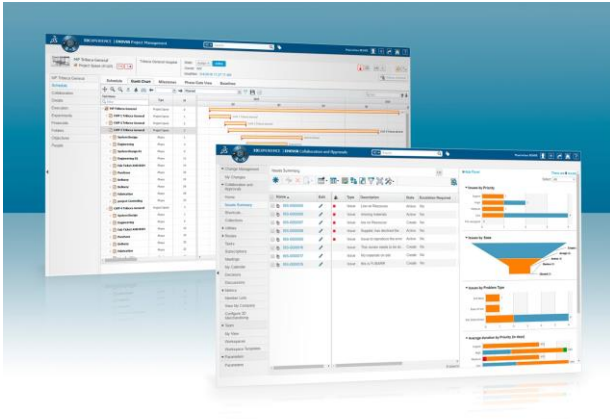# ARCHITECTURE, ENGINEERING & CONSTRUCTION
OPTIMIZED PROJECT
Part of Optimized Construction

ADVANCED PROJECT DELIVERY THROUGH EFFICIENT PROJECT FORECASTING, PLANNING, AND EXECUTION

How often have you dreamed of finding a fast track project environment and seamless coordination with internal and external stakeholders to finish a project on time? **Optimized Project**, part of the Dassault Systèmes Optimized Construction Industry Solution Experience based on the **3DEXPERIENCE®** platform, links all stakeholders to help ensure that a project is on the right track, delivered through the right process, and traceable. Streamlined project management during design, procurement, and construction helps create better performance for schedules and costs. Managing information and decision making across requirements, quality, risk, project issues, change, and schedule, Optimized Project provides a thorough project lifecycle process with deliverables-based program execution.

Optimize the project schedule across the project lifecycle

Traditional project management uses raw standard durations for high level activities in creating the master plan, leaving detailed scheduling up to the contractors to decide. Unfortunately, lack of consolidation can easily lead to costly and delaying conflicts. **Optimized Project** helps to globally optimize concurrent project schedules and plan faster project execution across all phases of design, engineering, procurement, construction, and completion. A master plan is built by coupling all phases from already detailed standard libraries of activities, quantified from past projects. For construction, tasks already have an execution plan of weekly activity. The progression computation through its rules of credit sets the standards for completion monitoring.

Manage project activity in real time

Construction project planning too often can get severely impacted by disruptions, such as a supplier's late delivery schedule or "Not Right First Time" execution. In addition to visible time lost through worker inactivity, people productivity is more subtly impacted by the time used for non-value-added activities needed to manage deviations instead of doing actual project work. Time is spent looking for information located in disparate systems that is needed for decision making and then reconnecting execution to master schedules. Actual status and risk reporting takes time to build and then arrives late, reducing the ability to anticipate needed decisions.

Optimized Project helps timely decision making that balances quality, cost, and delivery (QCD) to help avoid schedule delays and cost over-runs. Delivery performance is obtained by integrating data from the project execution and master schedule management systems. Adding financial information provides cost performance. This cost and delivery integration enables earned value management (EVM). Quality performance results come from extensive information management covering requirement, quality, risk, issue, and change data. Any project status reporting is updated automatically from execution status and is available anytime.
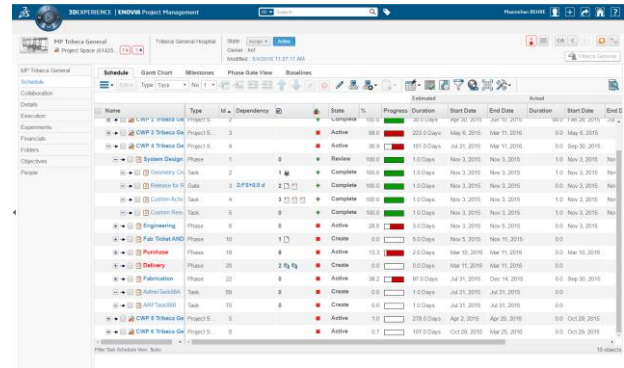
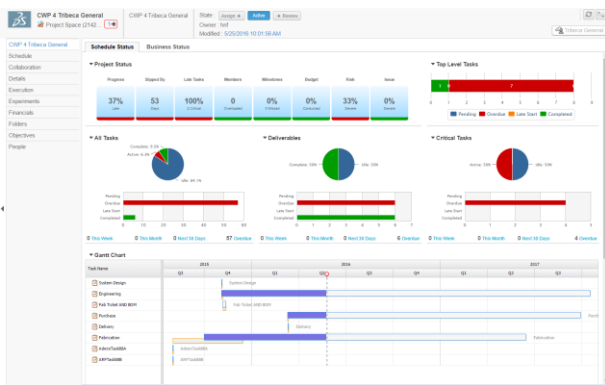Figure 2. Granular view of project tasks with progress status

Figure 1 Individual Sub project Dashboard

Leverage corporate knowledge and experience

Information management is not enough without leveraging value from content concerning risk, issues, and change. Quality performance results first from knowledge. Collective intelligence has proven to provide the best results. But it can only come about when collaboration is enabled and stimulated. Optimized Project leverages corporate intelligence by providing collaboration spaces for experts, stimulating discovery of innovative solutions. Progress metrics and historical experience from past projects are saved in libraries and referenced in order to not repeat the same mistakes on new projects and to optimize them from start.

DASSAULT SYSTEMES | The **3DEXPERIENCE**® Company