



3DEXPERIENCE®

NATURAL RESOURCES
**INTEGRATED CONSTRUCTION
INDUSTRY SOLUTION EXPERIENCE**

Develop on time and on budget



**UNIFY YOUR
PROJECTS**

Most Natural Resources mega-projects, mining, oil and gas, and others, come in late an over budget. More than 35% exceed their budgets and cycle time by greater than 10%; in mining, it has been reported that four out of five projects are late and over budget. While there are many challenges that lie in the way to success, poor visibility across processes and actors, outdated information, manual processes, and slow propagation are key inhibitors. Dassault Systèmes' **Integrated Construction** gives you the capabilities needed to overcome these challenges by unifying data, processes, workflows, users, and applications in its **3DEXPERIENCE®** platform.

Dassault Systèmes **Integrated Construction** brings together infrastructure and plant design, procurement and construction into one environment optimized for planning, lean execution based on full digital knowledge and continuity from one process to the next. This provides superior visibility for all stakeholders, based the latest information which is updated instantly with rapid propagation of changes. With this, it is easy to see the impact of changes, enabling projects to be kept on track to delivery times and budget.

BENEFITS FOR OWNER OPERATORS:

- Make better decisions by gaining visibility into more meaningful information, in the right level of detail for you and your team.
- Enable the demonstration that construction projects are under control to gain leverage in financing and insurance negotiations.
- Assess the environmental footprint, mitigate impact/waste, and communicate in a more meaningful and powerful way to the community and other stakeholders.

BENEFITS FOR ENGINEERING, PROCUREMENT AND CONSTRUCTION COMPANIES:

- Increase the reliability of project estimates with a focus on design and construction for operation from end to end.
- Avoid mismanagement and cost increases due to contract modifications.
- Become a trusted provider by providing digital assets that can be used for communication with customers and stakeholders all along the lifecycle of the site.

In Integrated Construction, all project components are in the system, so all changes and impacts are known to everyone who needs to know what is happening and what the consequences of change will be. Through dashboards tailored to the needs of executives, project managers, engineers, and others, the information needed to react quickly is all on hand. Information can be accessed and reported on at any level of detail. Overall progress of the entire project can be seen or drilled down to its individual components such as the status of modular component fabrication.

In Integrated Construction, communication and understanding is timely and impactful. Up-to-the-minute data shows whether a project is on track for completion on time and to budget. You can also oversee all capital projects underway and see the status of each and even demonstrate how you are mitigating risk to avoid delays and cost overruns.

SOLUTION COMPONENTS

- Infrastructure Design
- Facilities Design
- Virtual Operation
- Connected Procurement
- Virtual Construction
- Construction Control

To ensure complete understanding of designs and progress, 3D is used to communicate and better understand projects. Immersive 3D visualization simulates progress and what the ultimate end result will be, allowing issues and errors to be more easily identified along the way. Using its analytical tools with simulations also allows you to find ways to minimize waste, in construction materials, for example.

An integrated decision support environment

With Integrated Construction you gain an integrated decision support environment. This allows you to preserve ownership of authored material while sharing it with stakeholders, ensure full accountability of decisions, establish clear acceptance criteria, and demonstrate delivery. Operators can start or resume operations promptly; while EPC/M's demonstrate delivery sooner.

Digital handover

With digital handover, digital assets remain accessible to all parties; achieving a significant transformation throughout the project and after commissioning. You benefit from full traceability, business rules that ensure data integrity, standardization, and have a basis to continuously improve delivery.

For more information, visit www.3ds.com/natural-resources

Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 220,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.



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