GLOBAL PROJECT DESIGN

Digital Twins for High Performance Teamwork

About GPD. Global Project Design delivers next-generation model-based digital practices to match the complexity of modern work. With 20 years of breakthrough research and global deployments, we've crafted transformative services powered by a method called *Project Design* and a platform called **TeamPort**. Together these unique capabilities form a solution for design, coordination and ongoing re-design of initiatives, projects, and programs.

Founded

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Capabilities and results improve with plans linked to strategy, realistic schedules, and teamwork across boundaries. Gain 20% or more in schedule/cost results while teams performing with innovation and flexibility.

Locations

Boston

Tokyo

Berlin

Markets. Aerospace, Automotive, Energy, Health, Transportation, Architecture, Software, Engineering and Construction, Petrochemical, and Telecom

On the Web

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Early on a project plan is brought to stakeholders for approval. How can we know if it's a good plan? Is it feasible? Lean? Flexible? How many options were analyzed? Are the teams aware of commitments, dependencies, exceptions, and risk mitigations needed to achieve the plan? **Has the teamwork and project work been designed?**

Project Designers build digital twins of complex projects, generate forecasts supported by data analytics and simulation, and lead others to explore tradeoffs, refine systems and mental models. Together teams converge on high performance project architectures and behaviors.

Businesses spend 10% or greater of project costs on planning and ongoing control. Re-direct up to 2% of these existing costs to Project Design and gain 20% or more benefit in immediate project cost/ duration. Value of timely market entry, reduced defects, flexible adaptation to changes, morale, and learning for cross-functional teams leads to many times greater value.

REDIRECT 2% AND GAIN 20% OR MORE

By adopting Project Design as core capability, typical gains are 20% on cost and schedule.

Early-on, backed by analytics, teams generate realistic, agile, & optimized plans with options.

As things change, teams rapidly re-plan and adjust quickly.

Teams engaged and motivated.
Infeasible plans exposed.
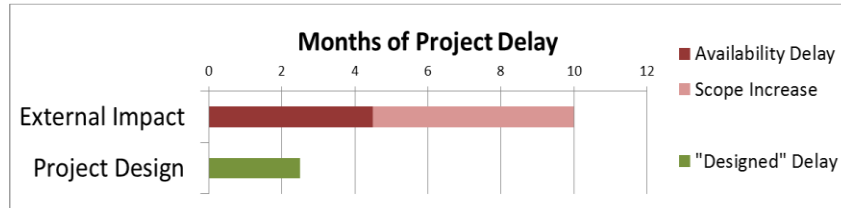*Risks and changes rapidly addressed.*
Failures prevented.

How is this possible?

Traditional plans do not systematically evaluate 35% to 50% of the activity driving modern projects. With Project Design it is now possible to uncover, confront, assess, and re-align activity related to coordination, re-work, and poor utilization -- before the project starts and rapidly as things change.

As more realistic yet optimal plans are designed by teams involved, situational awareness grows and performance improves. In response to contingencies and unknowns, teams quickly re-plan in a flexible and sustainable way.

Here's a typical real case: *A product development team found themselves struggling with chronic delays. The company faced missing promised delivery dates and risk of penalties for noncompliance with new regulations. Externally driven delays in parts availability added an average of 4-5 months of delay for each product model. Scope increases, also externally driven, added another 3-8 months of delay per model. Leveraging Project Design the program team was able – in a few hours -- to* **respond to changes, analyze options, and reduce delay by nearly 8 months** *without sacrificing scope.*

Explore Options and a Trade-Off Frontier

Project Design is forward-looking modeling and analytic capability applied to the complex portfolio and programs typical today. Much like design practices and tools revolutionized the product development of companies (e.g. 3D visualization, parametric modeling, QFD, CAD, CAE), Project Design is transforming awareness, speed, and performance of teams.

Rather than waiting for the onset of progress, delays, and rework, the cross-functional team (CFT) - using Project Design - gathers in an intense and productive workshop. They forecast a range of scenarios with likely outcomes. They rapidly and 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 rapid design iterations, a set (not just one) of optimized plans is generated. In this way they uncover and explore the trade-space of plans across scope, cost, schedule, and risk. The teams bring options to executives and clients for an effective dialogue. A full baseline plan, backed by the assumptions and commitments necessary to achieve it, is easily generated.

Our Offerings

TeamPort Software Platform. Visual models, simulations, and forecasts of complex projects generating realistic and flexible plans, ongoing collaborative analysis, scenario trade-offs, and situational awareness

Professional Development. Accelerated learning on Project Design and Management, Risk, Lean, PDRI, Global Teamwork, and other topics. Innovative ideas, workshops, cases, collaborative challenges, and professional mentoring

Project Services. Services for high performance planning and teamwork, such as engineering and product development, global programs, infrastructure rollout, and science and technology partnerships

Teamwork Transformation	Assessments, analytics, and best practices for teams engaged in complex projects with digital transformation, risk mitigation, agile development and global projects
Project Design	Teams with shared awareness, rapidly generate plans and options, integrate risk mitigation, and respond to real-world impacts supported by visual, accurate, and shared project models, simulation, and teamwork analytics
Ongoing Support	Establishment of portfolio and program management, experienced coaching for project managers, weekly capture of status and change, timely forward-looking estimates, rapid-re-design, and meaningful lessons learned