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Council of European  
Energy Regulators



# Dynamic regulation to enable the digitalisation of the energy system.

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Brussels, 19 March 2019



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#energydigital

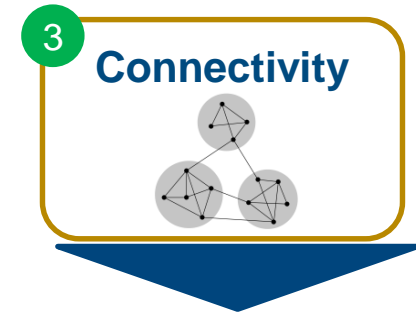
# Digitalisation relies on:



Produced by sensors, smart meters & devices in the system



Uses data to provide insights & is advancing with machine learning & AI



Digital networks provide for connectivity of devices & assets in the system

# Digitalisation of the energy system drives change and creates value propositions for consumers...

## Changes to the energy system

## Potential Value Propositions

1

### Efficiency



- Improved productivity for networks, generation and gas assets

2

### Changes Demand



- Smart buildings
- Mobility as a service
- New retail pricing and products

3

### New platforms



- Peer-2-peer trading
- Flexibility market places

### Savings



### Convenience



### Comfort



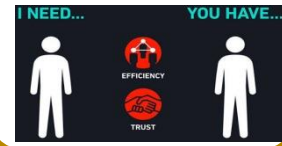
### Choice



### Autonomy



### Shared Econ



# To ensure that consumers benefit and risks are managed, certain issues will need to be considered..

1

## Data



**Privacy:** GDPR provides data protection requirements

**Cybersecurity:** recent CEER paper

**DSOs:** more focus needed on DSO network data

**Competition:** avoid incumbent monopoly over data being barrier to entrants

2

## Price



**Risk:** dynamic pricing and other products = new risks for consumers

**Transparency:** lower transparency of price in bundled products

**Price discrimination:** algorithms will facilitate targeted pricing – is this acceptable?

**Vulnerable consumers:** how to protect them as market gets more complex?

3

## Network regulation

**Efficiency:** use of flexibility vs investment; send the right price signals for local grid services from distributed resources

**TSO/DSO:** avoid duplication and missed opportunities

**Network tariffs:** risk that those less able to take advantage of new services are left to pay more?

4

## Regulators



**Skills:** digital capabilities required

**Consumer regulation:** improve coordination and speed; how/whether to regulate new intermediaries and platforms

**Learning:** from pilots of new products; from publicly-funded trials; from telecoms and financial services

## Next steps

- 1) Consultation document now published
- 2) Responses sought by 14 May 2019
- 3) Conclusions / further actions to be developed for Q3 2019 in light of responses

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**Thank you for your attention!**



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