

BROCHURE

Integrated project delivery: capital project planning, materials and execution all in one place

Integrated enterprise resource management for proven project performance

The complexity of major capital projects (CAPEX) and the various business processes involved in their establishment requires the creation, control and use of vast amounts of resources and information.

While enterprise applications may be used to support individual processes such as managing time, expenditure and risk, the inability to share and reuse information between applications limits overall business efficiency, potentially leading to delays, penalties and risk.



The main challenges for process plant projects today are:



Defining a new future of on-plan projects

AVEVA Enterprise Resource Management is the new generation of resource management applications that meet the specific needs of the process plant sector.

Unique to the market, AVEVA Enterprise Resource Management combines material management, project planning and fabrication and construction support with engineering data and design models. The integrated solution delivers a powerful, easy-to-use platform for improving productivity, minimizing material and production costs and bettering project quality.

Built for the process plant and marine industries, the integrated AVEVA Enterprise Resource Management suite of applications supports the entire construction design and delivery process, creating efficiencies from the automation of initial project planning and material definition, through Bill of Materials (BoM) management, procurement and logistics, to construction and fabrication planning and control.

AVEVA Enterprise Resource Management provides unrivalled data integrity and its modular framework is flexible enough to meet the evolving requirements of any enterprise.

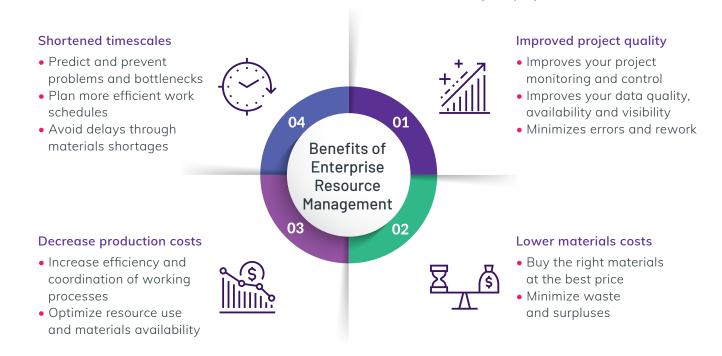
AVEVA Enterprise Resource Management ensures:

- The right materials are delivered to the right place at the right time, in the right quantities
- Progress and costs are accurately monitored
- Management decisions are based on up-to-date, detailed and accurate information
- Historical data is readily usable when tendering for new projects
- Accurate and detailed information can be extracted for management reporting

Based on AVEVA's open technology, data from AVEVA Enterprise Resource Management easily imports and exports with in-house or third-party systems, minimizing data leakage and protecting your investment in technology and information.

Embodying proven best practices and extensive industry experience, AVEVA Enterprise Resource Management enables the streamlining of all construction and material work processes.

Uniquely, AVEVA Enterprise Resource Management offers configurable, secure third-party access to its information, enabling seamless and effective collaboration on joint projects with other EPCs.



"We believe the AVEVA Enterprise Resource Management solution marks a step forward for productivity, efficiency and effectiveness that will drive the EPC industry forward."

- Andrew Wood, CEO, Worley

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Planning

A project planning and control tool, enabling the management and control of work breakdown structures and tasks.

Material

A materials management solution to support the entire materials flow, from budgeting through requirements, procurement, receipt, warehousing and issue.

Construction (Production)

A fabrication and construction planning and control tool, enabling the detailed management, scheduling and control of work orders and jobs in detail by using information provided by Planning and Material.

Catalogue manager

Technology for creating and managing bulk material catalogues, supporting the materials management lifecycle. Configurable to manage multiple engineering disciplines and meet corporate and client standards, it includes a tool to create and manage piping and other specifications to fully align 3D design with materials management.

Each module can be used independently, but the full value of AVEVA Enterprise Resource Management is achieved through seamless integration on a single database shared by all its applications. This unique feature ensures the best possible coordination between planning, material management and all other construction processes, and enables a progressive deployment to suit business needs and opportunities, with measurable benefits achievable at every stage.

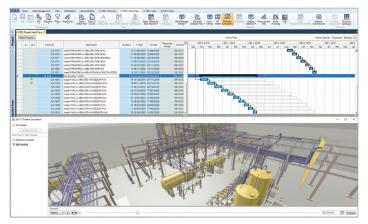
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Material status provides both the overall status of any project item, as well as details quantities at various stage

- Easy-to-use user interface means business adoption is simple
- Out-of-the-box seamless integration with many other AVEVA products makes interoperability effortless
- Built-in, best-of-class features support engineering, multi-discipline bulk materials, and specific processes for piping
- Simple integration with other Enterprise Resource Planning (ERP) systems and configurable to suit your needs

Each module can be used independently, but the full value of AVEVA Enterprise Resource Management is achieved through seamless integration on a single database shared by all its applications.

Created by experienced consultants who have been involved in some of the most complex engineering, procurement and construction projects in the world, and merged with planning functions from the shipbuilding industry, AVEVA Enterprise Resource Management meets the complete needs of the industries it serves.



Material linked to activities allows 4D visualization and timeline simulation

AVEVA

Software-as-a-Service

AVEVA Enterprise Resource Management can be deployed on-premises, or in a Software-as-a-Service (SaaS) deployment on AVEVA[™] Connect, our secure cloud platform, making it accessible wherever there is an internet connection.

Provide your global teams with a scalable, robust and reliable corporate enterprise resource management solution so they can deliver unified and integrated business processes, local and global projects in a globally shared environment.

Why cloud, why now?



Increase collaboration

The cloud allows you to consolidate data from multiple sources into a central location for improved transparency, accessibility and visibility across your value chain. Easily and securely share engineering models and critical operational information with employees, trusted partners and suppliers. Everyone sees the same data in context so smart collaboration is made possible. Data is unlocked and made available anywhere, anytime and any device.



Futureproof investments

Augment existing systems with digital services. Take advantage of new capabilities such as machine learning, artificial intelligence, advanced analytics, and more, all as a natural extension to existing systems. The cloud forms the backbone to the advanced digital twin so that you have a "living" representation of all elements of your engineering and operational activities.



Reduce costs

All the benefits of industrial software without the overhead of installation, deployment, version control and hardware maintenance. And because it's the same easy to use software now accessed over the internet, training costs are minimized.

The cloud offers commercial flexibility with various subscription approaches available. Pay for what you use, and quickly scale as required. Plus, your IT burden is reduced since AVEVA provides the necessary computing Infrastructure, backup, updates, security, and performance.

Learn more https://explore.aveva.com/aveva-connect/p/1

Unified systems for maximum value

AVEVA Enterprise Resource Management can be deployed as a part of a Unified Engineering and Project Execution solution (or both) where additional AVEVA solution components can be combined to derive the maximum return on your technology investment, to the tune of 15% off total project costs.

Unified Engineering

For example, the combination of AVEVA Enterprise Resource Management with AVEVA™ Asset Information Management and solutions from AVEVA's engineering and design portfolio allows our customers to uniquely benefit from a completely integrated construction management and control solution.

Using this combination, construction workers can access not only their list of jobs from planning, but also 3D models from AVEVA[™] E3D Design, and all the project documentation – such as drawings, photos, and datasheets – from the integrated information environment of AVEVA Asset Information Management.

Additionally, workers can provide feedback via their production control interface that will actively set access control to the 3D design model in AVEVA E3D Design or to documents in a third-party document management system.

Unified Project Execution

AVEVA Enterprise Resource Management combines with AVEVA[™] Contract Risk Management to streamline CAPEX delivery systems and align project planning, contract management, and resource allocation for minimized risk of project overages. Alignment between the solutions improves forecast reliability through automated insights and timely alerts when key project success measures are trending to miss the target.

Scope change in project delivery is vast and inevitable, requiring constant updates to contract and resource allocations each time there is an update to the plan. Commonly tracked manually, or with disconnected systems, each change increases the risk of human error and data loss which can ultimately drive up costs and push back the schedule.

AVEVA's integrated solutions deliver measurable benefits for executive, project, information, production and materials management.

With the most aligned systems available on the market project teams can improve transparency, collaboration, and decrease total project costs for better overall performance.

AVEVA Enterprise Resource Management Mobile App

AVEVA[™] ERM Construction Onsite

Access AVEVA Enterprise Resource Management remotely, from any global location with a tablet or mobile device. View job cards and work packages, record progress, and report back to construction control, all from a mobile device. Allowing for real-time responses to monitor and accelerate project delivery anywhere in the world.

For more information on AVEVA Enterprise Resource Management, visit: https://www.aveva.com/en/products/ enterprise-resource-management/



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