

16 NOVEMBER 2022

Unlocking lasting value from your asset

A lifecycle approach to digital twin strategy for capital projects

Rob Kennedy, Global Head of Digital Twin, Wood

AVEVA

About Wood

We are a global leader in consulting and engineering across energy and materials markets.



160+
year history

~35k
people

60
countries

c\$5.5bn
revenue

wood.

We unlock solutions to critical challenges through our consulting, projects and operations expertise.

Areas of expertise:

Energy Security



Energy Transition



Decarbonisation

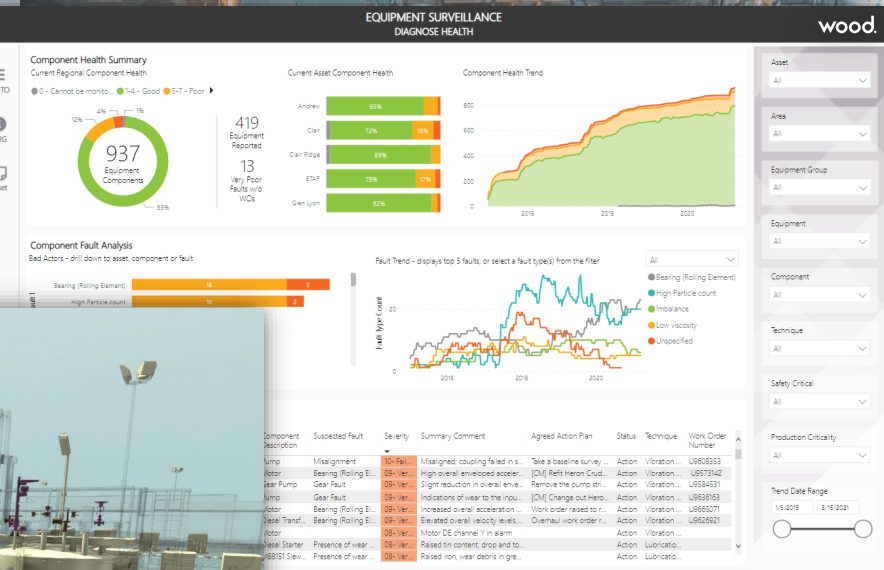
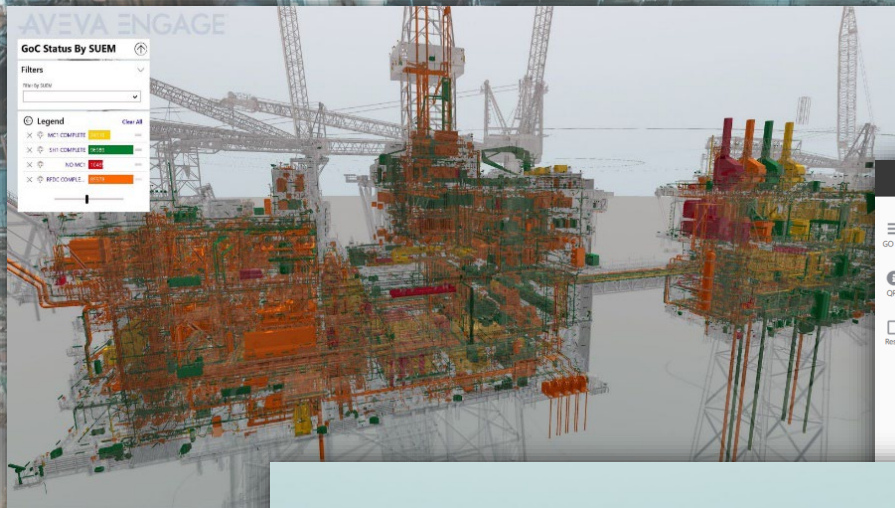



Digital Delivery



Circular Economy







**How do we create
a digital twin
strategy that
captures the needs
of operations
teams?**

**... and how
do we then
build an
operating
digital twin
alongside
the physical
asset?**

Transforming lifecycle economics

Applying 'right-to-left thinking' to determine the strategic capital investments required to transform both project and operating performance



Plan >



Design >



Build >



Operate/Optimise >



Repurpose/
Decommission



CAPEX

OPEX

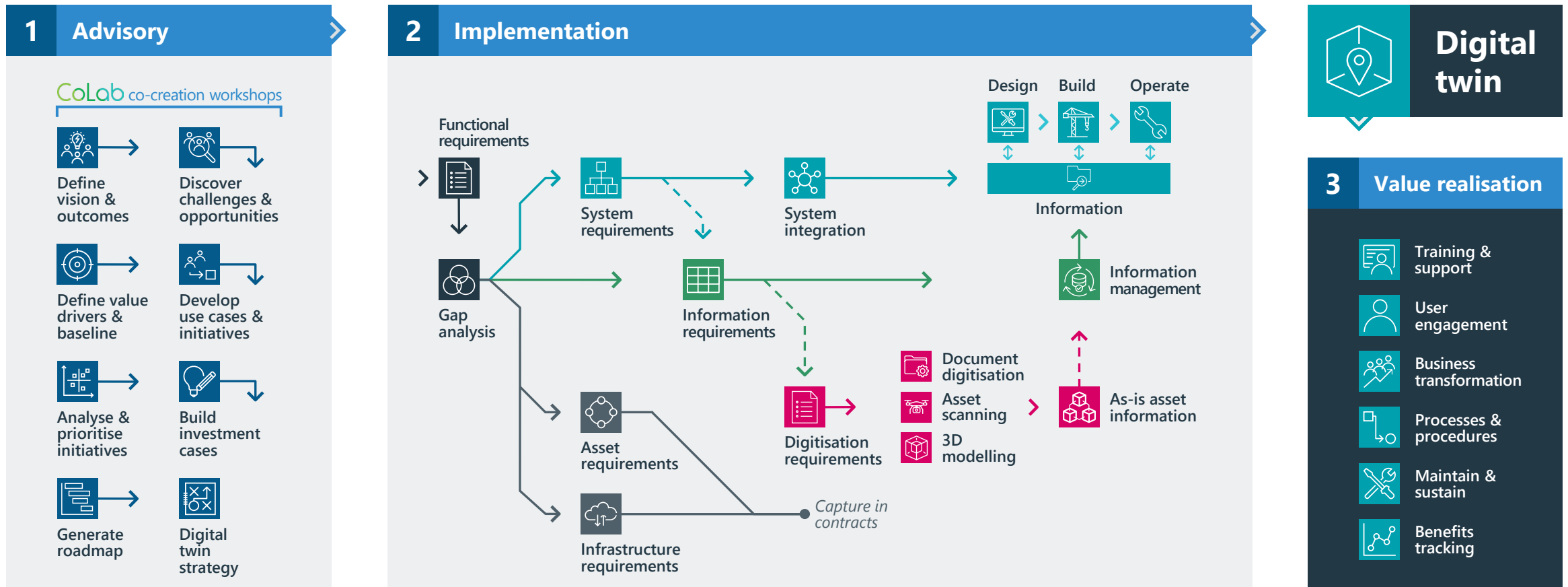
TOTEX

Right-to-left thinking



Approach for capital projects

Identifying the needs of operating teams to build an operating digital twin alongside the physical asset



Crafting the lifecycle strategy

Determining the right investments to unlock value across the entire lifecycle



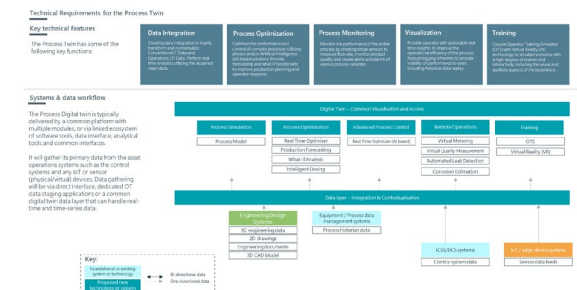
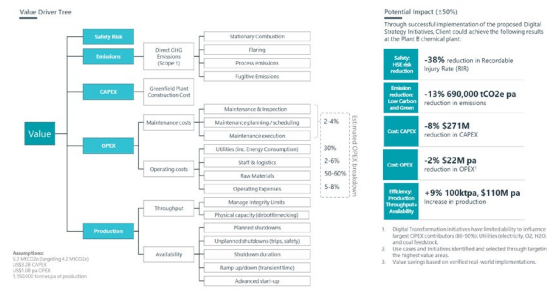
Vision, outcomes & objectives



Value drivers & baseline



Use cases & initiatives



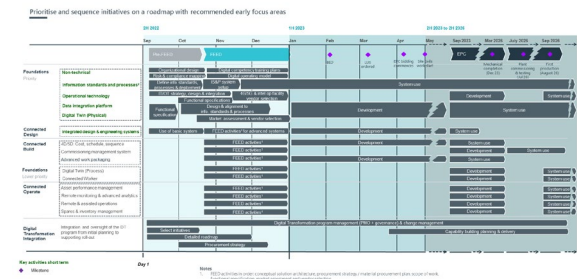
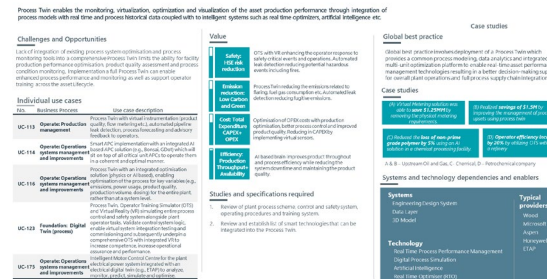
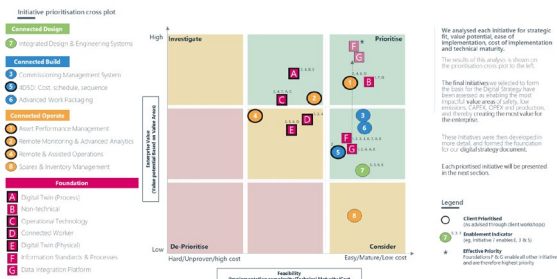
Analyse & prioritise



Investment case

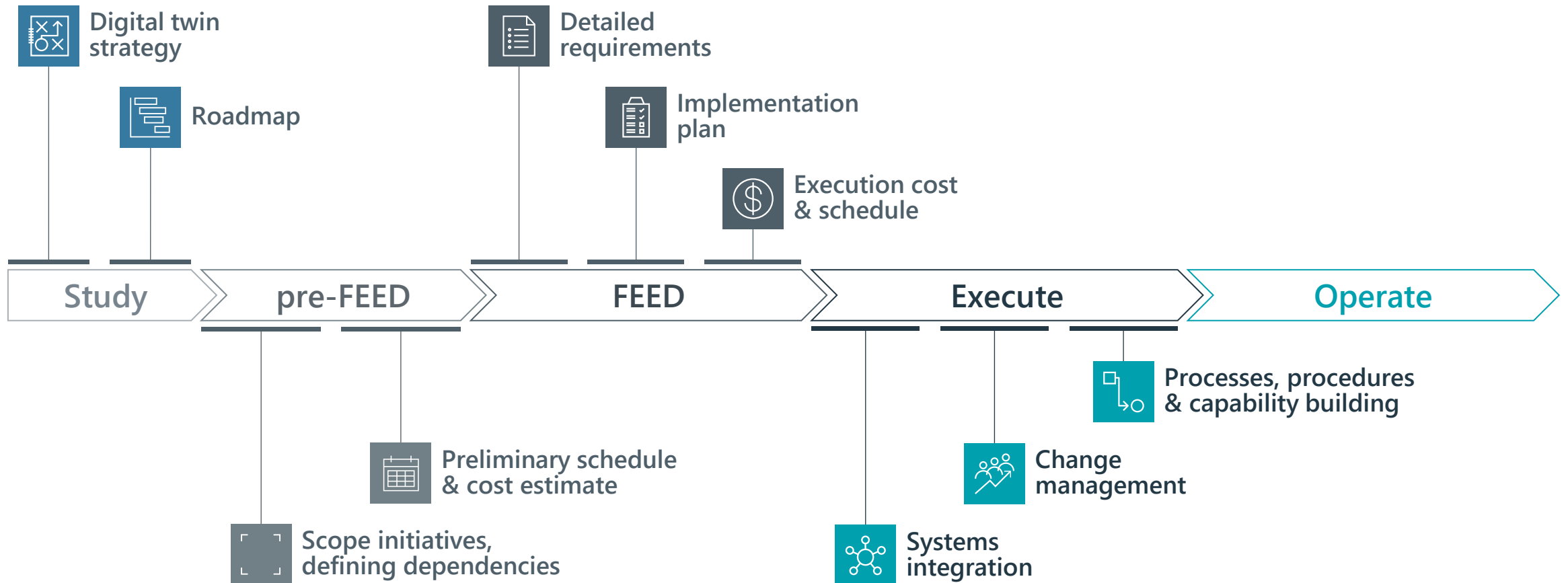


Roadmap



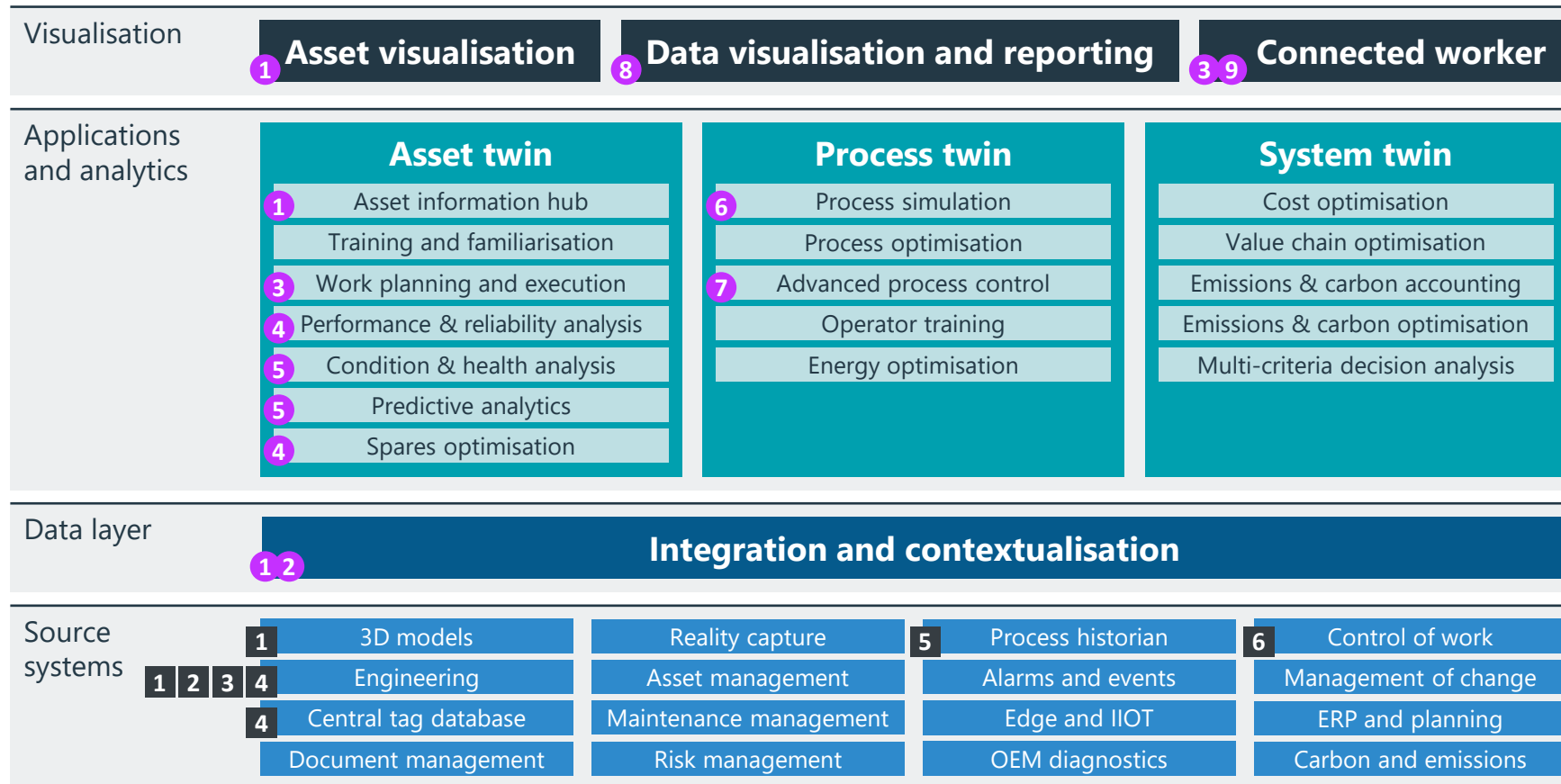
Building the digital twin

Roadmap to digital twin implementation through the CAPEX phase



A best-in-class digital twin ecosystem

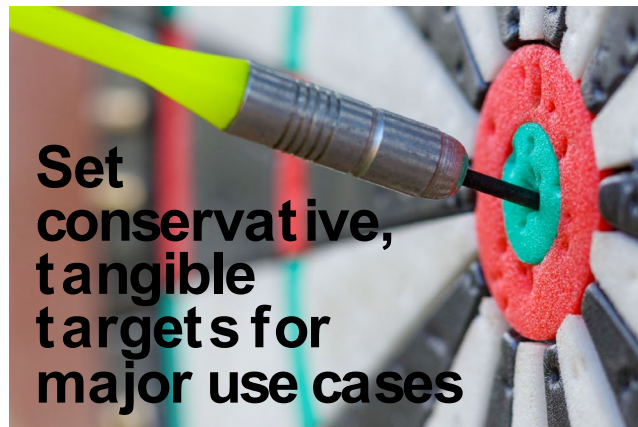
Conceptual architecture for assets in the energy and materials sectors



- 1 AVEVA Asset Information Management
- 2 AVEVA Gateways
- 3 AVEVA Work Tasks
- 4 AVEVA Asset Strategy Optimization
- 5 AVEVA Predictive Analytics
- 6 AVEVA Process Simulation
- 7 AVEVA Advanced Process Control
- 8 AVEVA Insight
- 9 AVEVA Mobile Operator

- 1 AVEVA E3D Design
- 2 AVEVA Electrical and Instrumentation
- 3 AVEVA P&ID
- 4 AVEVA Engineering
- 5 AVEVA PI System
- 6 AVEVA Operational Safety Management

Conclusion





Rob Kennedy

Global Head of Digital Twin @ Wood

- rob.kennedy@woodplc.com
- [linkedin.com/in/rob000](https://www.linkedin.com/in/rob000)



Questions?

Please wait for the microphone.
State your name and company.



Please remember to...


Navigate to this session in the mobile app to complete the survey.



Thank you!

This presentation may include predictions, estimates, intentions, beliefs and other statements that are or may be construed as being forward-looking. While these forward-looking statements represent our current judgment on what the future holds, they are subject to risks and uncertainties that could result in actual outcomes differing materially from those projected in these statements. No statement contained herein constitutes a commitment by AVEVA to perform any particular action or to deliver any particular product or product features. Readers are cautioned not to place undue reliance on these forward-looking statements, which reflect our opinions only as of the date of this presentation.

The Company shall not be obliged to disclose any revision to these forward-looking statements to reflect events or circumstances occurring after the date on which they are made or to reflect the occurrence of future events.

 [linkedin.com/company/aveva](https://www.linkedin.com/company/aveva)

 @avevagroup

ABOUT AVEVA

AVEVA is a global leader in industrial software, sparking ingenuity to drive responsible use of the world's resources. The company's secure industrial cloud platform and applications enable businesses to harness the power of their information and improve collaboration with customers, suppliers and partners.

Over 20,000 enterprises in over 100 countries rely on AVEVA to help them deliver life's essentials: safe and reliable energy, food, medicines, infrastructure and more. By connecting people with trusted information and AI-enriched insights, AVEVA enables teams to engineer efficiently and optimize operations, driving growth and sustainability.

Named as one of the world's most innovative companies, AVEVA supports customers with open solutions and the expertise of more than 6,400 employees, 5,000 partners and 5,700 certified developers. With operations around the globe, we are headquartered in Cambridge, UK and listed on the London Stock Exchange's FTSE 100.

Learn more at www.aveva.com