



**Former Chair of the Energy Data
Taskforce
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**PRICE
CAP**



♥
**BIG IS
BEAUTIFUL**

“Designed and built by engineers, barstardised by economists and marketers, the power industry continues to deliver one of the most successful consumer confusion programmes of all time” Ari Sargent



**BIG
BANG
DATA**

TRANSPORTATION



**BLESSED
ARE
THE
CHEESE
MAKERS**

Location!
Location!
Location!



From the 400 to the 50 million

Challenge: System Collapse

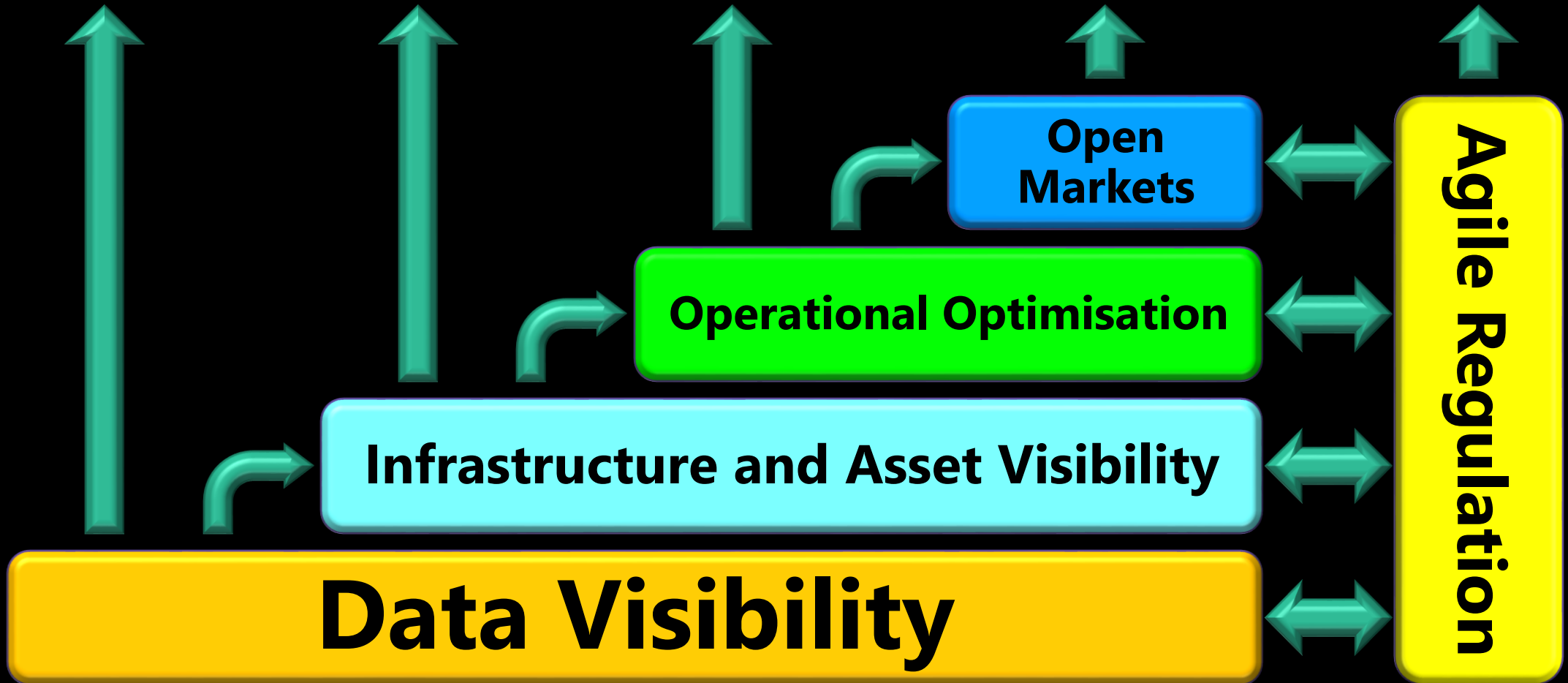
- **Quantity:** quantity and intensity of actions throughout the system
- **Diversity:** diversity of assets & actions across the system
- **Interaction:** cumulative impacts of each action
- **Different:** different nature of products and services
- **Devolution:** acting with new partners and actors and requiring a supportive, complementary environment

Opportunity: System Optimization

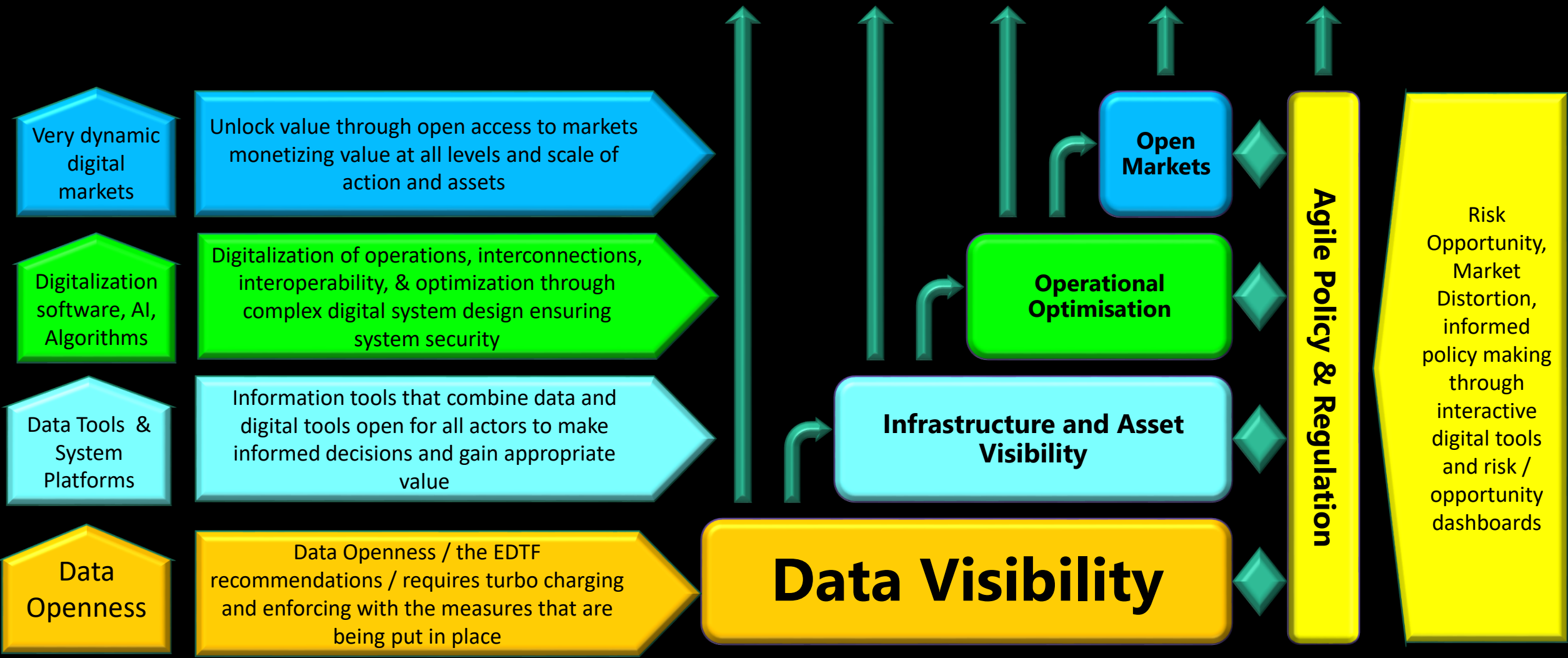
- **Optimization not Consumption:** make the system do more with less
- **Value Gained:** value released and efficiencies gained
- **Customer Dividend:** their actions and assets rewarded
- **Storage unlocked:** Flexibility able to access markets
- **Stability:** delivering visibility to the system
- **Better investment:** investment made in the right assets solving the right problems



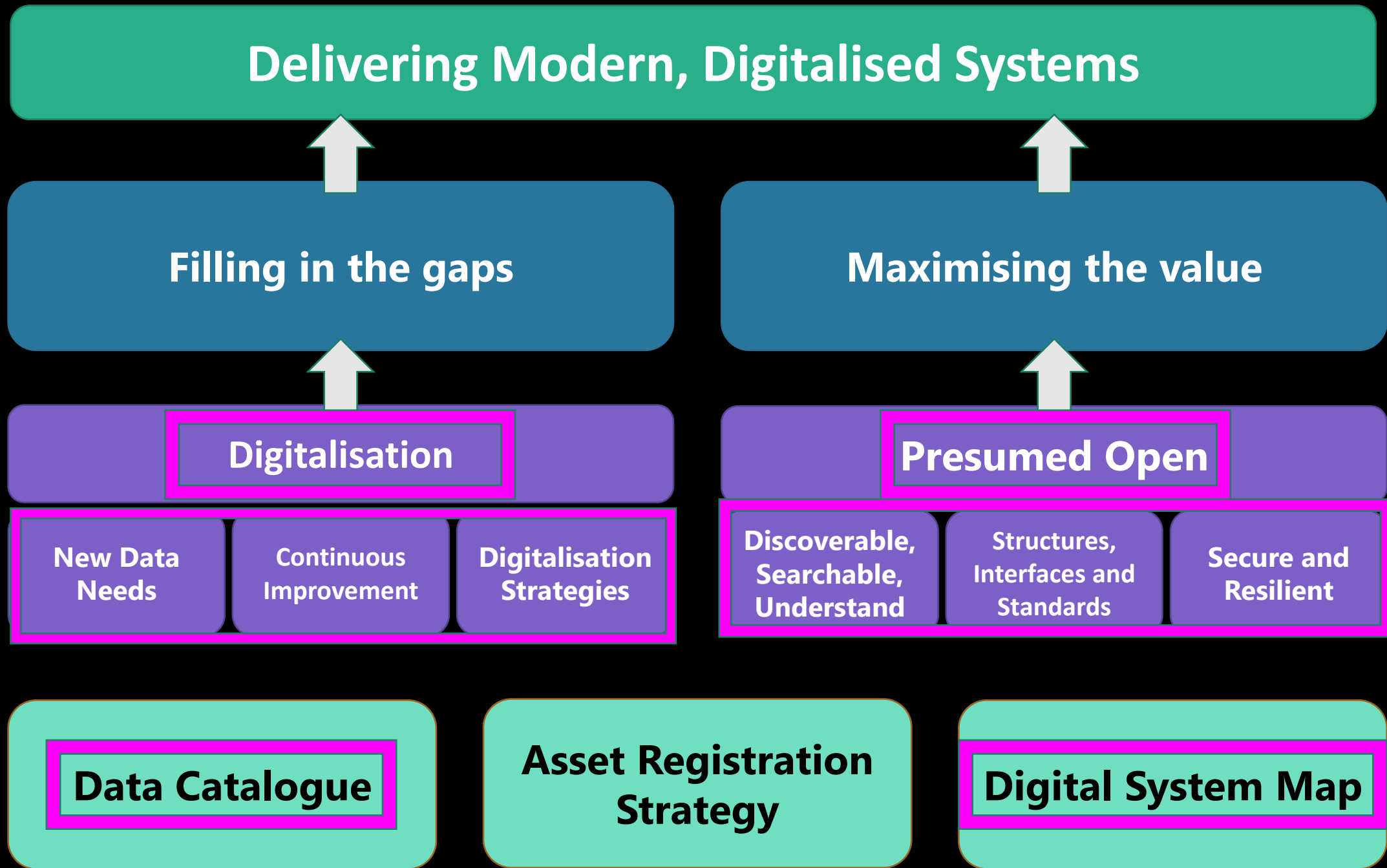
The Vision for Modern, Digitalised Infrastructure



The Vision for Modern, Digitalised Infrastructure



Progress





The Real
Prize is not
Data but
Digitalisation

The Journey Has
Only Just Started

The Next Stage: the Digital Essentials

Opportunities & Necessities

- **System Stability** – essential to manage quantity and diversity of assets and actions
- **Digital infrastructure** - connectivity, monitoring, data architecture, interoperability
- **Asset identity and connectivity** –unique identifiers automated connectivity for assets
- **System interoperability software** – democratising system operation and enabling multi-level, coordinated optimisation
- **Digitalised Energy Assets** – Smart products exchange data for value - auto discovery, self-registration and self-healing assets
- **Cloud energy storage** –the ‘Netflix model’
- **Transformative Business Models** - Delivering new business models, unlocking innovation and changing business practises



Risks & Mitigation

- **Governance**
 - Data security
 - Interoperability risks
 - Algorithm design and outcomes
 - Consumer data
 - Consumer detriment
 - Value transparency
 - Monopoly distortions
 - Access Rights
- **Standards and Rules**
 - Minimum but crucial rules of the game
 - Standards for interoperability
 - Visibility and Access Platforms

