



## SMARTPLANT® CONSTRUCTION

A major construction project involves thousands of workers, millions of details, and numerous complex variables, such as labor, materials, weather, and schedules. How can you manage billions of bits of data every day to complete the project on time and budget? How can you turn improved information management into increased field productivity?

The challenge for the construction industry is determining how to make informed decisions based on the most accurate information available, and how to manage people and materials in a dynamic construction environment to advance the project in the safest and most efficient manner.

### PROVEN TECHNOLOGY TO STREAMLINE CONSTRUCTION AND INTEGRATE ENGINEERING

Intergraph® SmartPlant® Construction is the innovative solution for construction planners, designed to meet the specific needs of construction companies, project management offices, fabricators, and owners in managing construction resources, materials, and schedules. The intuitive, configurable interfaces enable work package planners to create effective work packages using industry-proven work processes. Real-time material integration availability reports provide dynamic re-planning capabilities, and a configurable planning window enables planners to make economical modifications before problems grow.

SmartPlant Construction offers dynamic work package planning, construction sequencing, and reporting to streamline and integrate engineering for improved CAPEX efficiency and maximum construction readiness. It enables even the most complex construction projects stay on budget and schedule.

### BUSINESS BENEFITS

Intergraph has the industry experience, technology, and integration expertise to address the specific needs of construction managers, and facilitate smooth work processes with engineering and operations.

Here are some of the business benefits of SmartPlant Construction:

- Reduce risk and improve transparency of construction
- Save construction time with better planning and tracking
- Improve decision-making capabilities through ad-hoc reporting on construction progress, risks, and change costs
- Take advantage of integration with industry-leading SmartPlant Enterprise, as well as an open API
- Improve productivity and reduce training costs with simple user interface

### KEY FEATURES

#### 4D Visualization

With the solution's 4D technology, planners can sequence construction to optimize the project and visualize complex schedule information. SmartPlant Construction helps companies to identify project-critical paths and re-sequence work packages to eliminate costly delays and achieve project deadlines.

#### Construction Progress Management

One of the most critical tasks in field construction is the ability to accurately measure and report actual construction status throughout a project. SmartPlant Construction provides a platform to record field construction status based on configured rules of credit and report on this status. By using the 3D model, you can easily view progress in all stages of construction.

## Multidisciplinary Solution

SmartPlant Construction can be used in a variety of roles, including:

- Construction Planners
- Workforce Planners
- Construction Managers
- Project Managers
- Project Director
- Material Coordinators
- Field Superintendents
- Field Foreman
- Engineering Managers
- Engineers
- Field Engineers
- Expeditors
- Site Manager
- Safety Coordinators
- Quality Control Manager
- Financial Planners
- Cost Engineers
- Schedulers
- Construction Executives
- Integration Coordinators
- Resource Coordinators
- Equipment Managers
- Field Accountant
- Material Controls
- Field Procurement
- Weld Inspector
- Shop Superintendent
- Shop Foreman

## Open API: Integrate with Your Engineering Enterprise

SmartPlant Construction promotes better planning and management by incorporating the dynamic inputs from engineering, scheduling, procurement, fabrication, and materials management into a solution specifically developed for construction by industry-leading construction companies.

To enhance flexibility and interoperability, SmartPlant Construction offers full integration with the industry-leading SmartPlant Enterprise suite of products. Take advantage of data interfaces and true integration. The solution builds on the proven SmartPlant Enterprise portfolio by offering a wide variety of functionality provided by SmartPlant Enterprise solutions.

## Enterprise Solution

SmartPlant Construction benefits the entire engineering, procurement, and operations value chain:

- Owner operators can improve CAPEX efficiency by consistently managing engineering information from concept planning, detailed engineering, procurement, and construction into operations and maintenance
- Fabricators can provide direct input to facilitate real-world construction plans
- Constructors can reduce project cost with improved visibility on project plans, accelerate their ability to re-plan dynamically in response to real-world changes, and take advantage of enhanced integration with engineering, procurement, and fabrication to optimize both engineering and construction decisions
- Engineering firms can improve decision-making based on “real-time” construction status, and vice versa

**“SmartPlant Construction was developed from industry best-practice work processes, which gave us great confidence in the solution. We will see a step-change in both construction work packaging and progressing efficiency using SmartPlant Construction.”**

**Perry Mayer**  
Workforce Planning Superintendent  
Nexen Inc.

## ABOUT INTERGRAPH

Intergraph is the leading global provider of engineering and geospatial software that enables customers to visualize complex data. Businesses and governments in more than 60 countries rely on Intergraph's industry-specific software to organize vast amounts of data to make processes and infrastructure better, safer and smarter. The company's software and services empower customers to build and operate more efficient plants and ships, create intelligent maps, and protect critical infrastructure and millions of people around the world.

Intergraph operates through two divisions: Process, Power & Marine (PP&M) and Security, Government & Infrastructure (SG&I). Intergraph PP&M provides enterprise engineering software for the design, construction, operation and data management of plants, ships and

offshore facilities. Intergraph SG&I provides geospatially powered solutions to the public safety and security, defense and intelligence, government, transportation, photogrammetry, and utilities and communications industries. Intergraph Government Solutions (IGS) is an independent subsidiary for SG&I's U.S. federal and classified business.

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