

An aerial view of a city at sunset, with a digital network overlay of nodes and lines. The sky is orange and red, and the city lights are visible. The Siemens logo is in the top right corner.

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Establishing a Digitally Integrated Modern Energy System

ENA Data Working Group, 26th June 2020
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Programme Approach



Workstream 1: Sector Engagement

User Persona Mapping
Prioritised User
Functionality
Operational Aspirations &
Challenges

Workstream 2: Solution Blueprint

Data Architecture
Platform Roadmap
Alpha Test Plan

Workstream 3: Data Quality

Common Data Licenses
Data Transparency
Profiling
Data Obfuscation &
Protection Techniques

Workstream 4: Business Impact

Exploitation Plan
Indicative Draft Business
Model
Alpha/ Beta Partner
Ecosystem

Commercial Framework Considerations



Open front-end, direct access,
subscription, transactional cost

Service Delivery Considerations



Cloud deployment, managed
service, SLA's, access governance

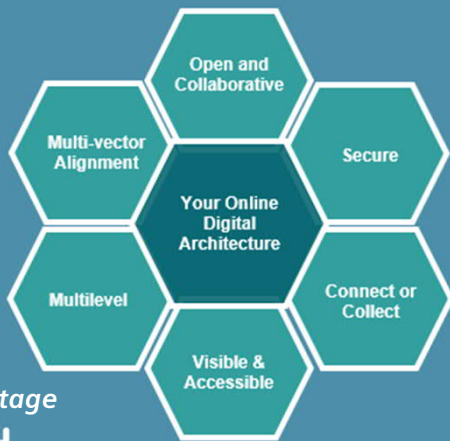
Success Requirements



- 1) Access to data
- 2) Reach & contribution
- 3) Cyber security and integration challenges

Our Journey: to develop a user centered online digital architecture platform started with a simple idea

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Bid stage



Our aim

To have an open and accessible data for all to drive insights, innovation and impact in support of the Net Zero challenge

YESTERDAY

Our approach

A design thinking approach was used to fully understand user's needs and requirements which then could be translated into the platform

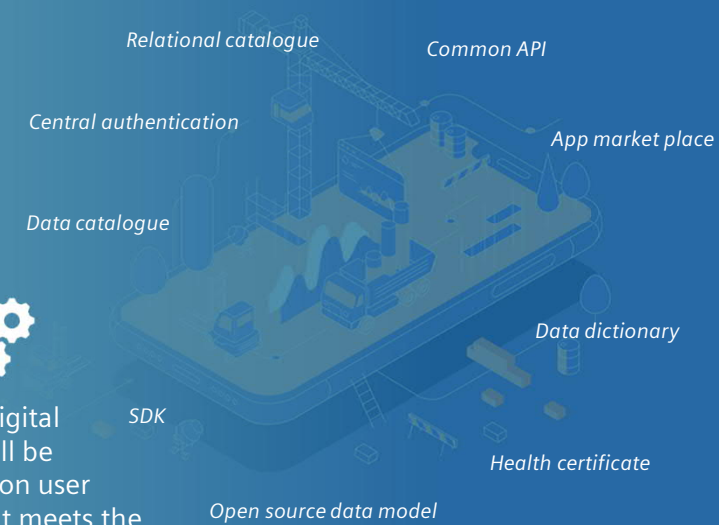
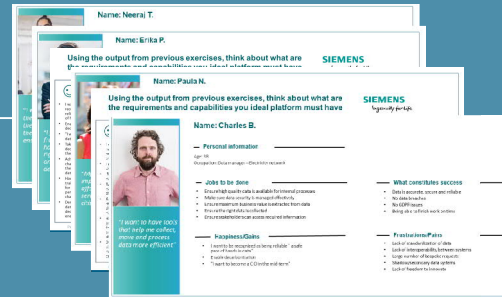
TODAY



Our next steps

Tomorrow, the Online Digital Architecture platform will be developed purely based on user requirements to ensure it meets the needs and wishes of the community

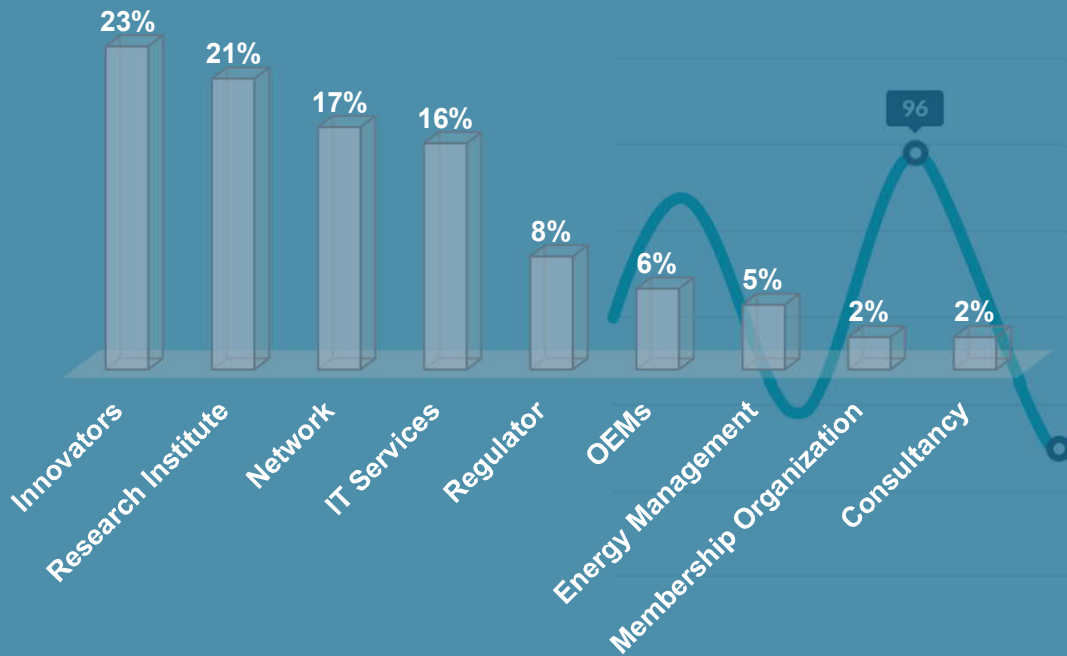
TOMORROW




Diversity was essential for identifying such relevant insights for the Online Digital Architecture Platform



Distribution of workshop participants



 Top system requirements

 Top data requirements

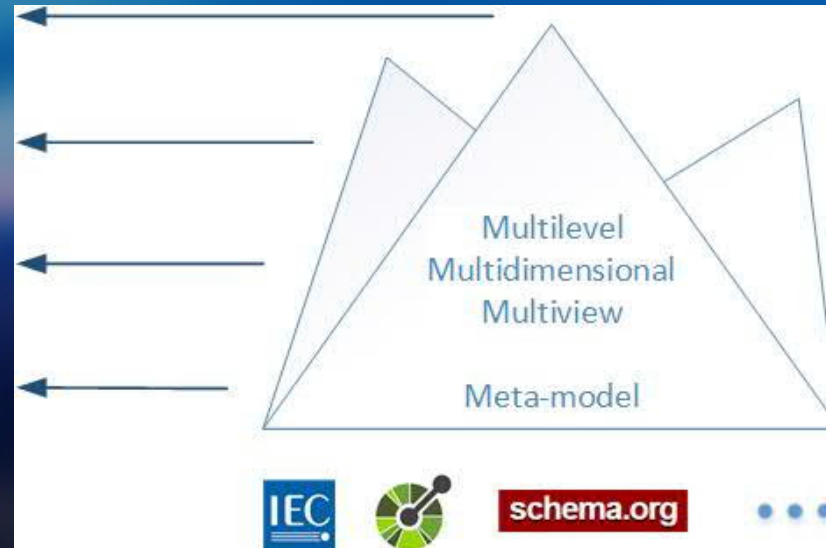


Network: Electricity 67%, Gas Distribution 27%, Transmission 7%

Source: animation by Dribbble.com

META-Model – common data, multiple perspectives

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The Challenge

Using common data to enable a plethora of user-orientated views

The Approach

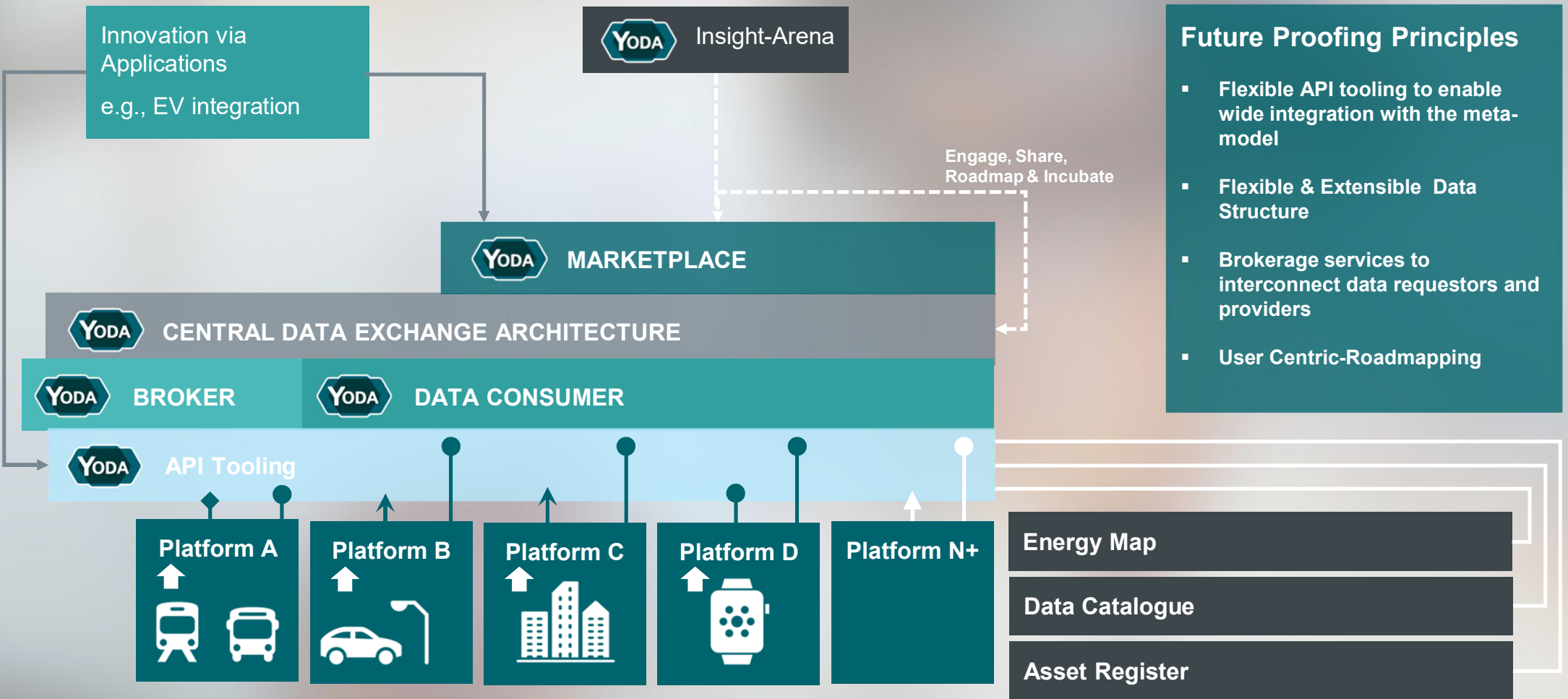
Utilising meta-models to create flexible and extensible user-defined interpretations

The Next Steps

Testing the principles with utility data to align with workshopped user-personas

Your Online Digital Architecture

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How networks can continue to play a part



Advance Requirements

As data providers and data users, what do networks **require** from this platform and what **challenges** would need to be overcome to deliver value for the sector

DFES, Data & Looking Forward

How could the common data platform support the management of underlying scenario data used in DFES?

Supporting YODA

We would welcome the support and collaboration of network(s) as we map and model existing data and progress into the Alpha stages



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Thank You, Any Questions?

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