Project Services

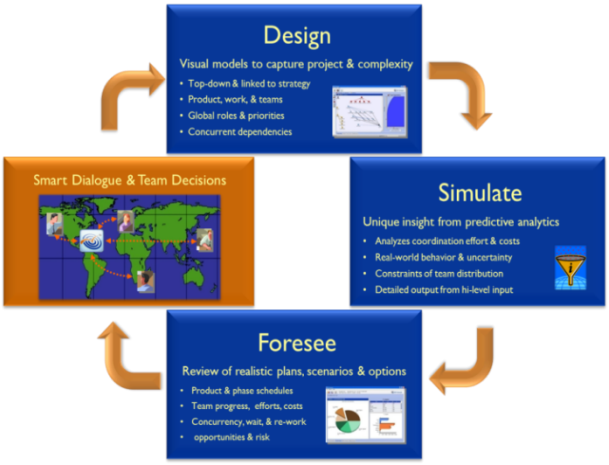
GLOBAL PROJECT DESIGN

Project Design

At the heart of GPD's solution is the design of projects, especially work by teams across functional, corporate, and cultural boundaries.

Starting before a project launches, high level Project Models allow insight into scope, architecture, and teaming, revealing scenario based trade-offs of duration, cost, and risk.

Design robust plans and launch teams for complex programs



As a project begins, our experienced practitioners lead a **collaborative design exercise**, rapidly generating project plans. A Baseline Plan is selected by the project team from many alternatives. These plans are both optimal and feasible. The involvement of teams significantly elevates their awareness and ownership.

As the project proceeds, the team updates the Project Model and validates the remaining **scope, resources, risks, schedule, and assumptions**, rapidly generating estimates to completion and "what-if" scenarios.

Project Models

A visual **Project Model** depicts the interplay of three fundamental systems: products, processes, and teams. The model enables rapid exploration of scope, architecture, roles, and dependence, promoting convergence on a common view. **Simulation** leverages the parametric model to predict a scenario's likely outcomes. Each simulated **Forecast** is a feasible plan with Gantt charts, utilization, and many dimensions of likely performance, uncertainty, and risk.

Collaborative Planning

In a cross-functional **workshop**, stakeholders and team leaders bring skills, experience, and knowledge of processes and the project to the table. The Project Model is adjusted (scope, dependencies, concurrency, roles, locations, etc.) by participants. Critically, teams focus on parts of **project behavior and architecture** that matter and are within their control. Teams uncover how changes in their own roles, commitments, and priorities have a systemic impact on results.

Baseline Plan & Trade-space

With a designed project, the cross-functional team commits to a **Baseline Plan**, including schedule, priorities, risks with mitigation, and forecasts of work and coordination. Assumptions and commitments necessary for the plan to be achieved are highlighted. Alternative plans and contingencies are analyzed across a **trade-space.** The teams' foresight and exploration of options continues as a core capability of the high performance project.

Project Design

"GPD's simulation and optimization approaches are a major step forward for executives and managers. Remarkably, GPD has captured real-world factors and valuable insights and folded them into a quantifiable and repeatable mathematical framework. The modeling and treatment of dependencies and communication requirements among various tasks are truly at the forefront of the industry. No one else has been able to combine these predictive technologies into a single, visual, collaborative framework.

GPD's tools will revolutionize the real-time management of complex projects, initiatives, and crises, and shall lead to reduced costs and shorter lead times."

Dr. Peter Luh, IEEE Fellow

Founding Editor-in-Chief, IEEE Transactions on Automation Science and Engineering

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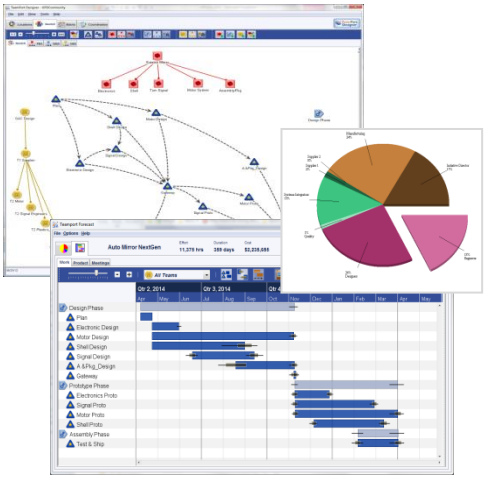
Project Design Sample Deliverables



Project Models

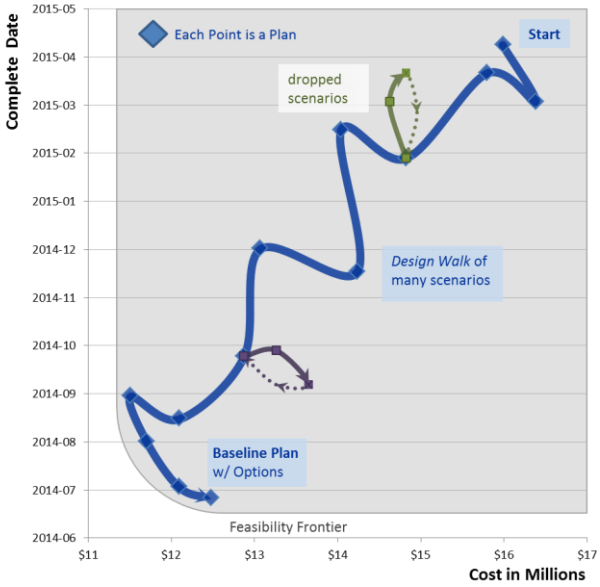
In a visual, collaborative, and sustainable level of detail, models allow early and more accurate forecasting of a project's likely outcomes. Plans generated include realistic coordination costs, impacts of complex dependence, decision latencies, and likely rework.

Ad hoc or backward looking estimates are replaced with model-based, visual, collaborative capability. As things change, and "what –ifs" are considered, the model is easily updated to generate new plans quickly.

Collaborative Workshops

Rather than waiting for onset of progress, delays, and rework, the cross-functional team gathers in an intense and productive planning workshop. The teams forecast a range of scenarios to understand likely outcomes given their situation and behaviors. They visually capture project architecture, scope, teams, critical resources, dependencies, risks, and commitments.

TeamPort quickly generates simulation-based forecasts. As a team, they adjust project architecture, priorities, roles, concurrency, and other aspects that they themselves can influence. Across design iterations, a set of optimized plans is generated.



Exploring the Project Tradespace

Powered by *Project Design*, teams explore multiple plans across many simulation generated forecasts. During a collaborative and analytic search process, teams build awareness of the trade-offs of scope, cost, schedule, and risk. By optimizing project architecture, alignment of capabilities, risk mitigation, and team behaviors, they seek a frontier of best, feasible plans. The teams bring practical options to executives and clients for a grounded dialogue. They converge on a full baseline plan, backed by the assumptions and commitments necessary to achieve it.

As progress is made and things change, the high-level project model is maintained for forecasts and ongoing re-design, leading to adaptive performance by teams.