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ENR201

OSDU: Reinventing the energy data platform

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OSDU on AWS

AWS

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Agenda

The need for an energy data platform

Current status and evolution of the OSDU energy data platform

Looking ahead to put data at the center of the energy transition



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It started with a challenge in the subsurface



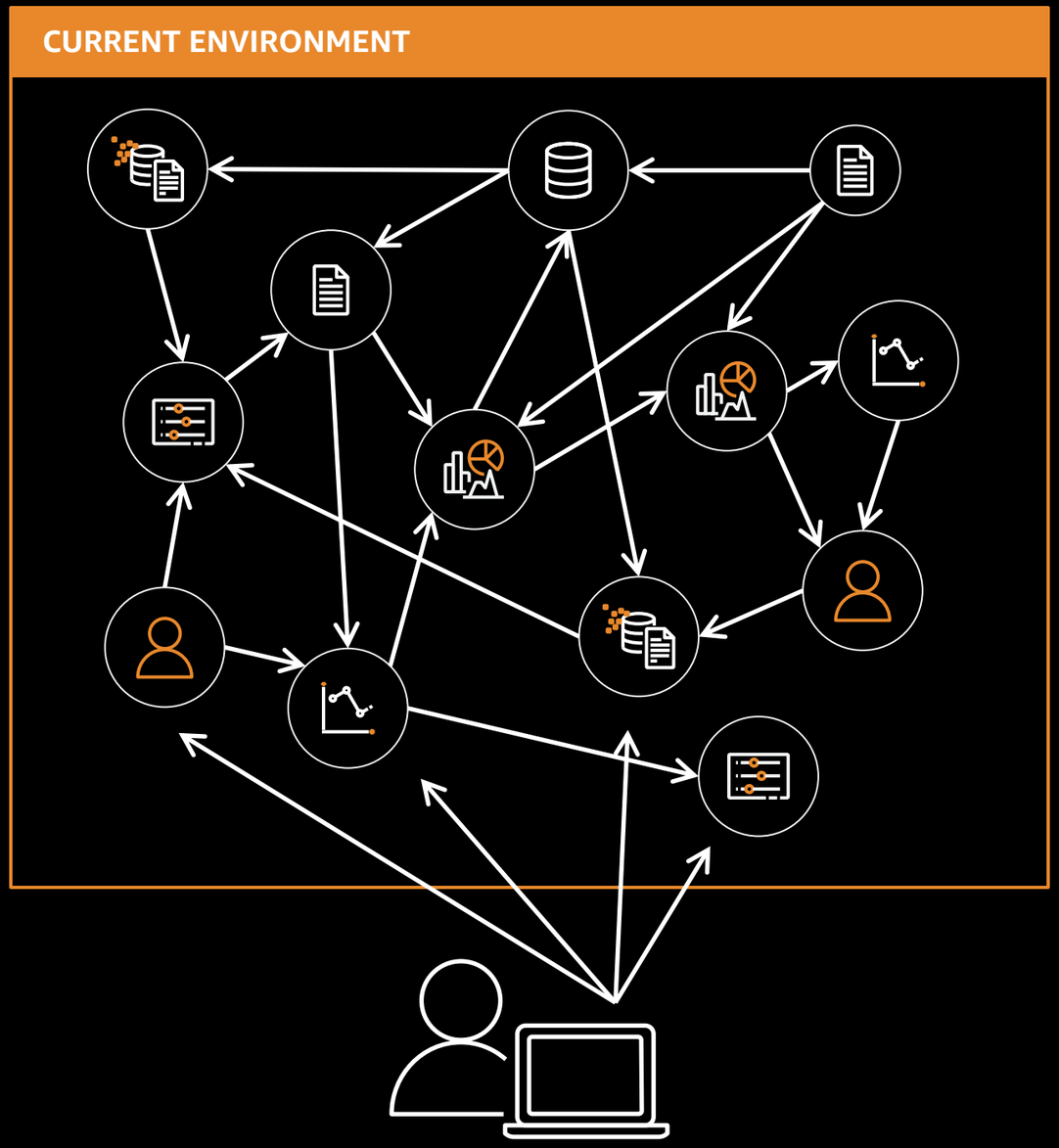
THE OPEN GROUP

OSDU™

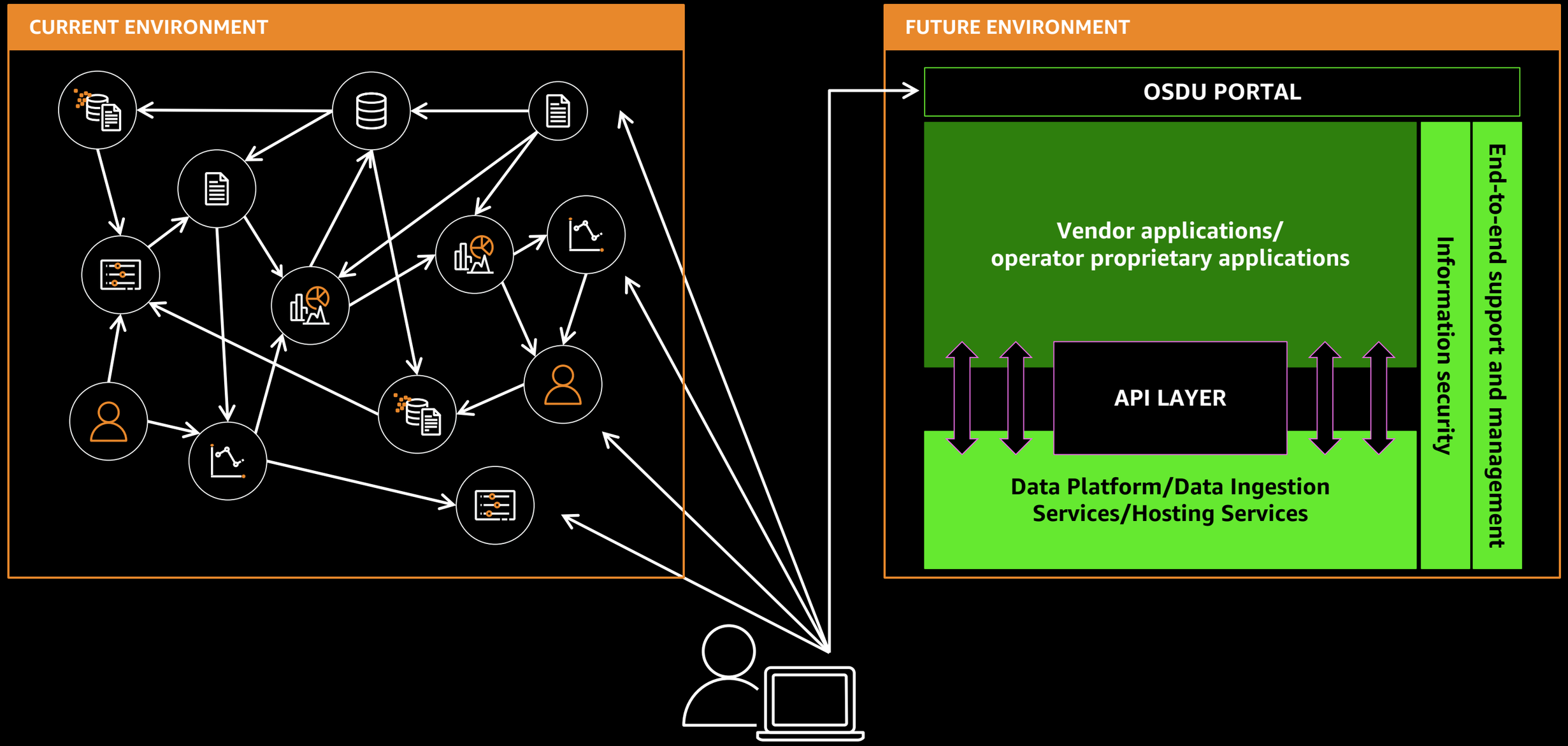
FORUM



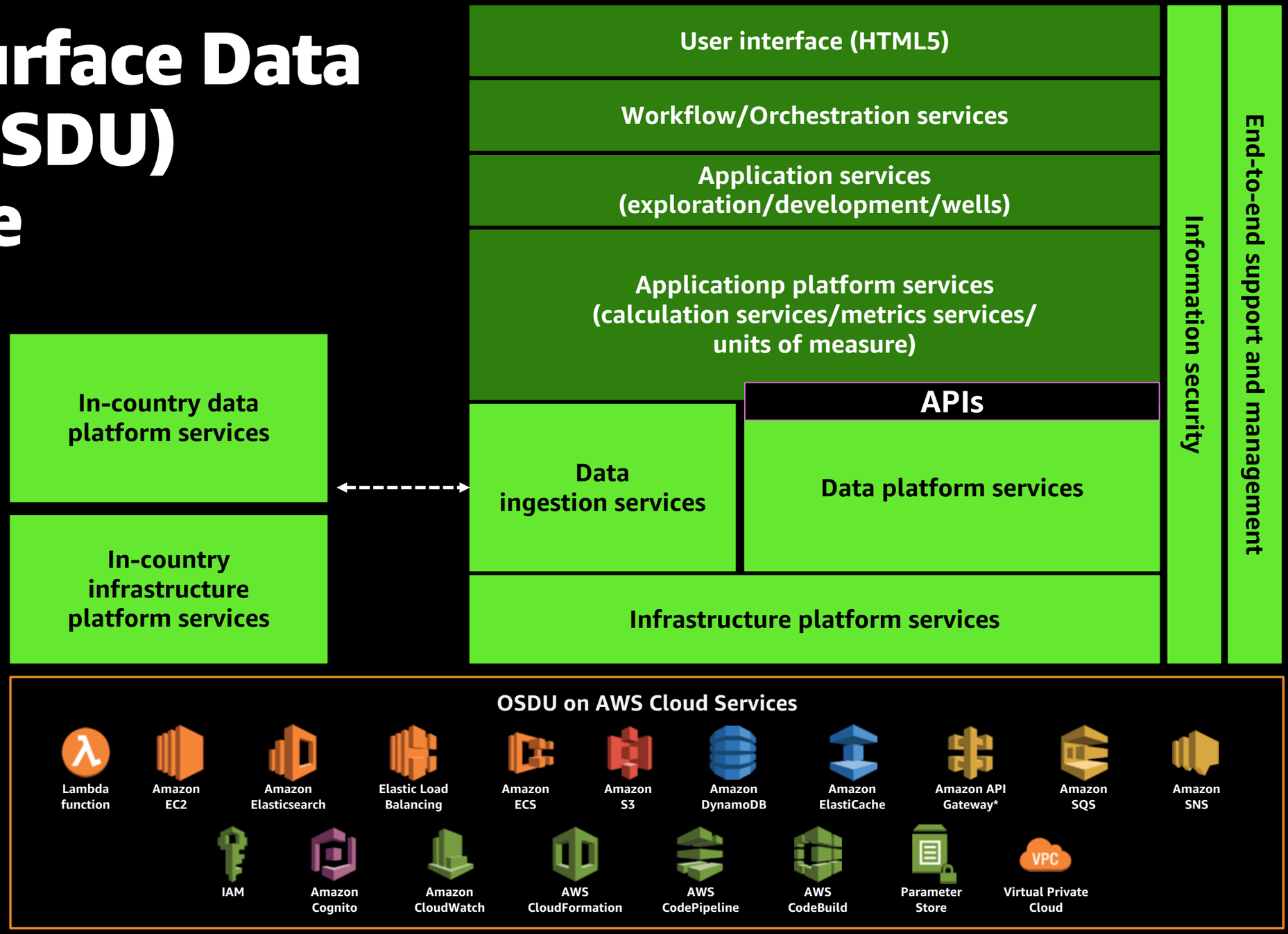
Current challenges with subsurface data



Move the data to the center



Open Subsurface Data Universe (OSDU) forum scope



OSDU energy data platform

Customer differentiation

Empowering data-driven development



Microservices
Flexible orchestration of workflows



Support
Legacy and cloud-native apps supported



Simplify
Kubernetes driven



Visualize
Enablement of visualizations from VR and beyond

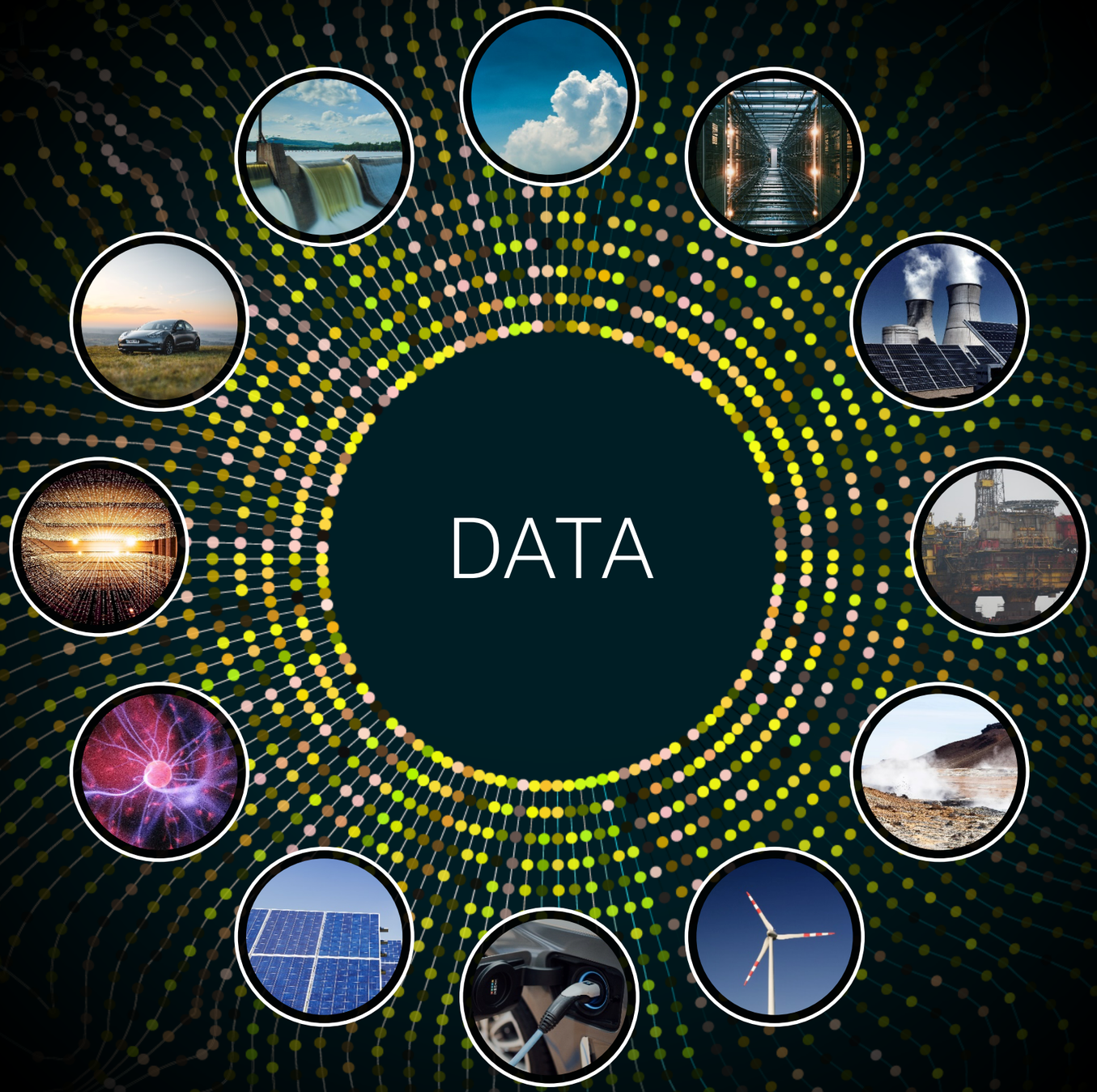


Data-driven
Enabling analytical approaches for the subsurface



Integration
Physics and data-driven applications

Using data to drive business impact



Current Status

Releases – R1 (Dec 2019), R2 (May 2020), R3 Production Release Q1 2021

Open Source via OSDU Forum

Support of cloud-native and hybrid architectures

Application development by ISV partners

Partner solutions available via OSDU Marketplaces

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OPERATORS MEMBERS

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Energy data platform on AWS

Culture of innovation



Flexibility



Reliability



Security



Energy (Data) Platform = OSDU™ THE OPEN GROUP FORUM

Data will fuel the transition from hydrocarbons to electrons



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Support for new energy sources 2021–2022

Imaging and interpretation	Field development plan	Artificial intelligence	Digital twin	B2B/B2C	Trading – power

API (standard interface for accessing the data)

Open Source

OSDU Data Platform: single data platform (system of record/insights)

REALTIME

OSDU R3 covers –
- Exploration
- Development
- Wells

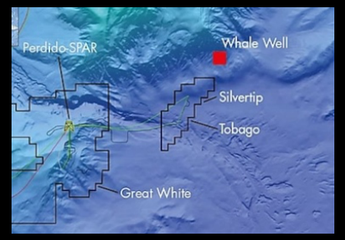
Released Q1–2021 (production)

OSDU R3+ covers –
- Upstream production
- Drilling

Planned for mid–2021 (production)

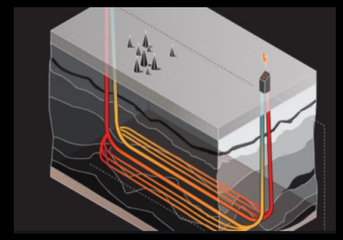
OSDU R3++ covers –
- Solar
- Windfarm
- Hydrogen
- Geothermal, CCUS

Planned for 2021/2022 (production)







OSDU: Open Energy Data Platform

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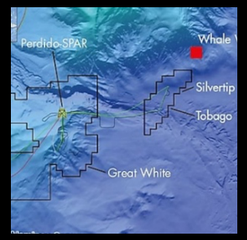
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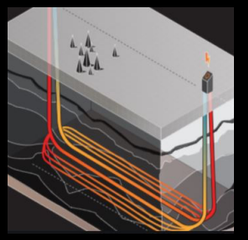
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Engineering Data Platform (EDP):
- Structures
- Piping and instrumentation
- Electrical; etc.

OSDU: Open Energy Data Platform

The legacy of the OSDU energy data platform

API-driven to fuel innovation

Open source faster implementation and deployment of new capabilities

OSDU forum for democratized data standards

New energy sources emerging in integrated data platform



Thank you!



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