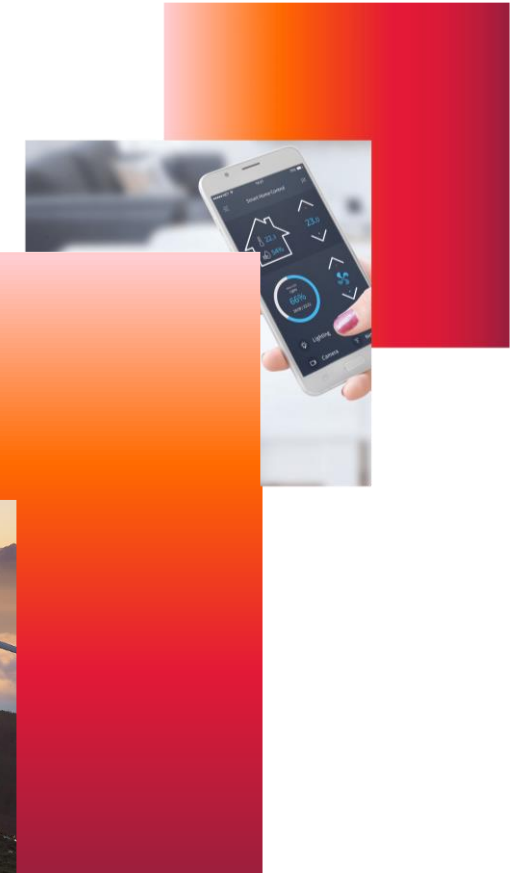


Westminster Energy Forum

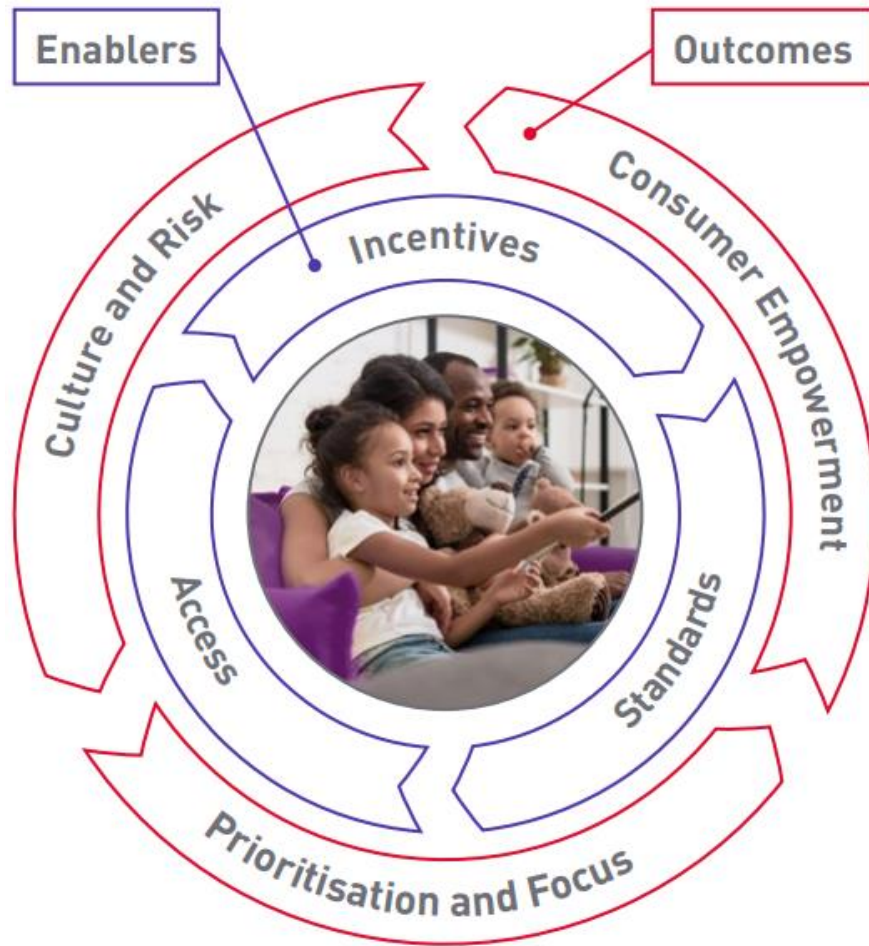
Optimising the UK's demand side
and deploying strategic customer
solutions

Rich Hampshire

5 March 2024



Delivering a fair and just energy transition



Outcomes

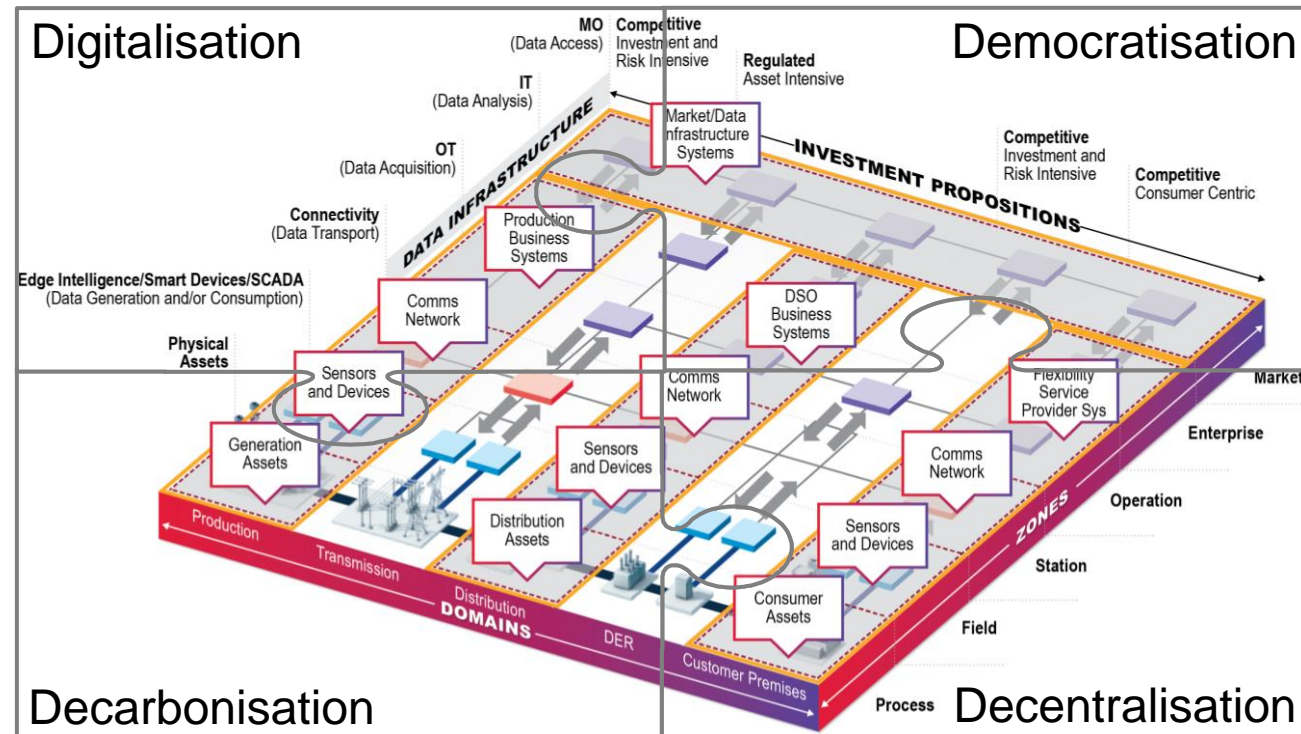
- A **shared system of prioritisation** [*primacy rules*]
- A **cultural shift**, especially in **attitudes to risk**, and
- **Ease of participation** for consumers
 - or their intelligent energy technologies

And what's needed to deliver these outcomes?

- Gaps in **system intelligence** need to be addressed
- **Data interoperability** standards, and
- **Incentives to encourage investment** by some energy system actors so that value can be created by others.

Context of the Energy Transition

- The dynamics of the energy system are changing – fundamentally
- Implications for processes and systems across the whole system



Source: Based on Smart Grid Architecture Model (SGAM)

Pweru Cymru yn adnewyddol | Powering Wales Renewably

- Net-zero power system by 2035
- The Welsh Government has ambitious decarbonisation plans
 - Identify suitable locations for economic and timely connections of renewable generation
 - Identify and evaluate potential use of flexibility
- Deliver a digital twin of the transmission and distribution networks across Wales
- Builds on investments in the ESO's Virtual Energy System and SPEN & NGED's investments in intelligent distribution network models



Demand Response



Systems & Tools



Collaboration



System Operation



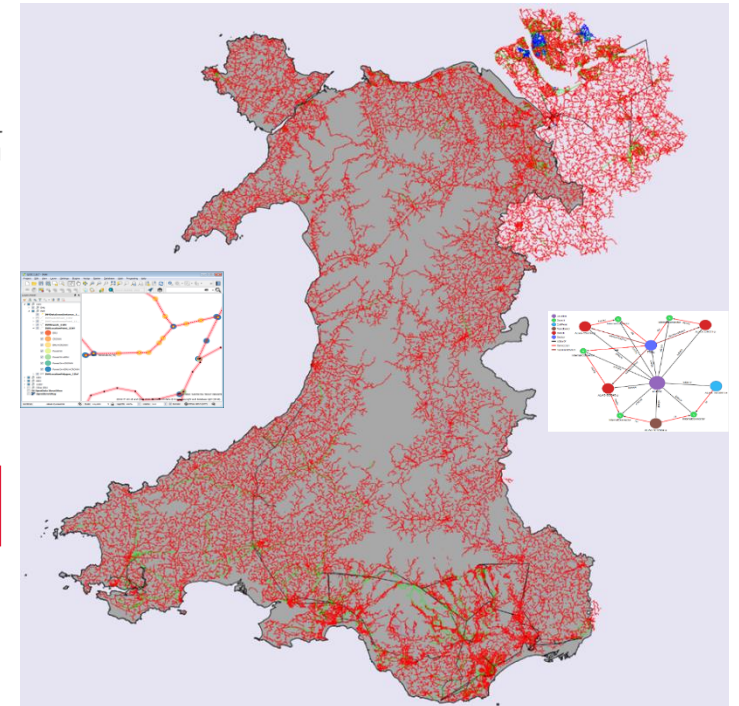
Llywodraeth Cymru
Welsh Government

CENIN

CGI

nationalgrid

ESO Virtual Energy System
Powered by ESO



SP Energy
Networks

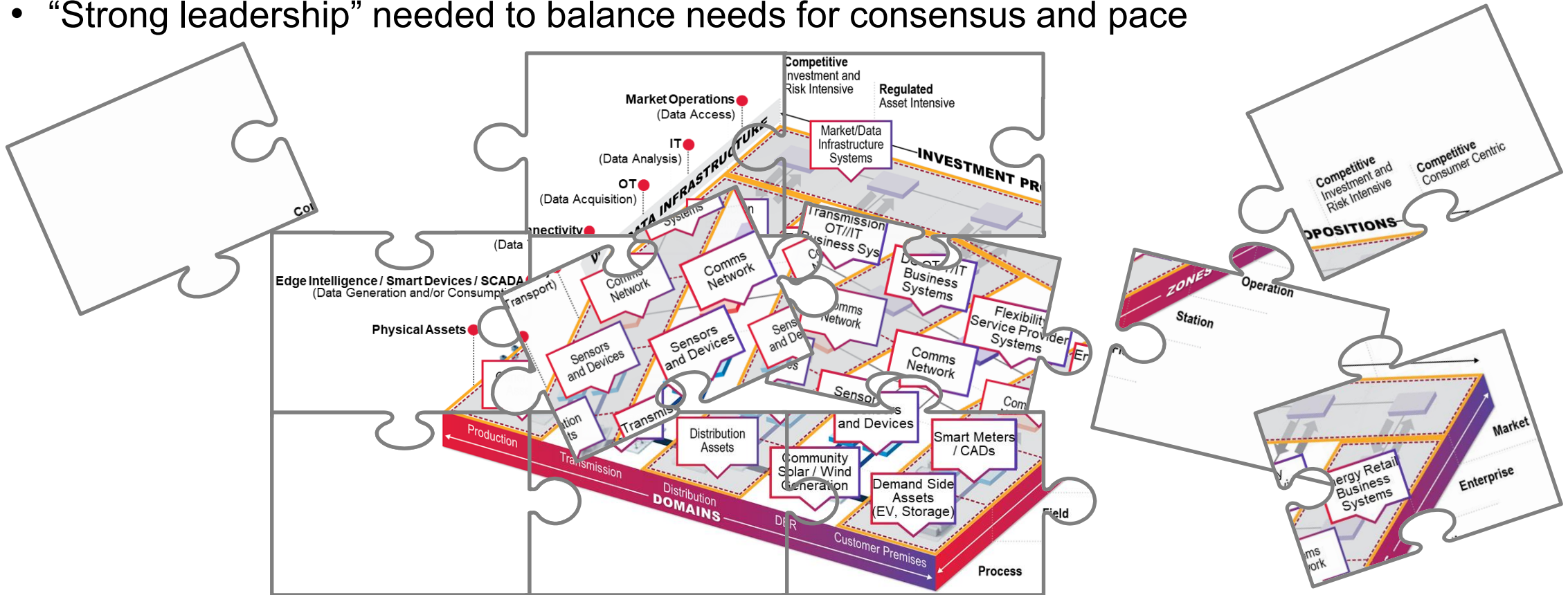
nationalgrid

Electricity
Distribution

Source: [Powering Wales Renewably \(ENA Innovation Portal\)](#)

Closing reflections

- “an organic solution might take 5-10 years to develop”
- “Strong leadership” needed to balance needs for consensus and pace



CGI at a glance

Founded in 1976
48 years of excellence

CA\$14.3 bn revenue

90,500 consultants

**400 locations
in 40 countries**

**5,500 clients
benefiting from
end-to-end services**





Contact us to continue the conversation

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Insights you can act on

About CGI

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We bring decades of experience of market change and innovation in the global utilities sector.

cgi.com/uk/utilities

