

MAY 17, 2022

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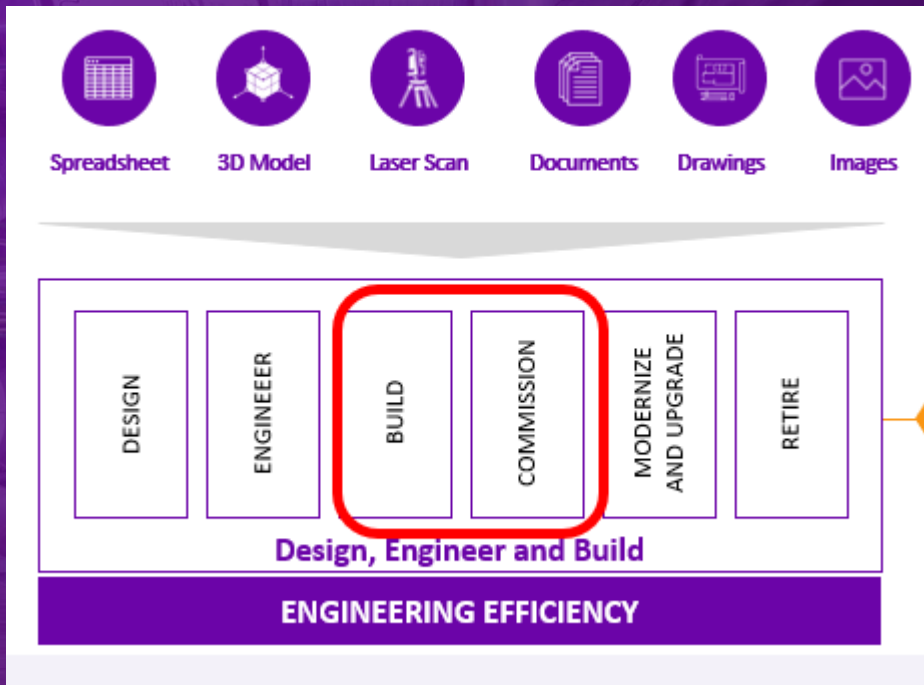
# Project Execution

## Expanding new partnerships

Lee Tedstone – Vice President, Project Execution Business

**AVEVA**

# Delivering Project Assurance



## Complexity

*“With major capital projects, there’s so much at stake. These projects are simply massive and complex and without a robust project delivery framework, the slightest issue—over existing site conditions, materials or insights to support decision making for example—can quickly turn into a multimillion-dollar issue.”*

*Accenture Capstone Framework Survey 2021*

## Control

*“More than ever, we will now see the need to de-risk project execution. The ultimate goal would be for the CEO to have access to live, real-time information for all the organization’s capital projects. You can only do that if project data flows seamlessly. For example, from a pipeline construction project in Uzbekistan to a storage facility in Texas to the CEO’s office in New York*

*IIR – Outlook on Project Spending*

## Confidence

*“CEOs at infrastructure companies overwhelmingly agree that technology will transform their businesses over the next five years.*

- 84% plan to improve their ability to innovate;*
- 87% plan to change their technology investments;*
- and 87% are exploring better ways of using and managing project data”.*

*PwC’s Capital Projects & Infrastructure practice*

# Top Challenges for Owners and EPC in Project Delivery

## Top 5 challenges that prevented owner-operators from digitally enabling their most recently completed capital projects

- 1 Limited interest and patience within on-ground project teams to drive data-driven digital decision making
- 2 Absence of a strategy and skills to build and deploy actionable insights with digital technologies
- 3 Siloed teams within and across project stakeholders
- 4 Poor understanding of how available data can be deployed for generating critical and tactical business insights
- 5 Inability of a stakeholder-driven strategy to execute shared incentive or collaborative contracting across the project value chain

### Sustainability

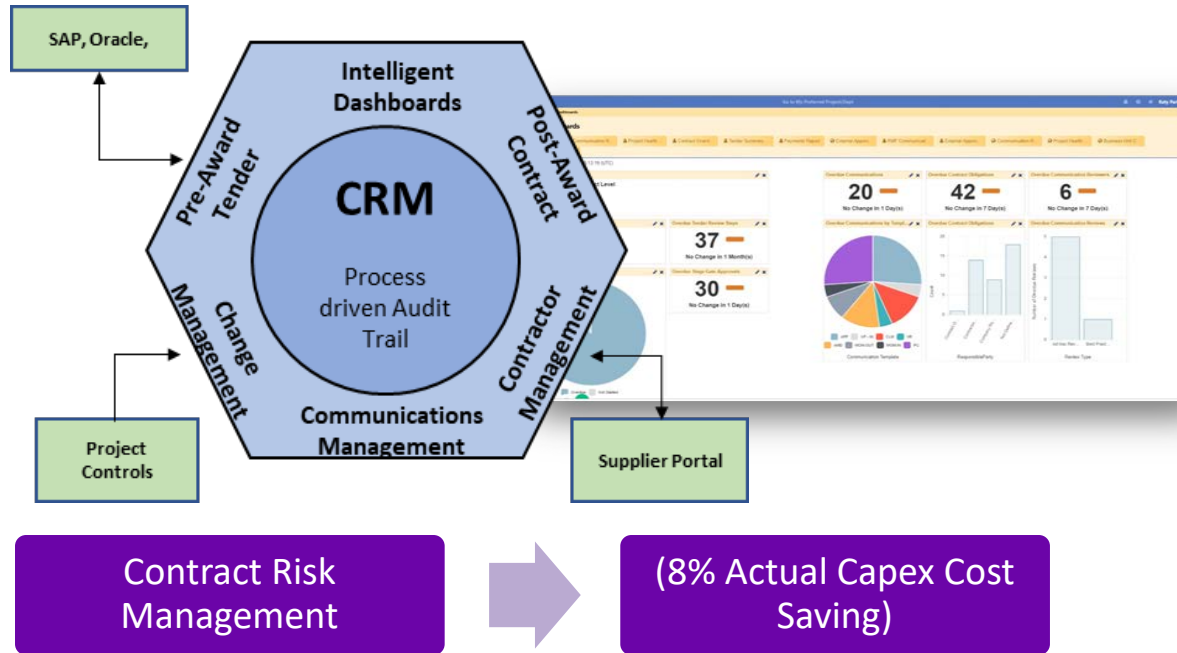
- Energy Transition
- Carbon Reduction
- Resilient Plant/ Infrastructure

## Top challenge faced by EPCs while executing the most recently completed capital project (by project stages)

Business Development	Challenges creating accurate schedule, cost and benefit estimates
Project & Contract Management	Inability to integrate sustainability agenda with project partners
Design & Engineering	Managing engineering change impacts across project supply chain
Procurement	Fabrication facility equipment availability issues
Fabrication	Absence of a stakeholder-driven strategy to execute data-driven digital transformation across the project value chain
Construction & Commissioning	Limited ability to monitor productivity and verify time monitoring
Handover to Operations	Manually intensive process to manage data exchange, validation, and loading into operational systems
Operations & Maintenance	Lack of feedback of asset performance back to design and engineering

# AVEVA Project Execution Solutions

## Existing Capability for Owners and EPCs



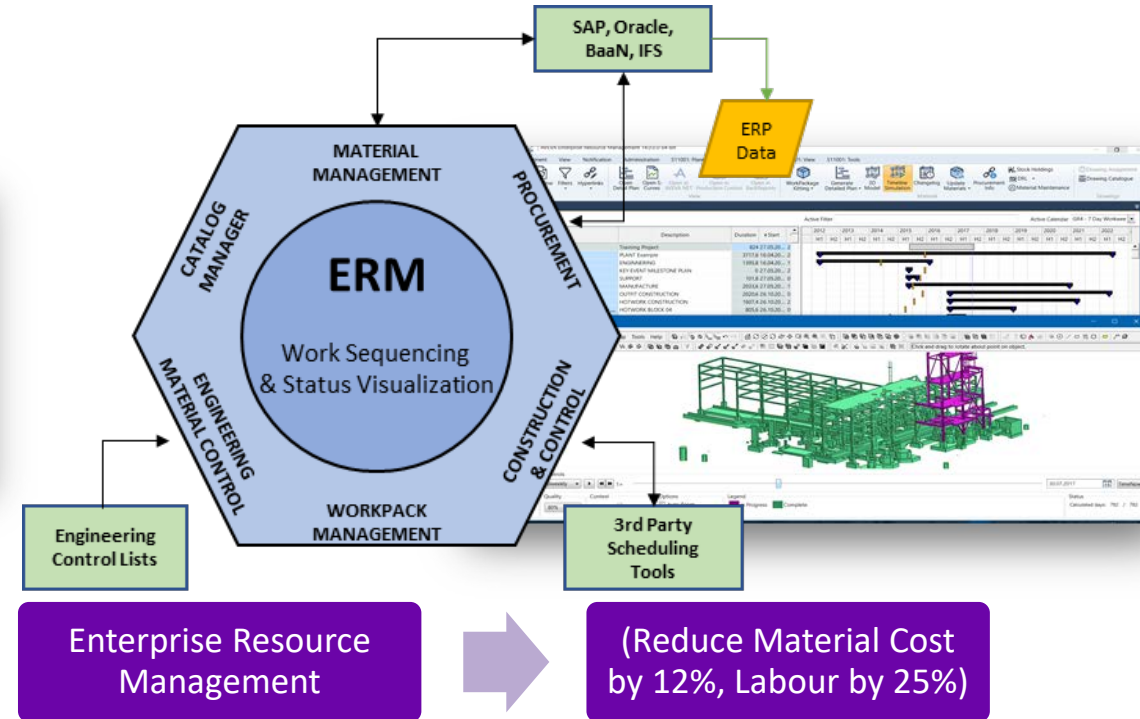
Connecting Distributed Work Teams

Enabling Data Connected Decisioning Making

Disciplined Communications and Process

Contractual Obligation Compliance

Enhanced Governance, Claims Mitigation & Defence



Single source of material status from spec to installation

Reduce waste material, reducing carbon footprint

Managing impact of change across project supply chain

Ensure constraint free packages for fabrication & installation

Reducing lost/waste of tool time with workface planning

Monitor project performance and KPIs for EPC and OO



# NextGen AVEVA Project Execution through partnership

## Current Solutions

Enterprise Resource Management (ERM)

Contract Risk Management (CRM)

Construction Planning (AWP) : ERM

RIB MTWO for Light Industrial

- Cost Estimation
- Project Controls
- Model & Data Management

NEW

## Coming Soon!

ERM: Materials Control – Track & Trace, Insights

Contract Risk Management: Smart Analytics, Workflow enhancement

Construction Planning (AWP): ERM + control tower

RIB MTWO for Heavy Industrial

- Cost Estimation and Project Controls
- Estimation integrated with AVEVA Simulation solutions
- Dashboarding & Connected Worker
- Integrated with AVEVA Solutions

NEW

## NextGen UPE (Future Roadmap)

Enterprise Resource Management: NextGen +

Contract Risk Management: NextGen +

Construction Planning (AWP): VCM + AI

RIB MTWO:

- Cost Estimation and Project Controls
- Estimation integrated with AVEVA Simulation solutions
- Dashboarding & Connected Worker
- Integrated with AVEVA Solutions

NEW

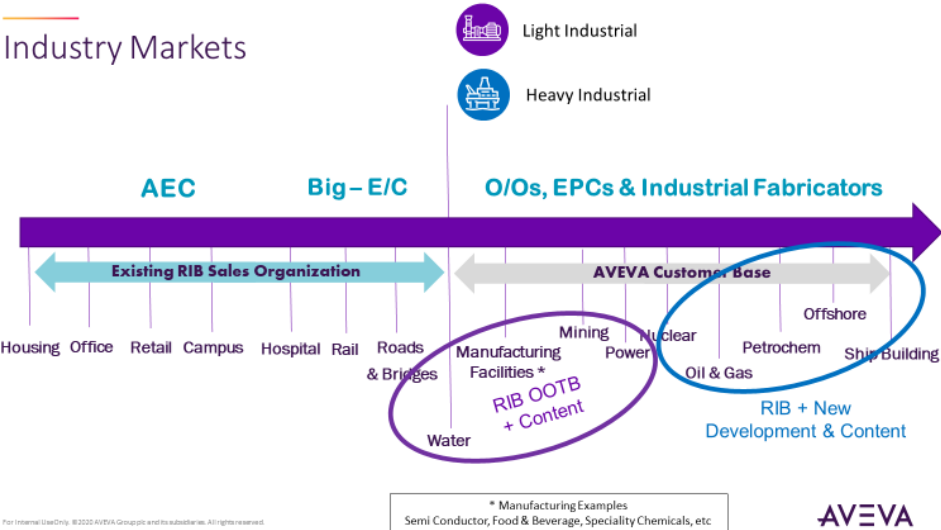
Completions, Commissioning and WP Execution

Inspections (Weld and Flange Management)

Material / Asset Track & Trace

Document Management

## Industry Markets

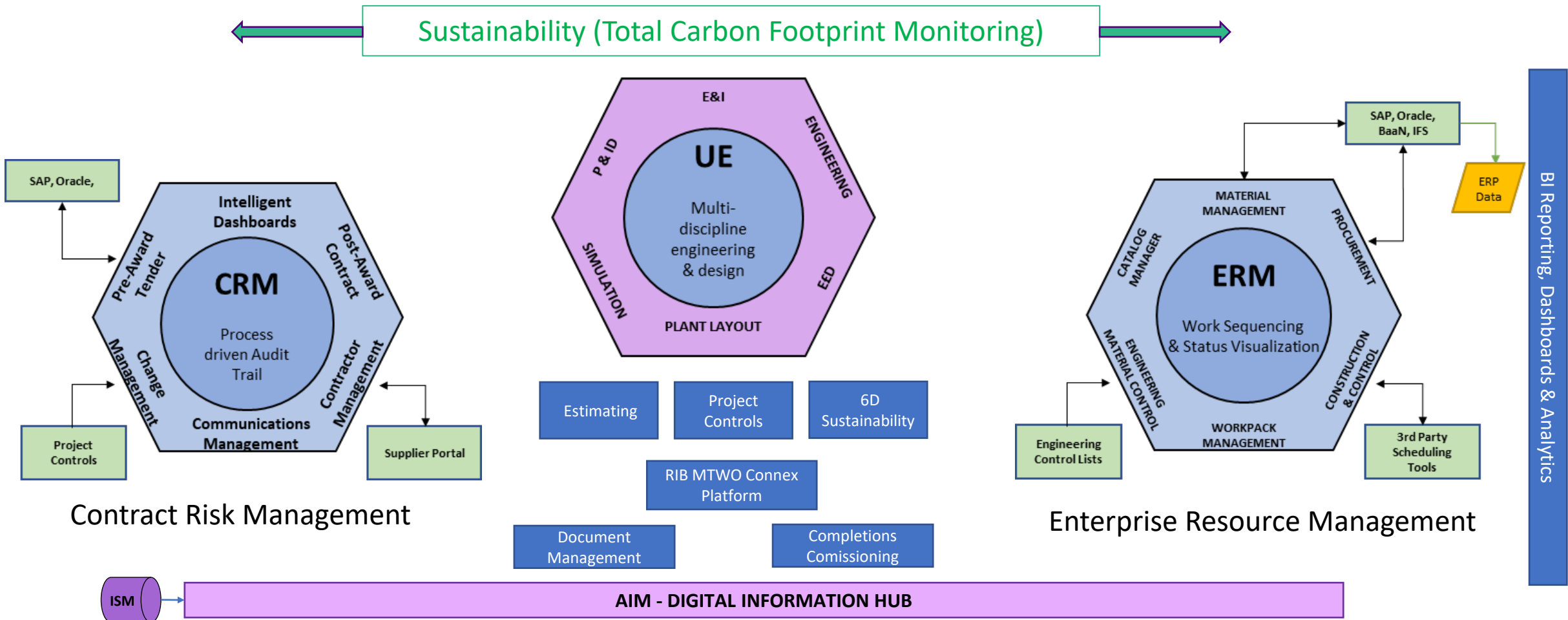


Current AVEVA

From RIB

New

# AVEVA Project Execution Solutions



**VISION** Deliver a fully capability set of project delivery applications that are integrated to the AVEVA digital platform that support our customers' ability to drive project value (25% TIC), delivery assurance and sustainability





Shell

Shell is using AVEVA's cloud-based Contract Risk Management solution to across multiple projects, contractors and regions where project discipline paramount to control cost, schedule, quality and safety

Cloud-based solution enabling Shell to have better control on project risk while also ensuring alignment between JV partners by having best contracting process mapped and configuring in solution

Worth 1%-2% of Capex

20% - 25% Contracting Admin Efficiency

Bullet proof audit trail of contractual decisions

Claims reduced by 50%





## Worley

Worley delivers projects, provides expertise in engineering, procurement and construction and advisory services covering the full lifecycle, from creating new assets to sustaining and enhancing operating assets

“The EPC market is undergoing a period of change and our customers are looking to us to help them find solutions in this new world. The advances in technology and digital disruption have provided us with an opportunity to rethink our approach to materials management” said Andrew Wood, CEO Worley.”

Running over 200 projects on ERM globally  
diving significant cost saving



AVEVA



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# Thank You

Contact for more information:

[Lee.Tedstone@aveva.com](mailto:Lee.Tedstone@aveva.com)

LinkedIn:



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