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Digital Project Execution solutions for Maximizing Capital Project Success

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AVEVA WORLD 2025

Agenda

Digital Project Execution
solutions for Maximizing Capital
Project Success

Moscone West Center
San Francisco

Industry Challenges

Benefits from adopting Digital Project Execution Solution

Digital Project Execution Capabilities

AVEVA's Digital Project Execution Solutions

Case Studies + Benefits

Key Industry Challenges for Project Execution



Key Industry Challenges

The Problems We're Solving



50–60% of construction costs **come from materials, which control** 80% of the construction process¹



60% of construction companies **report difficulties in tracking materials across projects, leading to delays and cost overruns**²



70% of construction delays **are attributed to material shortages**³



30% of EPC's time is lost—20% **searching for materials and 10% tracking purchase orders and expediting**⁴



40-70% of a **construction company's total spending is tied to procurement**⁵

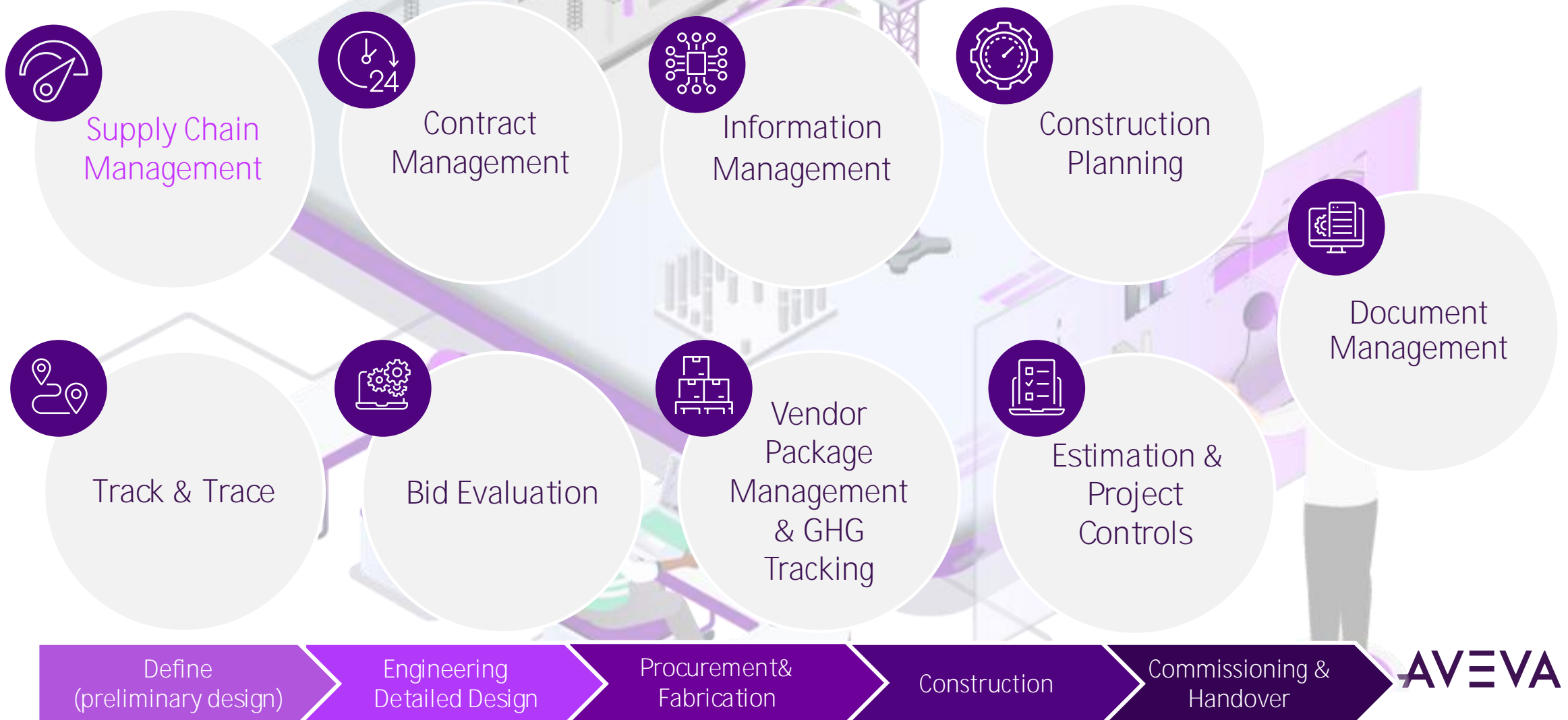
1 [MDPI 2024](#), 2 [McKinsey 2024](#), 3 [KPMG 2021](#), 4 [CII, 2018](#), 5 [McKinsey 2023](#)

Digital Project Execution Capabilities across project's lifecycle

AVEVA

Digital Project Execution capabilities

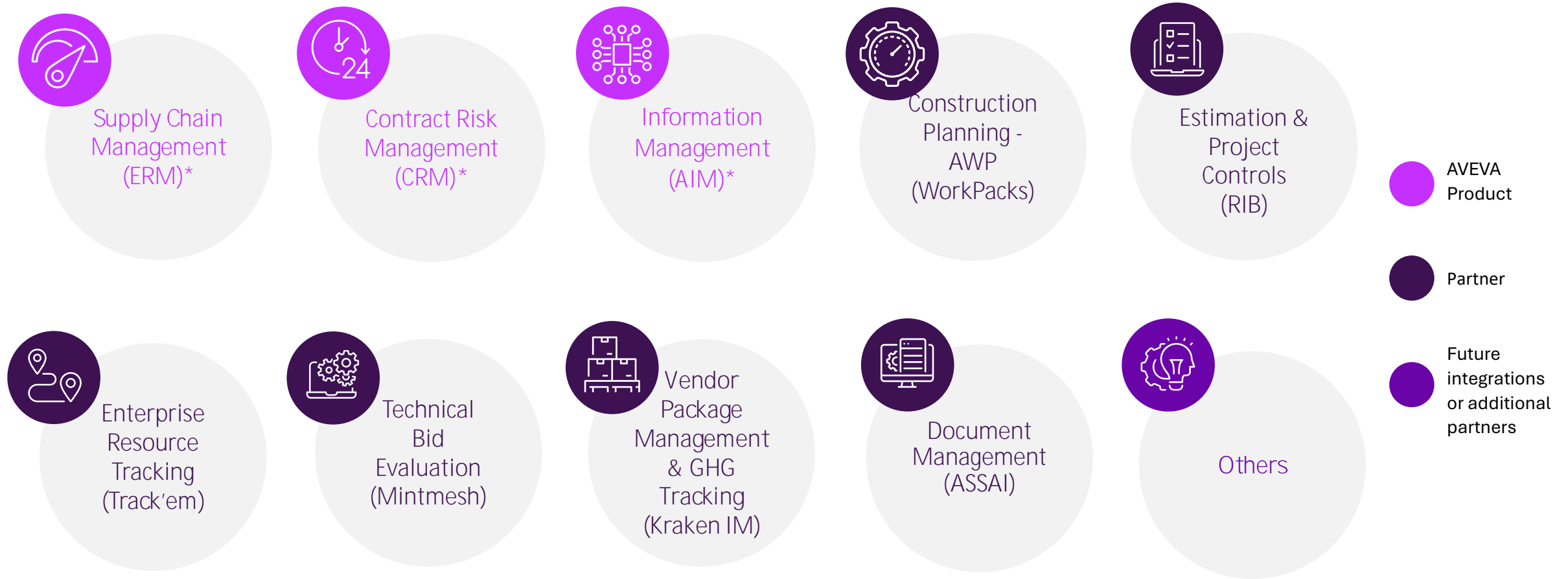
What a Capital Project needs across its Lifecycle



AVEVA's Digital Project Execution Solutions



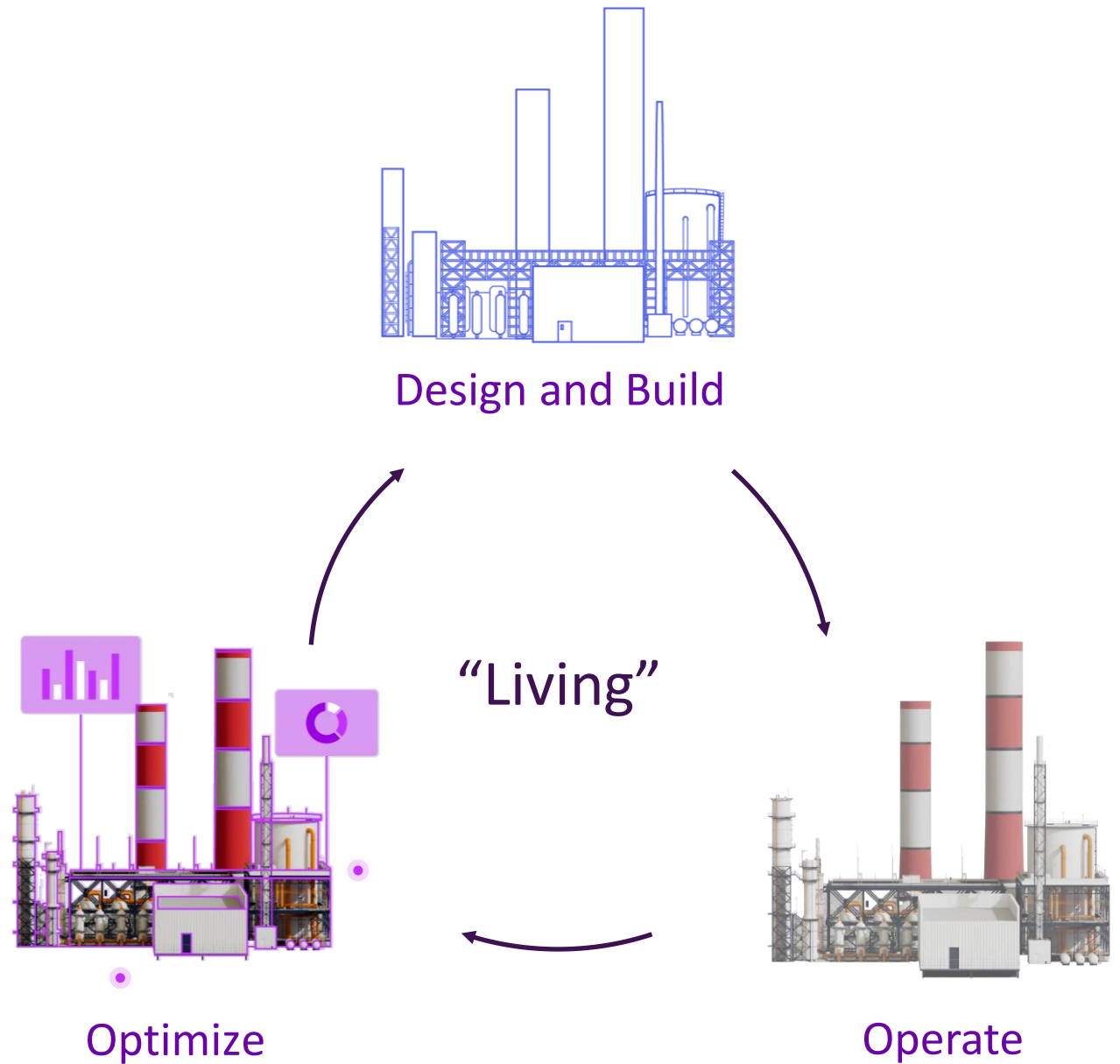
AVEVA's Digital Project execution & partners



- AVEVA™ Enterprise Resource Management (ERM)
- AVEVA™ Contract Risk Management (CRM)
- AVEVA™ Asset Information Management (AIM)

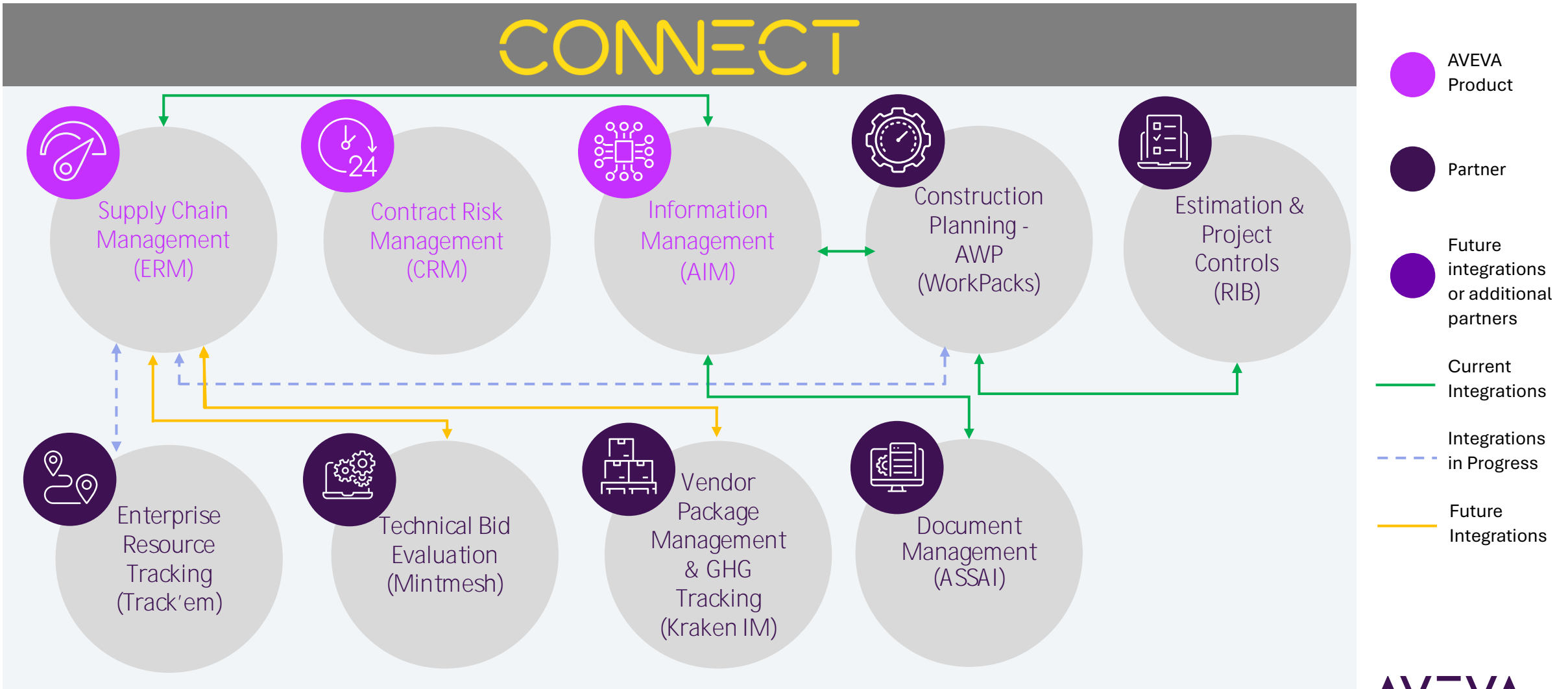
AVEVA is bringing
together experts
across the
industrial life cycle

Driving continuous
improvement
across the
industrial life cycle

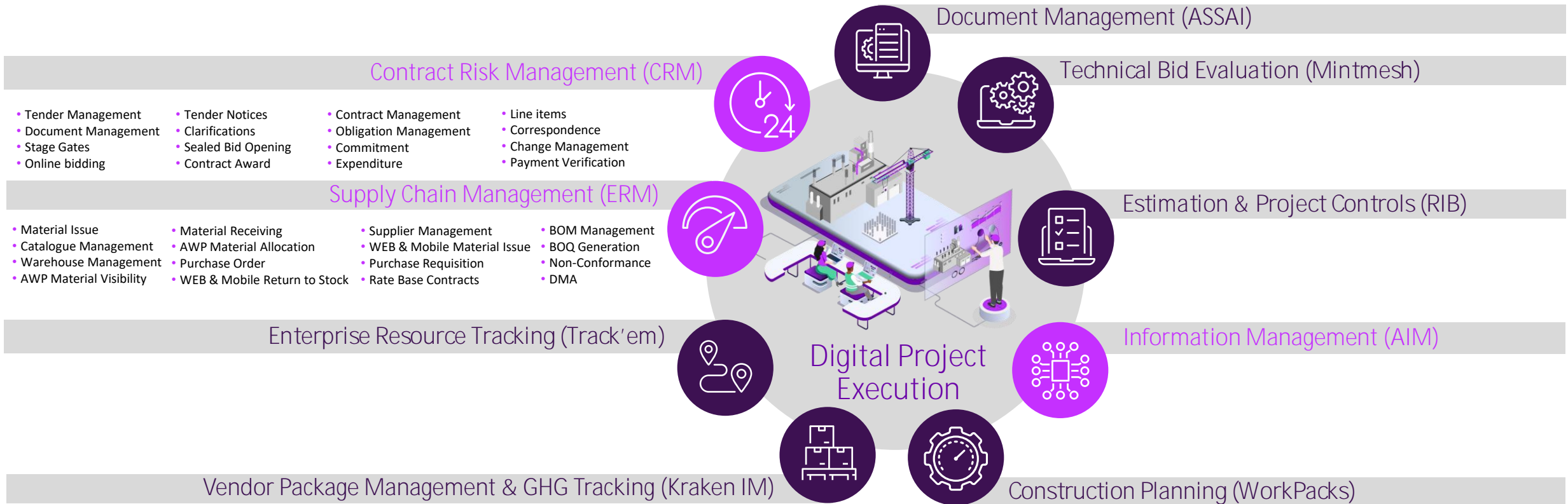


Digital Project execution & partners

The CONNECT Framework & API Roadmap

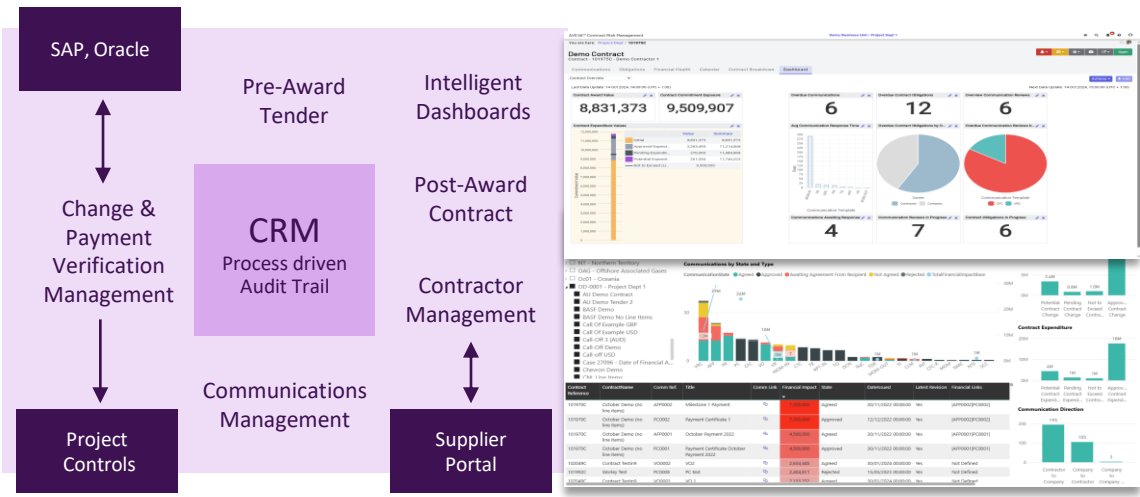


Digital Project Execution Capabilities

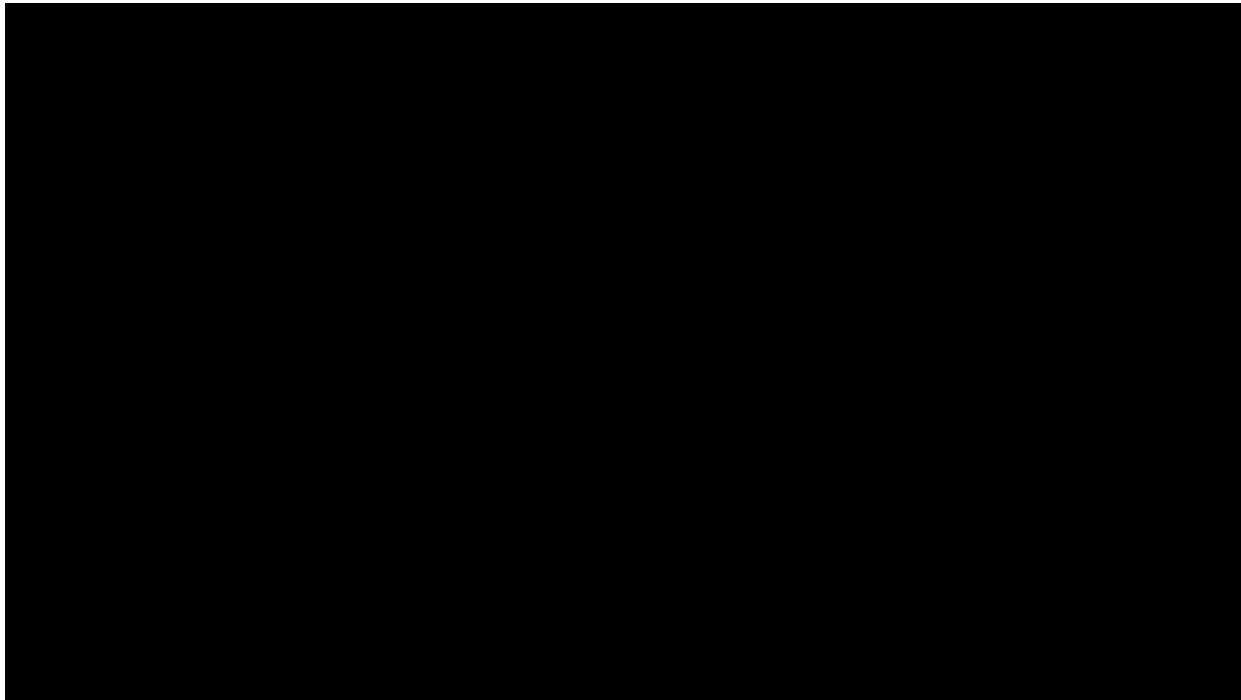


AVEVA Project Execution Solutions Today - CRM

Existing capability for owners and EPCs



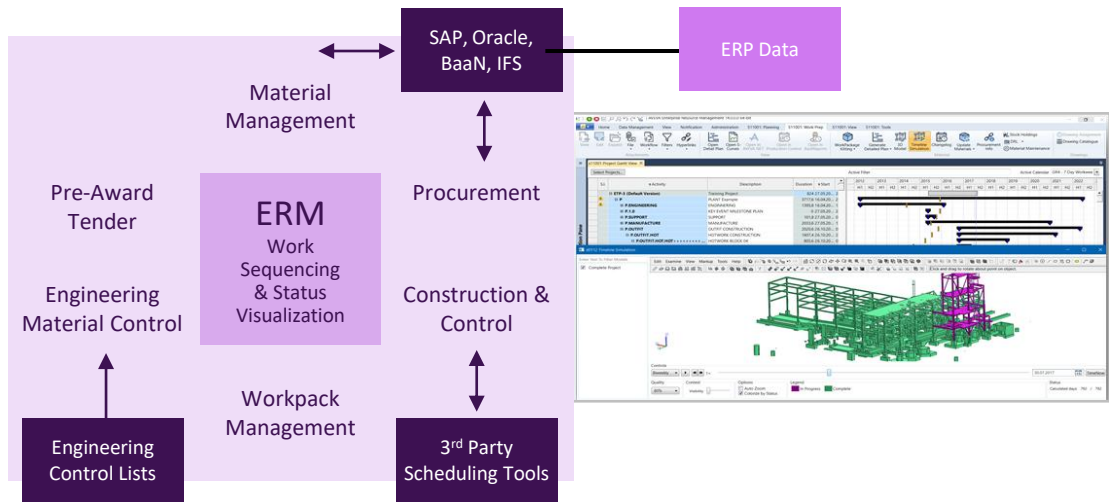
Video



- Connecting distributed work teams
- Enabling data-connected decision-making
- Disciplined communications and process
- Ensuring contractual obligation compliance
- Strengthening governance, claims mitigation and defence

AVEVA Project Execution Solutions Today - ERM

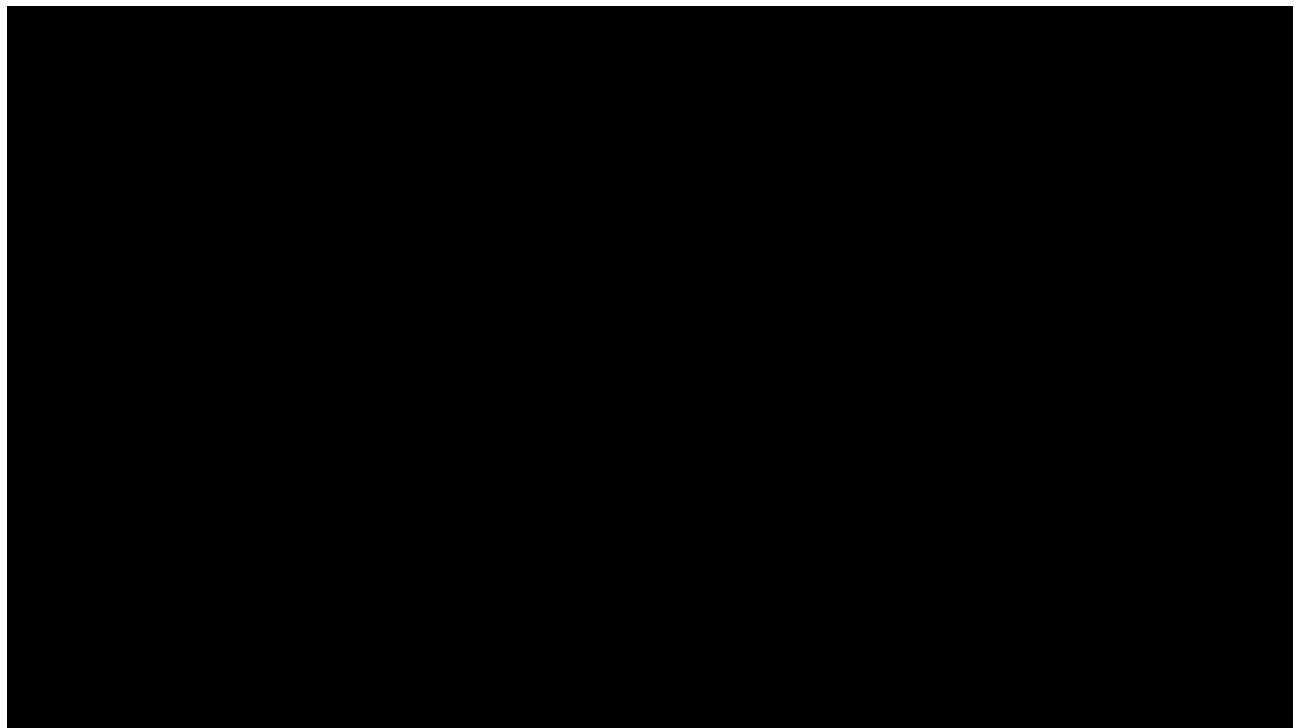
Existing capability for owners and EPCs



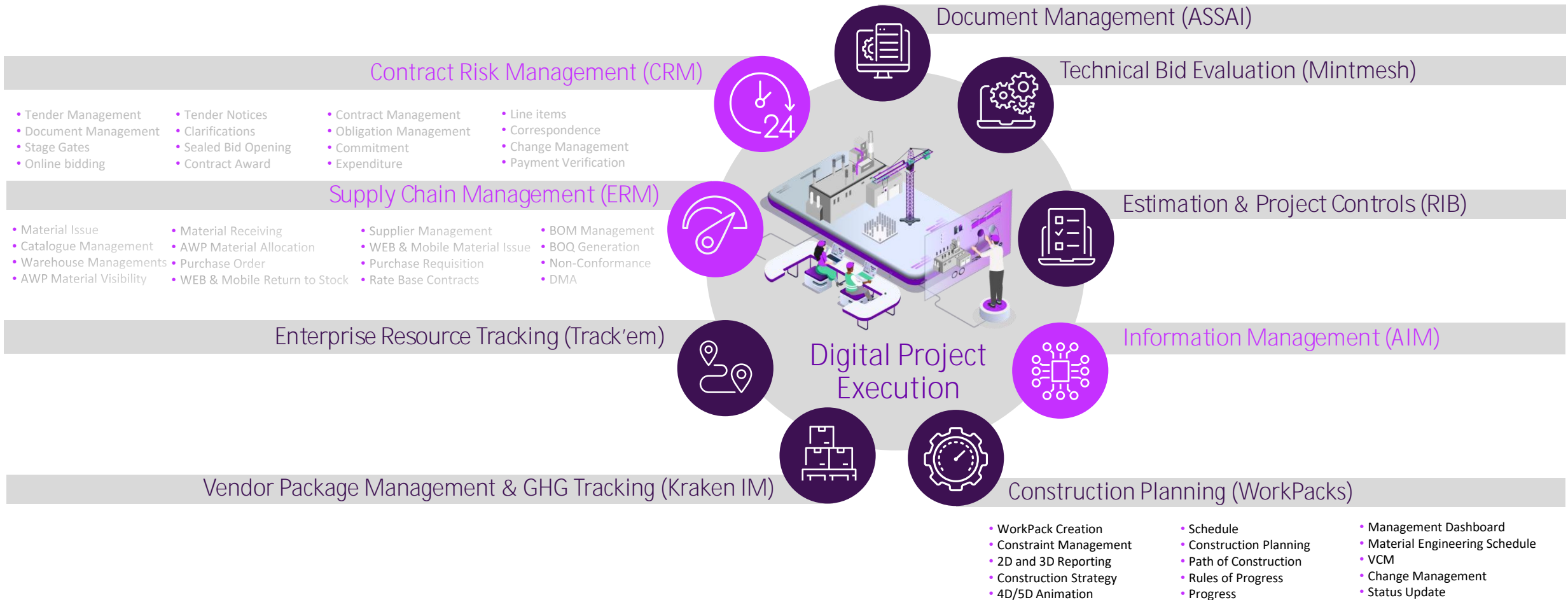
- Single source of material status from spec to installation
- Reduce material waste and carbon footprint
- Manage the impact of changes across the project supply chain
- Ensure constraint free packages for fabrication, installation
- Reduce lost/wasted tool time with workface planning
- Monitor project performance and KPIs for EPCs and OOs



Video



Digital Project Execution Capabilities



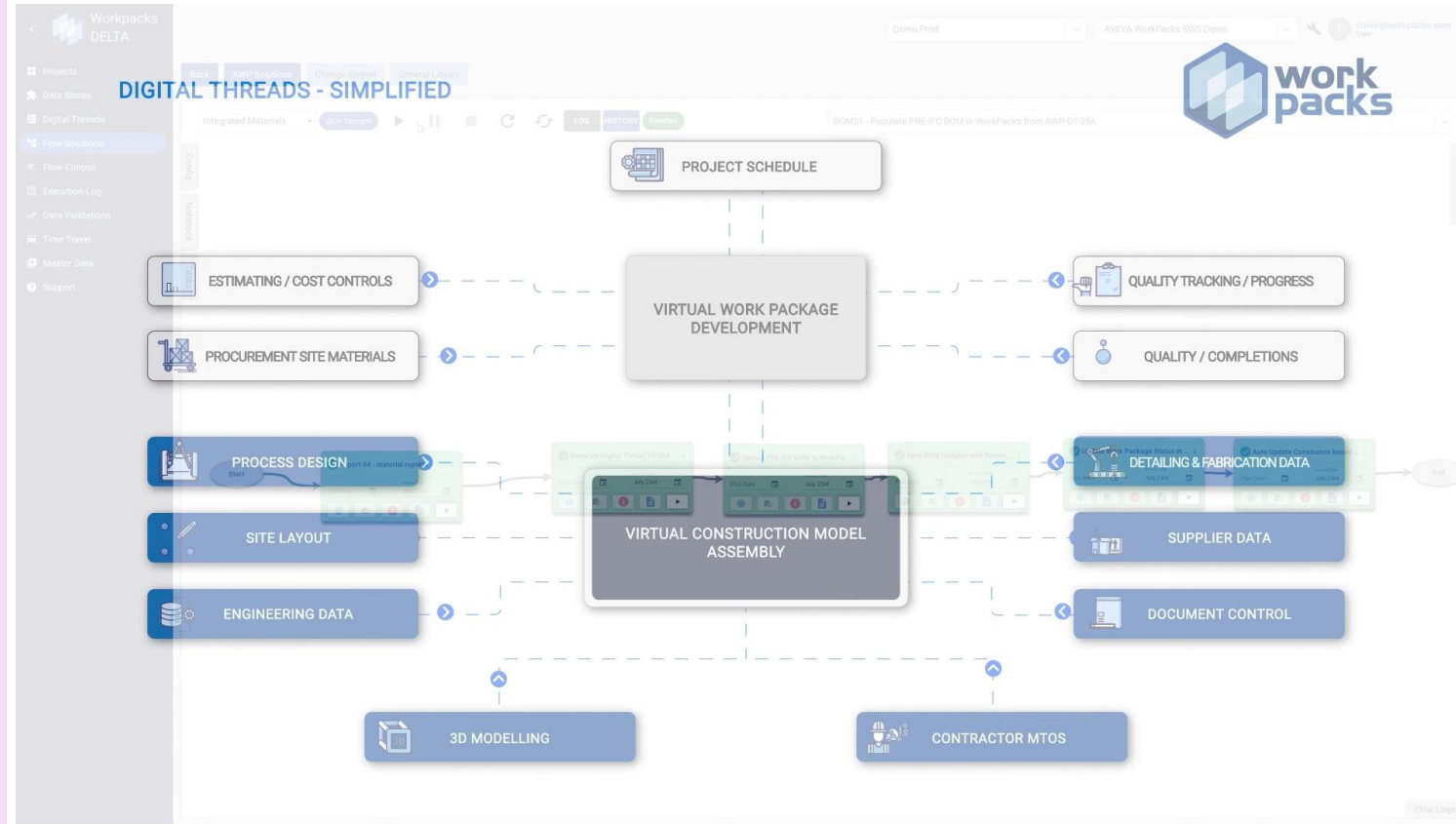
WorkPacks

Construction Planning and Best in Class

Advanced Work Packaging (AWP)

Key Capabilities: Solution

- Automated Work package Creation & Integration
- Bridges Scheduling & Execution
- 4D Simulation for Enhanced Planning & Execution
- Supports Early- Stage and Short-Range Production Planning
- Scalable & Easy Deployment for Any Project Size
- Boosts Productivity, Predictability & Change Management
- Trusted by Owners & EPCs On Mega Capital Projects



Digital Project Execution Capabilities



Track'em

Complete Track and Trace Visibility for Project Resources

Key Capabilities:

- Real-Time Tracking from Procurement to Installation
- Seamless Barcode, RFID & QR Code Integration
- Enhances Supply Chain Visibility & Coordination
- Prevents Loss & Misplacement of Critical Materials
- Optimizes Warehouse & Site Logistics
- Automated Compliance, Reporting & Audit Trails
- Scalable & Trusted by Global EPCs
- Mandated by Leading Owners

Track'em



Digital Project Execution Capabilities



KRAKEN IM

Halcyon – Trusted Engineering Data & Carbon Tracking Platform

Key Capabilities:

- Automated Engineering Data Capture & Collaboration
- Blockchain-Enabled for Secure & Verifiable Data Integrity
- Centralized Data Management for Capital Projects
- Real-Time Progress Tracking & Milestone Validation
- Seamless Integration with Design & Authoring Tools
- Ensures Compliance with Industry Standards & Regulations
- Carbon Tracking for GHG Emissions Monitoring & Reporting



AVEVA

Digital Project Execution Capabilities

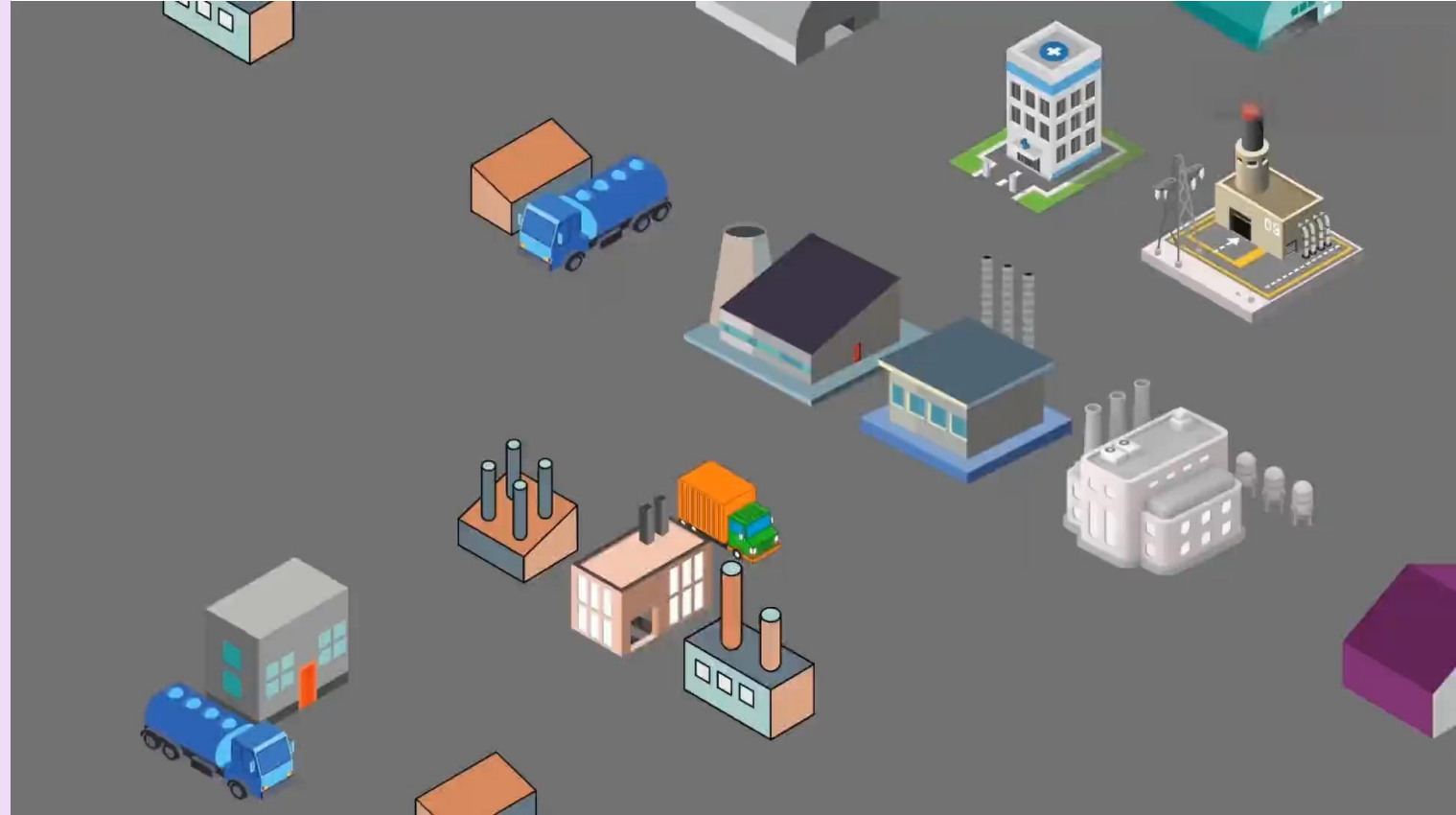


Mintmesh

AI-Technical Bid Evaluation for Smarter Procurement

Key Capabilities:

- AI-Powered Bid Evaluation & Supplier Selection
- Automated Engineering & Contract Document Analysis
- Faster Decision-Making with Generative AI & ELP Intelligence
- Collaborative Platform for Owners, EPCs & Suppliers
- Reduces Bid Evaluation Time from Days to Hours
- Automated Compliance, Reporting & Audit Trails
- Enhances Operational Efficiency by Up to 41%
- Trained AI on 85% of Large Asset Types for Precision



Tech Bid
Evaluation

Commerical
Bid Evaluation

AVEVA

Digital Project Execution Capabilities



RIB

CostX® – Unified Costing Platform for Construction Estimation

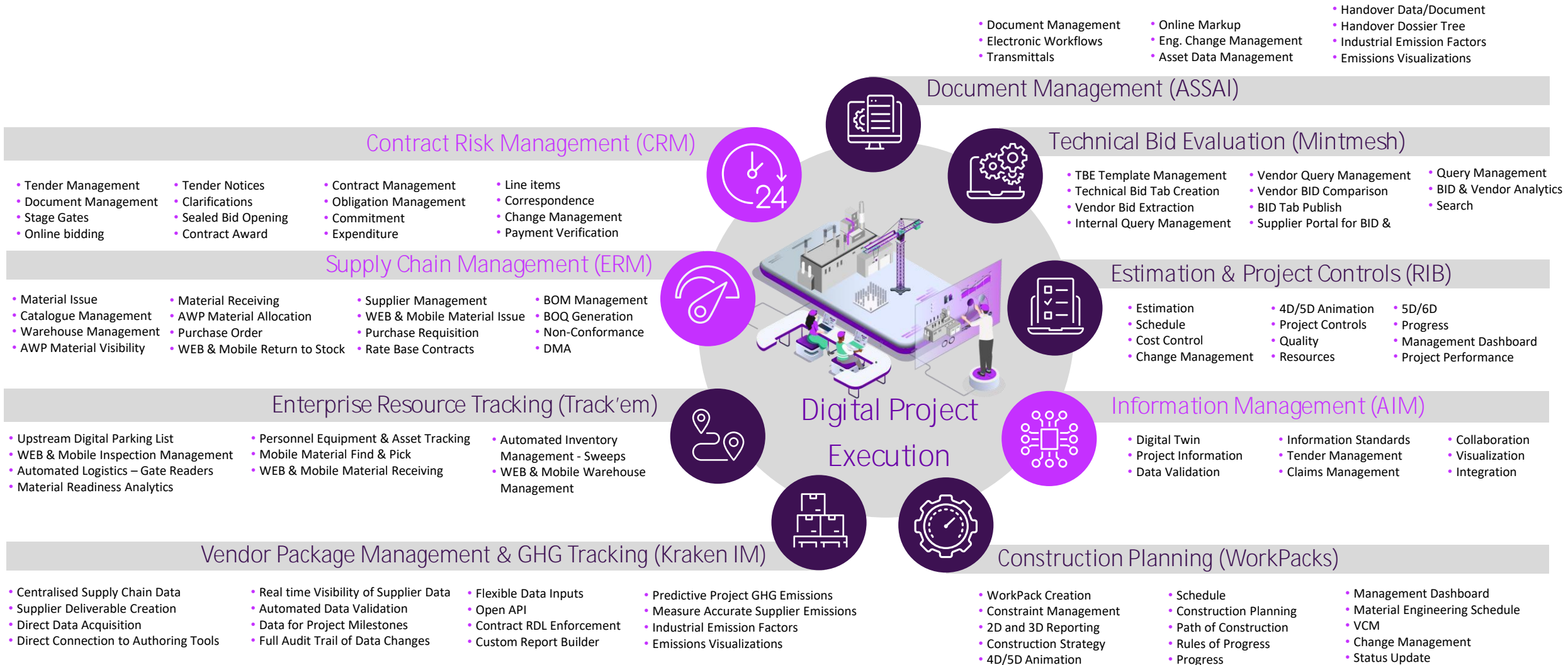
Key Capabilities:

- Unified Costing Platform for 2D, 3D, & BIM Estimation
- Automated Take-off with Single-Click 2D & Advanced BIM Support
- Live-Linked Workbooks for Real-Time Cost & Quantity Updates
- Auto-Revisioning to Track Changes & Reduce Errors
- Collaborative Multi-User Environment for Seamless Estimating
- Integrated Carbon Accounting for Sustainable Costing
- Faster, Smarter, & More Accurate Estimations



RIB CostX is an all-in-one 2D & BIM takeoff,

Digital Project Execution Capabilities



Our open, industrial
intelligent twin
enables innovation across
the industrial life cycle



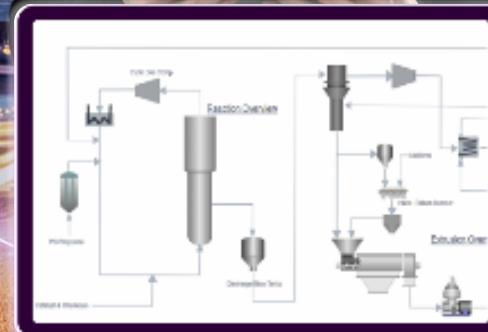
DESIGN



BUILD



OPTIMIZE



OPERATE

CONNECT

AVEVA

Case Studies

AVEVA

SAIPEM deploys a digital platform to improve project control across full its EPC chain

Challenge

- Heterogeneous software used by different functions led to manual data sharing and reporting, causing information bottlenecks
- Needed to build a unique environment to serve as data repository to facilitate data collection, sharing and analysis, throughout the individual project and across multiple projects (historic data)
- Manual calculation or in-house software were used by Engineering to generate BoQ with varying degrees of complexity
- Struggling to contain the scope of the project using commercially available software

Solution

- AVEVA™ Enterprise Resource Management. Integrated engineering and design including; AVEVA™ E3D Design and AVEVA™ Engineering

Results

- Uploaded catalogue for all engineering disciplines to improve project comparison
- Eliminated information bottlenecks and provided full end-to-end material visibility through successful interfaces with procurement and construction software
- Increased the traceability of material and the availability of historical data within projects and across projects at the enterprise level
- Enabled real-time feasibility according to projects priorities (enabling 'what-if' analysis)
- Improved communication through a common environment for all engineering disciplines



Aker Carbon Capture deploys a digital platform to improve project control across full its EPC chain

Challenge

- Disconnected remote teams in Norway and India need to collaborate live on engineering drawings and planning documents to develop innovative templates for new facilities
- Keep costs low and scale fast when projects kick off
- Keep abreast of rapidly-evolving regulation and meet rapidly evolving engineering standards and international engineering design protocols

Solution

- Deployment of AVEVA Unified Engineering in the cloud, including; AVEVA E3D Design, AVEVA Diagrams, AVEVA Engineering, and AVEVA Enterprise Resource Management

Results

- The team has been able to develop over 80 detailed design templates and P&ID drawings using AVEVA's industry-expert 3D models in the cloud.
- Cloud-based collaboration minimized errors and reduced FEED times by 20% alongside rework risks. In time the streamlined process should reduce materials wastage and help enable efficient supply chain operations too
- Repeatable design processes ensures optimal cost and efficiency
- Real-time visibility of project progress and information for the entire team improved collaboration and built trust in the fast-growing team

“ We are delighted to be partnering with AVEVA to drive the transition to market-leading carbon capture solutions. Using cloud-based engineering, we can connect our teams across the globe and share vital engineering data to optimize the delivery of the most efficient carbon capture plants possible today. ”



POC ROI validated in just
6 Weeks



FEED time cut by
More than 20%

Chantier Davie shipyard uses AVEVA to increase traceability, improve processes and meet deadlines

Challenge

- Information regarding schedule and material status was decentralized and spread across different tools.
- Looking up information was time-consuming and therefore held Davie back from the desired levels of efficiency.

Solution

- AVEVA™ Enterprise Resource Management, AVEVA™ E3D Design

Results

- Better design processes allow people from multiple locations to work on the same model.
- Visibility of material status and progress plans allow Davie to reduce the number of tools used.
- Efficiency is increased.

“In AVEVA ERM and AVEVA Marine, we have a dedicated and integrated IT environment. This, combined with the skills of our employees, has helped us to become a modern and competitive shipyard by reducing project cycles and so bringing down our total costs. Also, the excellent collaboration with AVEVA shows us that we are in safe hands, thanks to their expertise and their approach to shipbuilding.”

- Jared Newcombe; CEO, Chantier Davie



Oceana Estaleiro S.A. uses AVEVA to reduce cost, waste of materials and man-hours

Challenge

- Disconnected remote teams in Norway and India need to collaborate live on engineering. Accessing all information needed to streamline the ship production process was difficult.
- Planning across all disciplines was unreliable.
- Implementing efficient production was difficult because people and systems worked separately, not together.
- Production costs and assembly times needed reduction.
- Incorrect materials were being delivered, and deliveries were going to the wrong places and at the wrong times.

Solution

- Deployment of AVEVA Enterprise Resource Management

Results

- Man-hours are now monitored, resulting in less waste in both hours and materials.
- Work orders are now released closer to the execution date.
- One integrated system simplifies access to information.
- Deliveries became more accurate.
- Project status reports came in on time for updating plans.



“We chose AVEVA ERM mainly because it was built for shipbuilders. This made it faster for us to implement since it required almost no customisation. It easily integrated with our SAP planning systems, offering all-round capabilities, where all our technologies were working towards the same goals and no specialist knowledge was required to switch from one to the other. Everybody shares the same view and the same information, so there is a strong link between all disciplines, both in the shipyard and in terms of collaboration with our supply chain partners.”

- Juliano Pamplona, Head of Planning, Oceana

Benefits of the Digital Project Execution suite

How our solutions can help your projects



Visit us!

Stop by these booths in the innovation zone for demos and additional information:

Project execution booth – Booth 46

Harmonize your project execution - Demos of AVEVA Enterprise Resource Management, WorkPacks, Track'em

We will showcase what we can!



Recommended sessions

SAIPEM - EPC DIGITAL PLATFORM PROJECT

Wednesday 9, April 25 @ 1:15 pm

Engineering and Capital Projects Improvements – Project Execution Community session

Thursday 10, April 25 @ 1:15 pm

Room 2009/2011



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.

Visit us in the:

- Project Execution booth- 46
- Day 3 EPC (Capital Project Improvements) -

Thank you!



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ABOUT AVEVA

AVEVA is a world leader in industrial software, providing engineering and operational solutions across multiple industries, including oil and gas, chemical, pharmaceutical, power and utilities, marine, renewables, and food and beverage. Our agnostic and open architecture helps organizations design, build, operate, maintain and optimize the complete lifecycle of complex industrial assets, from production plants and offshore platforms to manufactured consumer goods.

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. The company is headquartered in Cambridge, UK.

Learn more at www.aveva.com