



# OPTIMIZED SITE EXECUTION

ENERGY, PROCESS & UTILITIES



# Lean Construction Execution

*DELMIA's Optimized Site Execution solution for the Energy, Process & Utilities Industry transforms the construction plan into real value in the field.*

During the execution of complex and large plant construction projects, schedule delays, and resource and material issues can drive up costs. Control over mega capital projects is crucial for all stakeholders in the energy supply chain. Since the start of the 21st century, new "lean" methodologies have helped improve construction by eliminating material waste, duplication of efforts and design errors through better communication.

DELMIA's Optimized Site Execution solution provides visibility to all stakeholders on project status, in real time, for effective decision making. Access to accurate and up-to-date information helps minimize the waste of time, cost, and resources with executable and reasonable plans. From engineering deliverables to procurement and field execution, stakeholders can analyze change impact in real time and synchronize schedules between material flow and team activities.



Compress the construction schedule





Electronic work reporting enables real-time status reports

## INDUSTRY CHALLENGES

- How to increase cash flow for EPC and repeat orders through early or on-time completion of projects?
- How to minimize design errors, waste of materials, poor communication, and duplication of efforts?
- How to alleviate time and cost escalations on EPC — Lump Sum Turn Key (LSTK) contracts?
- How to ensure consistent quality as operations expand in places with unskilled labor forces?
- How to improve profit margins by focusing on performance, managing risks and costs?

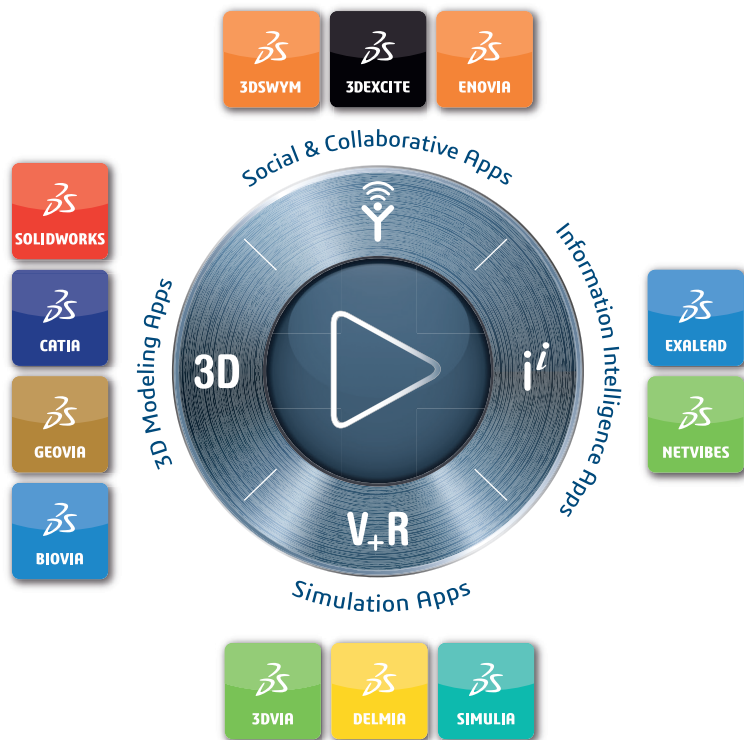
## SOLUTION HIGHLIGHTS

- Construction site synchronization with just-in-time deliveries that ensures the right materials and resources are at the right place at the right time
- Material traceability to identify specific attributes for its use, such as appropriate granularity, serial, lot, and heat
- Empower front-line field personnel to make decisions about what work to commit to
- Track PPC (Percent Plan Complete) as a measure of production system variability
- Visualize the construction workflow to identify conflicts and correct them before errors or delays occur

## SOLUTION VALUES

- Deliver projects on-budget and on-time, tailored to precise customer specifications
- Increase inventory accuracy
- Enable material deliveries to be just-in-time
- Deliver executable work orders to increase worker productivity
- Improve communication planning with visualization and open display of schedule, design and workflow

For more information, please visit [www.3ds.com/DELMIA](http://www.3ds.com/DELMIA)



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