Führerschaft für neue Geschäftsideen übernehmen? (Was brauchen (neue) Marktteilnehmer/Aggregatoren?)



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CEER Smart Grids reports ...

Position Paper in 2009

Conclusion Paper in 2010

- CEER Status Review on European Regulatory Approaches Enabling Smart Grids Solutions ("Smart Regulation")
- The definition of smart grids
- The regulatory and commercial challenges
- Plans for implementation of smart grids
- Encouraging innovative solutions in el. networks
- Cost benefit analysis
- Potential performance indicators

the report is based on the responses among CEER members (27 of 32 members)



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... and results of the CEER - "smart regulation"- report

Regulatory and Commercial Challenges

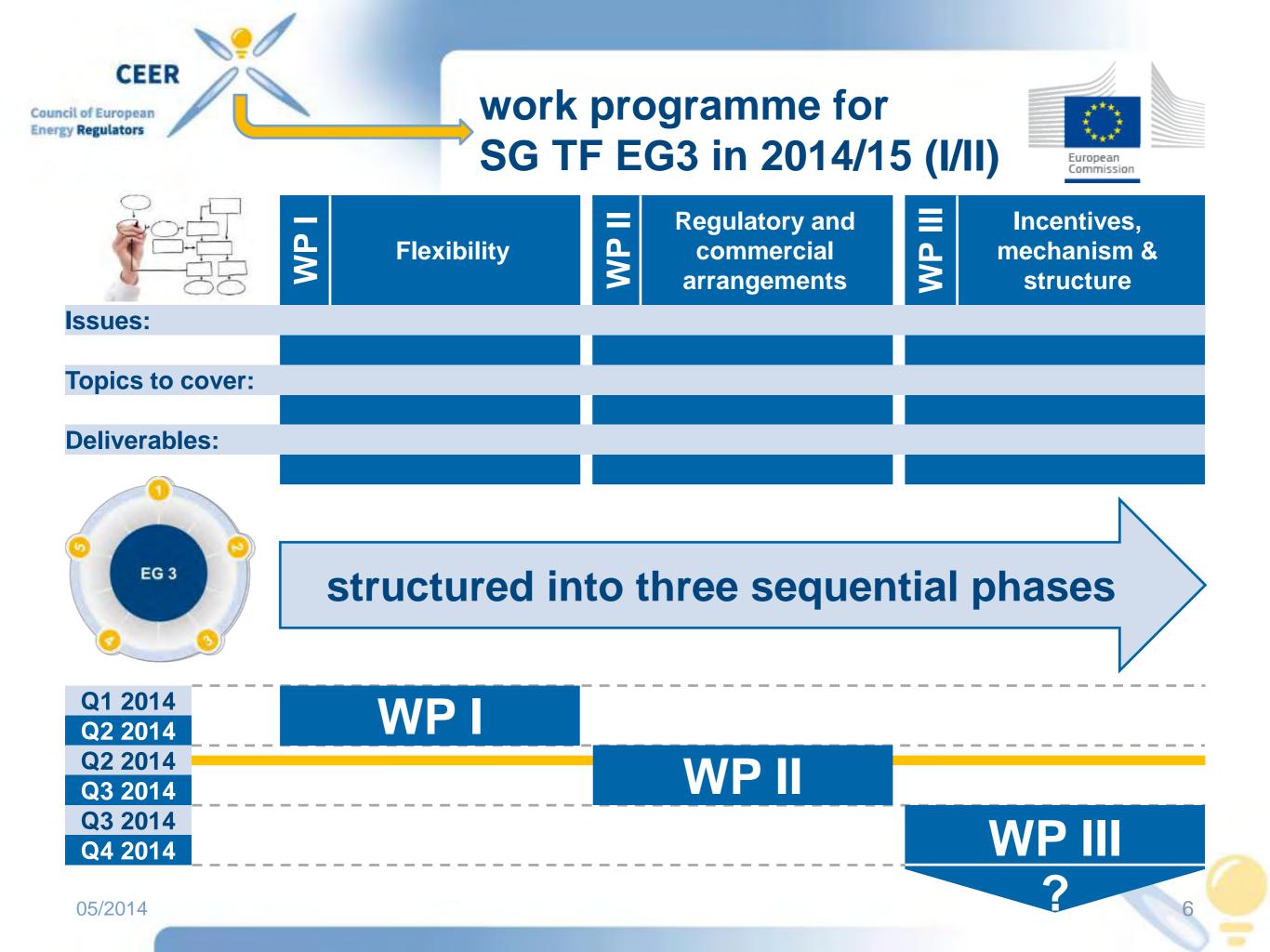
- Barriers(Regulations) vary at national level
- Challenges include: integration of RES and EV, customer engagement in DSR, data protection (smart meters)
- Adaptation of regulatory mechanisms and commercial and regulatory arrangements for smart grid development
- Emerging issues include information collection and handling, technology and investment risks, interoperability issues and standards

Roles and Responsibilities

- o DSO has major role in smart grid development along with NRAs and TSOs to a lesser extent
- Combination of stakeholders involved in DSR but DSO is dominant
- o DSO is expected to have a role in DSR for smart grid (and for domestic customers)
- DSO will be involved in DSR for domestics
- Customers themselves will be / are involved in a few countries

Incentive Mechanisms

- Demonstration projects funded by network charges, government budgets & 'other' sources (EC funds, DSO budgets, funding institutions)
- Regulatory mechanisms are in place to incentivise DSOs to undertake innovation projects
- $\circ~$ Incentives funded by combination of network charges, national government & EU funding
- Static time of use tariffs or load control through remote means will be used to incentivise DSR



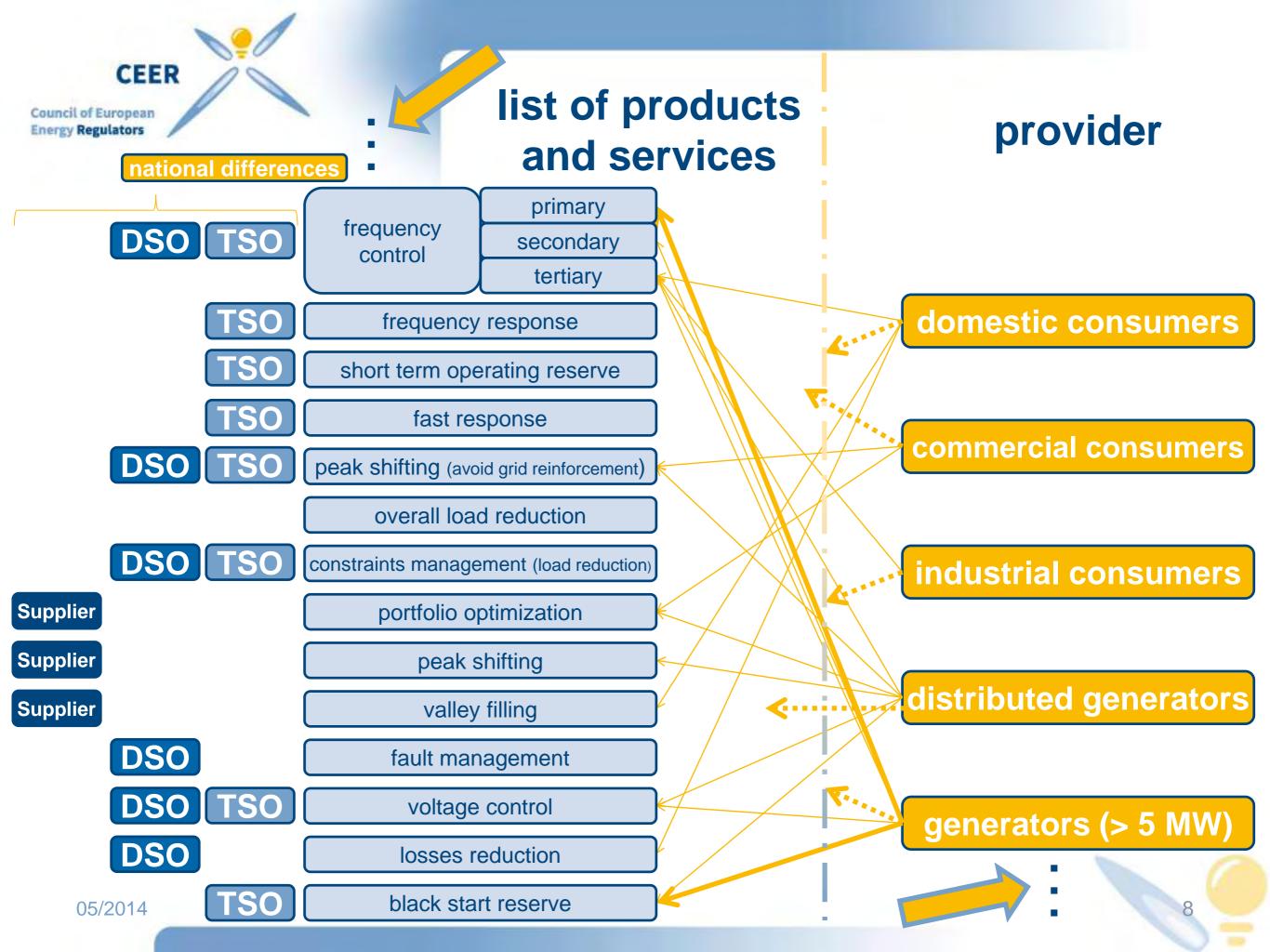
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work programme for SG TF EG3 in 2014/15 (II/II)



	Flexibility	Regulatory and commercial arrangements	Incentives, mechanism & structure
Issues:	 a) Understanding what services the system needs b) Understanding consumer opportunities and requirements/consumer segmentation 	 a) Adequate evolution of competitive market and services b) Limited market for new services 	 a) Uncertainty for investors to invest in smart grids b) General misunderstanding of smart grids c) Limited transparency on investments in smart grids
Topics to cover:	 a) Analysis of potential flexibility and customer requirements b) Maturity of technologies for cost-effective flexibility c) Best practices and Cost Benefit Analysis 	 a) Roles and responsibilities of stakeholders b) Commercial and regulatory arrangements to facilitate trading provisions of smart grid services 	tbd
Deliverables:	a) List of products and services per consumer segments to improve the overall efficiency of the grids and enable all users to participate actively in the energy market	 a) List of new products: description and design b) Regulatory aspects 	tbd

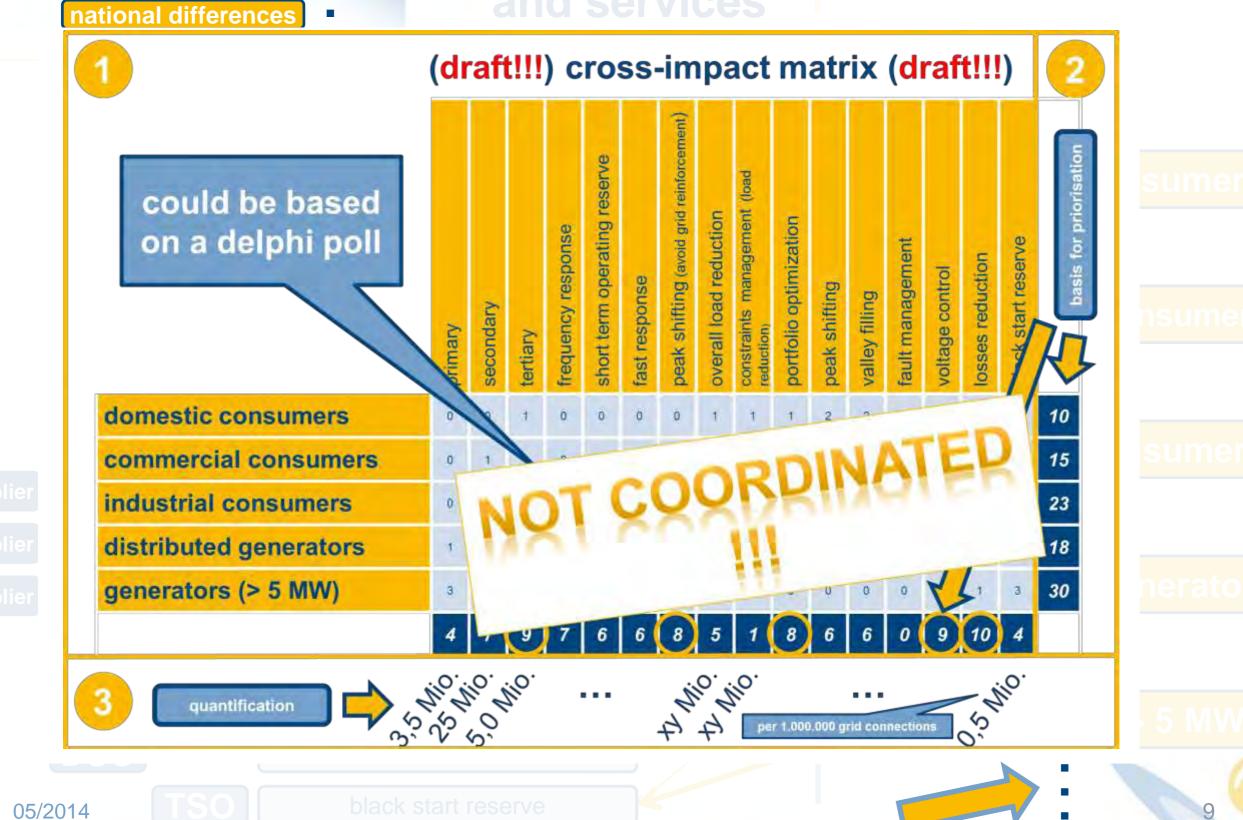
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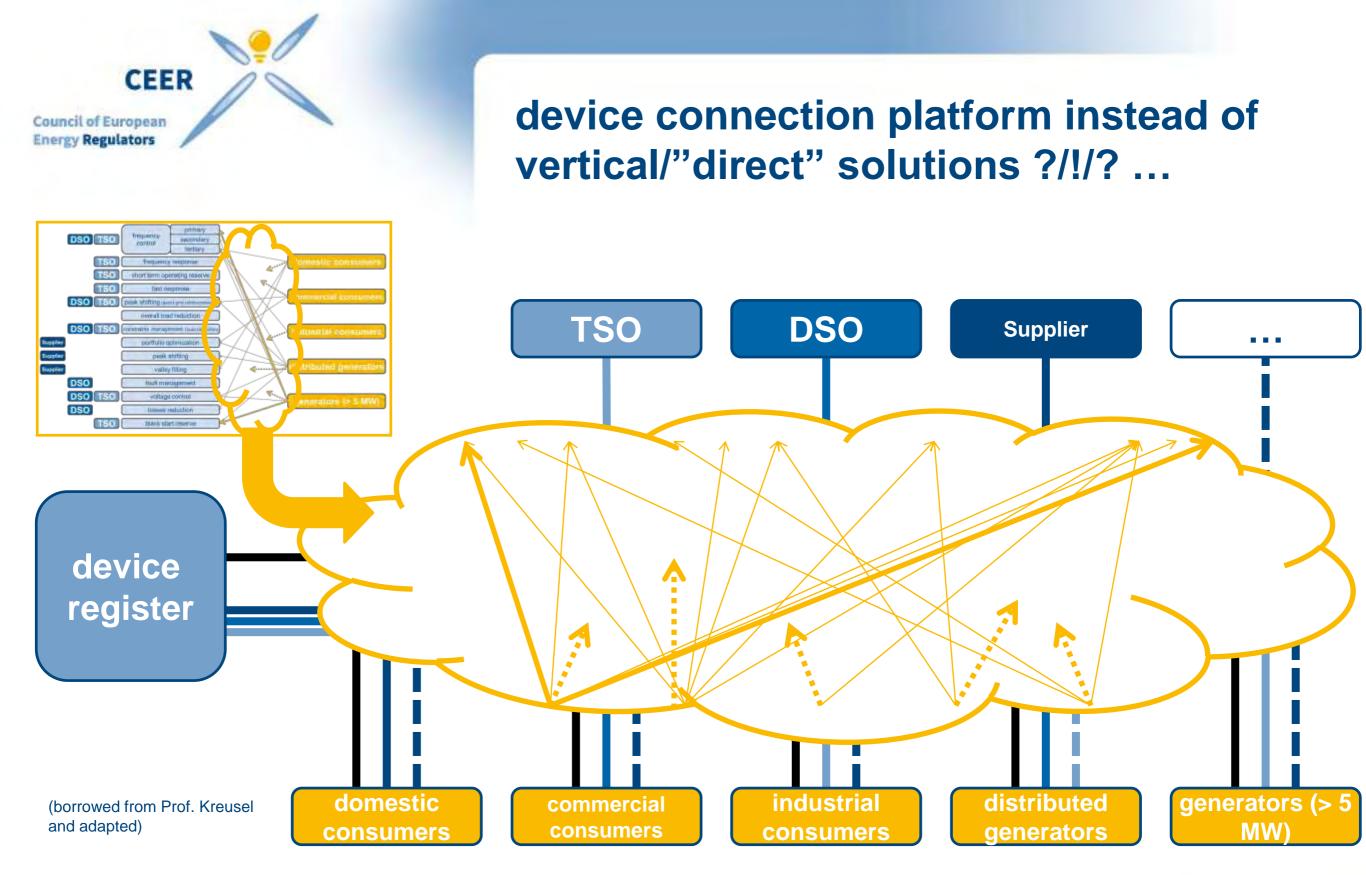




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provider





automated registration (mandatory), structural information

10

examples for case-by-case using of operational data

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Grundsatz-/Schlüssel Fragen II/II

- What kind of regulation is needed to ensure grid operator neutrality acting as market facilitator and a cost efficient operator?
- Which tools will be necessary to enhance (better) data exchange between market participants?
- How to incentivise demand response / new energy services from customers and/or market participants?

Thanks for your attention!

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