

# Smart Energy Management



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

# Smart Energy Management: a game changer for all

## Consumers

Help consumers increase control over their energy use and bills through new digital tools and services



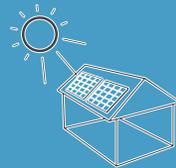
## System Operators

Increase the efficiency of the grid management (remote control, automation, metering ...)



## Market players

Increase their visibility and access to grid data to better optimize their business opportunities



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

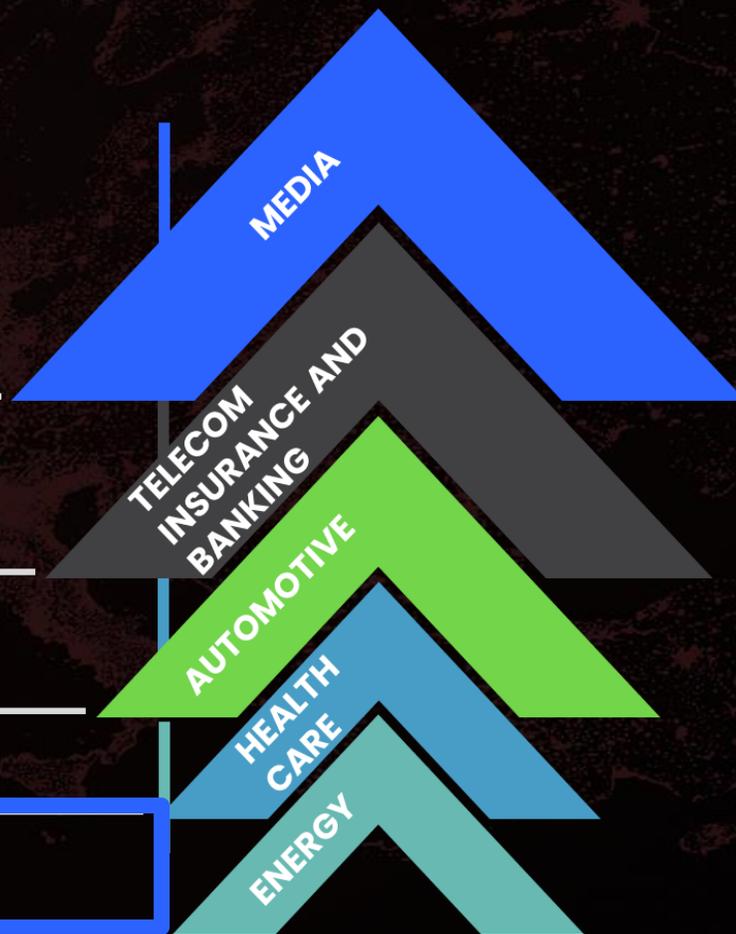
Optimization mainly in supply chain management and customer-facing ventures such as websites .

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

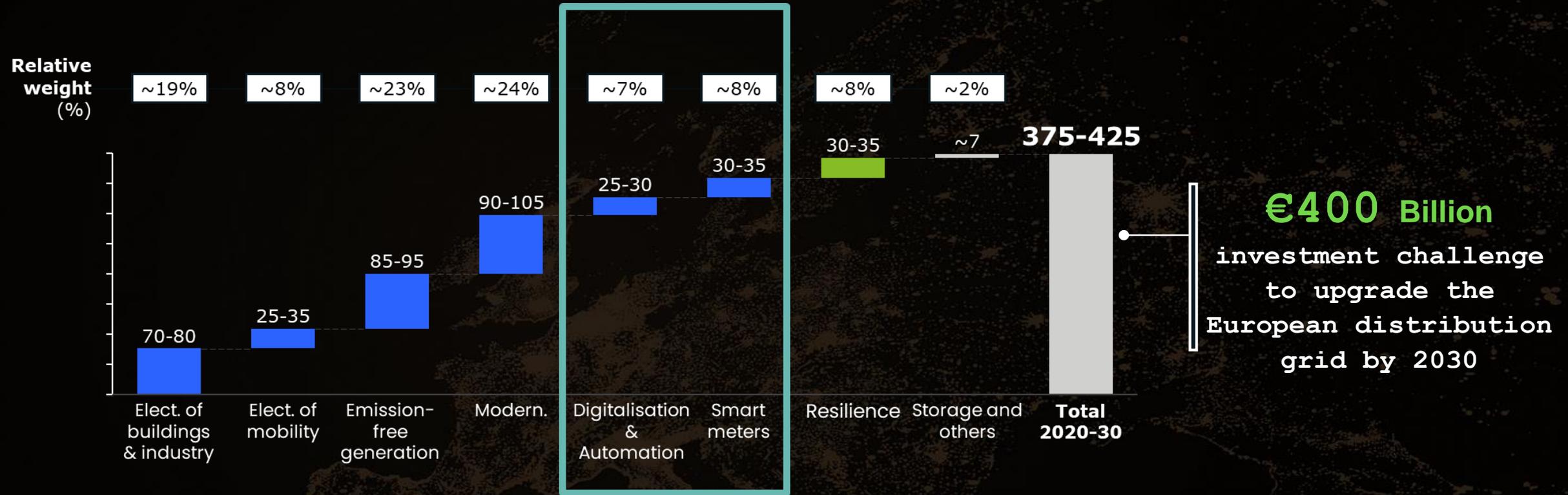
## For smart meter/market data:

- 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

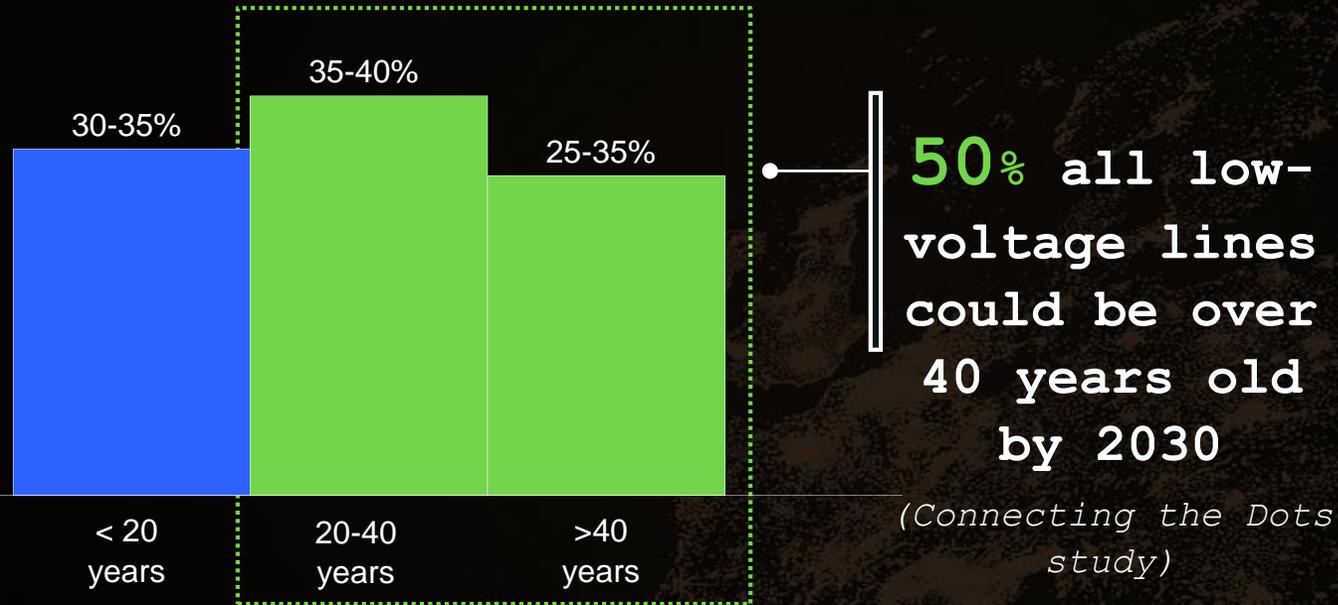
## 2. More positive incentives to invest in smart technologies



### 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

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