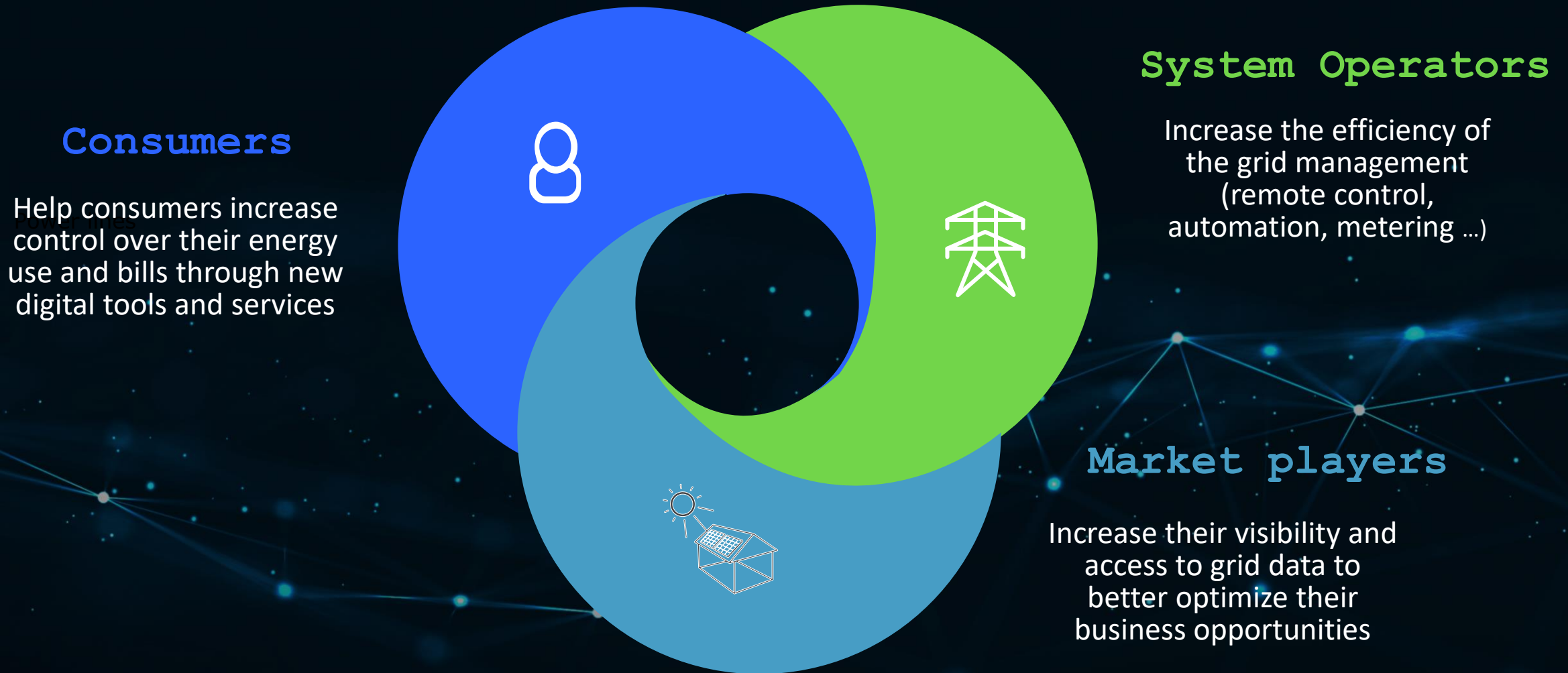


# Smart Energy Management



**Bruce DOUGLAS – Business & Communications Director, Eurelectric**

# Smart Energy Management: a game changer for all



The energy sector is increasingly relying on **data-driven technologies** and digital infrastructure to improve **efficiency, reliability, and sustainability**.

# Harsh reality: the energy system is poorly digitalised

Why ?

## INDUSTRIES ARE AT DIFFERENT STAGES IN THE ADOPTION OF DIGITAL TECHNOLOGIES

01

Fully digitalized players own the market with online stores and services such as Amazon or Netflix .

02

Digital has been a major focus with both customer-facing initiatives and back-office improvements

03

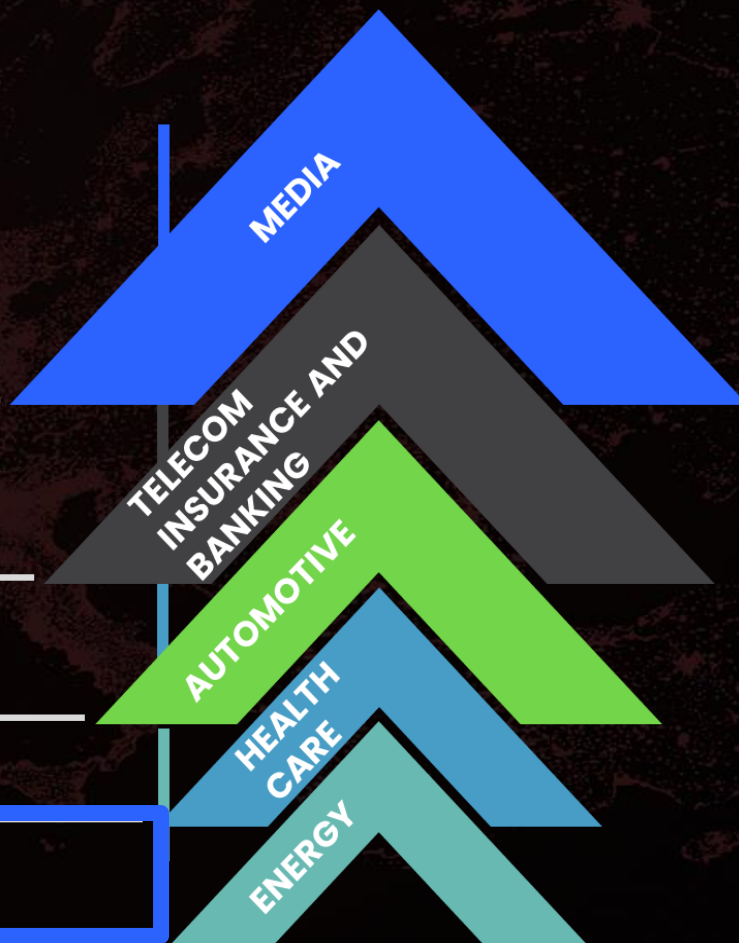
Optimization mainly in supply chain management and customer-facing ventures such as websites .

04

Just beginning, with a few examples of front-office and R&D focused initiatives

05

Extremely limited use of digital, primarily in internal operations.



1 .

LACK OF  
HARMONISATION IN DATA  
SHARING PROCESSES

2 .

LACK OF REGULATORY  
INCENTIVES

3 .

INFRASTRUCTURE IS  
AGEING

4 .

DATA PRIVACY  
CONCERNS



# 1. Enhance data sharing and access to data

## Smart meter data

- Consumption data
- Production data
- Master data

## Smart grid data

Technical data  
collected by sensors  
in networks

## Smart market data

Diverse sources e.g.  
commercial energy  
contracts, smart  
appliances, smart  
appliances etc.

# 1. Enhance data sharing and access to data

## For smart meter/market data:

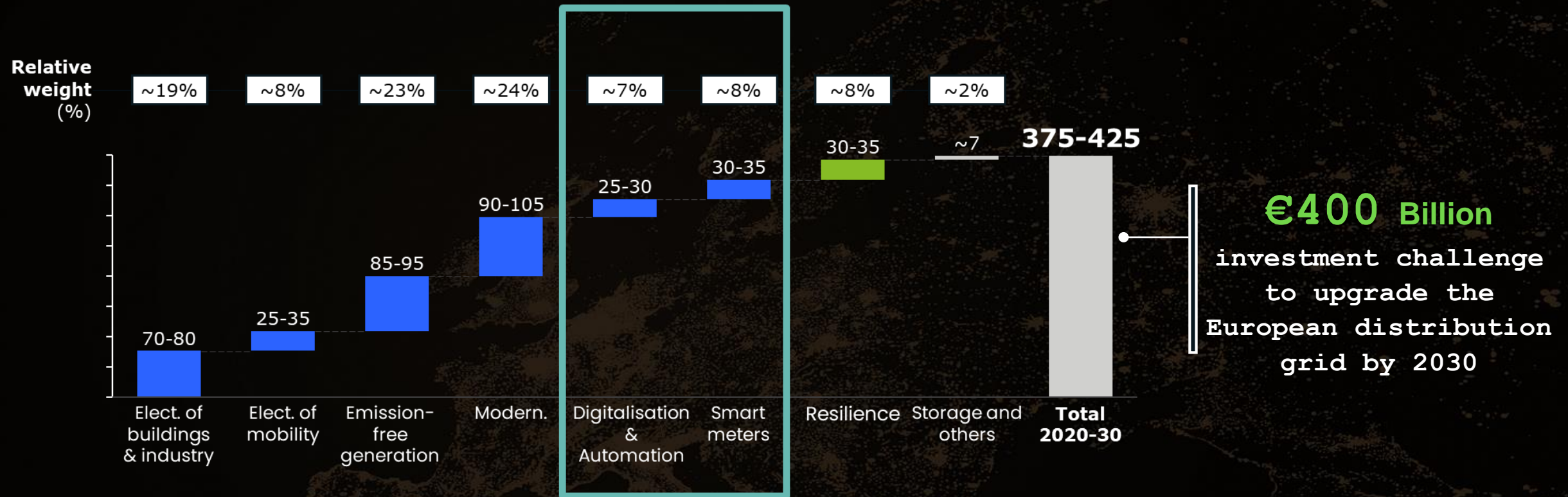
- No 'one size fits all' model applicable in all European countries for smart meter and market data management.
- However, common principles must be set at EU level: **neutrality, non-discrimination, transparency, and cost-efficiency, high quality, security and privacy.**

## For smart grid data:

- Regulators should enhance smart grid data exchange between system operators and market players **in all relevant timeframes.**
- Mutual processes, data management models, data formats, and communication protocols for data exchange should be agreed upon at the EU level when applicable and efficient. If EU-level standardization is not possible, Member States should strive for standardization at the national level as a minimum



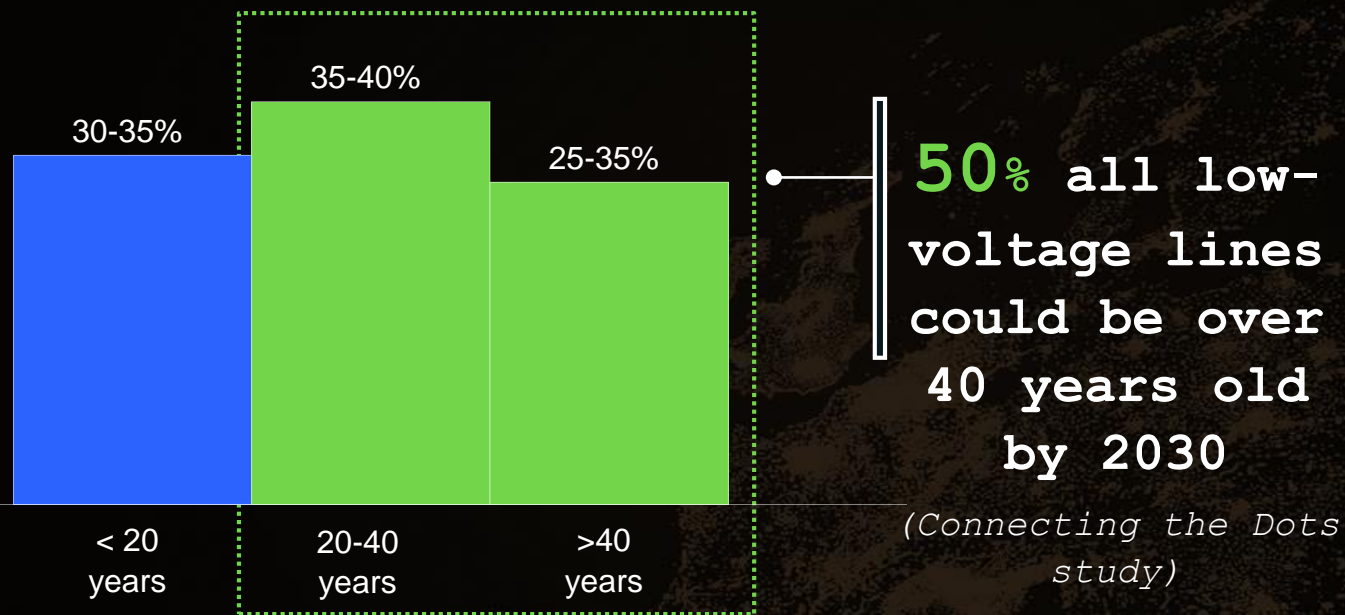
## 2. More positive incentives to invest in smart technologies



### HOW?

- Adjust regulatory frameworks and tariffs to incentivise the spending in **digital technologies** to the same extent as investments in physical infrastructure.
- Improve the **eligibility to EU funds for projects related to innovation and**
- Promote and ease in particular smart grids deployment in EU in particular **smart meters** e.g. Market Design Rules

### 3. Upgrade the infrastructure to make it fit for digital solutions



Much of the energy infrastructure in Europe is old and outdated, which can make it difficult to **integrate new digital technologies**

#### How ?

Adjust the regulatory frameworks to enhance a massive and anticipatory investment in upgrades and digitalisation of the European infrastructure



Eurelectric

#BalanceOfPower  
#PowerSummit23



power  
summit  
2023 Balance  
of Power

20-21 June 2023  
Brussels





# Join our network of European electric utilities & global Business Members

## Our 34 Full Members include

National Electricity Associations that represent major power utilities in Europe, including:



## Our 50 Business Members include



Your logo  
here!



[digitopia.eurelectric.org](https://digitopia.eurelectric.org)

Exploring business opportunities of the data-driven power sector

Since 2019

**Main Partner:** Microsoft

~ 30 Members

**Topics:** Action plan on digitalising the energy sector



[247.eurelectric.org](https://247.eurelectric.org)

**Accelerating power system decarbonisation by moving towards 24/7 matching in corporate CFE sourcing**

Since 2021

**Main Partner:** RE-Source

~ 200 Members

**Topics:** flexibility, data access, certification, standard contracts, internationalisation



[evision.eurelectric.org](https://evision.eurelectric.org)

**Accelerating the uptake of e-mobility across Europe**

Since 2021

**Main Partner:** EY

~ 50 Members

**Topics:** electrifying heavy-duty vehicles and corporate fleets, data sharing for EV charging



[powertobuildings.eurelectric.org](https://powertobuildings.eurelectric.org)

**Electrifying and connecting buildings across Europe**

Since 2022

**Main Partner:** Schneider Electric

~ 50 Members

**Topics:** flexibility, energy efficiency and sufficiency, value and supply chains

**Benefit from our four cross-sectoral business hubs!**