

the innovative

risk-based portfolio

project management platform

RAP

RISK ASSESSMENT PROFILER



it's a risky business

building the infrastructure

"If you don't invest in risk management, it doesn't matter what business you're in, it's a risky business"

CARLOS MENDIZABAL
PRESIDENT, ARETE

Capital infrastructure investments are expected to increase rapidly worldwide. Over the next several years an estimated \$57 trillion in infrastructure investments will be required to keep pace with projected global GDP growth through 2030.

A key goal for management of these projects is to prevent and reduce the threats a project may face throughout the course of its life and to minimize the impact of unpreventable or unforeseen risks.

The Integrated Risk Framework states, "businesses that successfully execute capital projects are supported by an experienced risk-management team that understands the stages of a capital project as well as the significant risks that exist in all phases of project delivery."

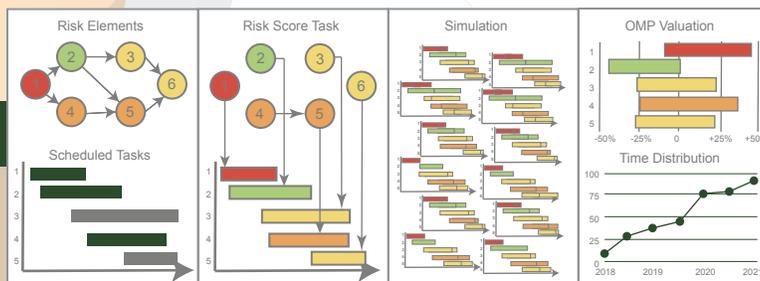
The benefit of understanding project risks is that once identified, management may take mitigative actions to minimize the impact. Therefore, adequate risk identification and mitigation is imperative to reducing schedule and cost overruns and is essential to effective capital project execution.

adequate risk identification and management is the foundation for effective capital project execution

RAP utilizes a unique, simplified approach that leverages industry complex analytic techniques; qualitative, schedule, and quantitative risk analysis.

QUALITATIVE RISK ANALYSIS is a technique that identifies the probability or frequency of a risk event occurring and the impact or severity the risk will have if it does occur. Risks have both probability and impact that determine a risk score.

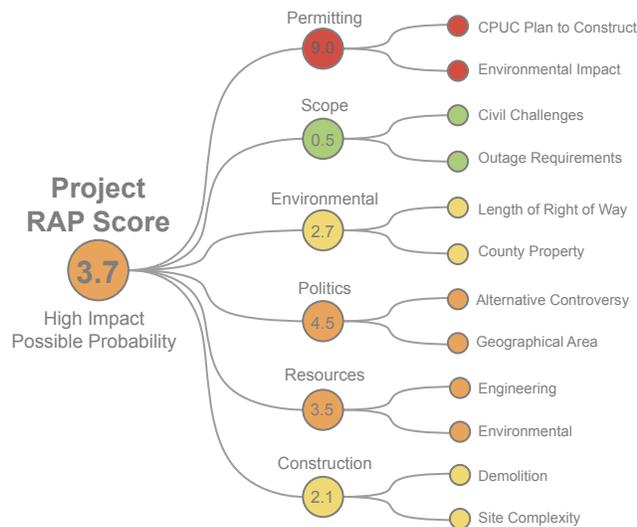
SCHEDULE RISK ANALYSIS is a technique that links the risk information of project activities to the baseline schedule, providing sensitivity information of individual at-risk elements to simulate the potential impact of uncertainty on the final project duration and cost. The project baseline schedule tasks are compared to the risk elements, then linked and simulated using Monte Carlo techniques. The results are analyzed to generate optimum, most likely, and pessimistic values.



QUANTITATIVE RISK ANALYSIS is a further analysis of the highest priority risks during which a quantitative rating is assigned to develop a risk register with corresponding action plans for mitigation. Inputs are derived from the qualitative and schedule analyses by automating the creation of the risk register and identifying the risk events, risk drivers, and mitigation actions.

flexible solution for your risk management needs

Understanding the challenges and complexities of capital project management inspired ARETE to develop the Risk Assessment Profiler (RAP), a risk management system that helps portfolio project teams identify and manage risks throughout a project's lifespan. RAP is a web-based, multi-user platform that provides thorough project insights and encourages key constituent collaboration. The system uses a checklist methodology that identifies risk categories, elements, and mitigation considerations. It also allows users to perform a schedule risk analysis and administer a risk register. While other tools tend to be complicated and overwhelming, RAP is easy-to-use and efficient. As a result of this innovative technology, comprehensive risk assessments can be completed **WITHIN ONE HOUR**.



your risk system an intuitive tool

ROBUST allows management to make smart, informed decisions throughout the project lifespan with comprehensive risk analytics.

EFFICIENT supports complete assessments in one hour; conduct multiple assessments throughout the project's life cycle.

INSIGHTFUL guides decisions of project managers, team members, and executives through insightful dashboards and visual tools.

ANALYTICAL calculates a qualitative risk score for the portfolio and projects, aiding in understanding of risks, leverages a project schedule for simulation.

ACTIONABLE mitigates risks by providing pre-defined mitigation considerations and automatically create a project's risk register with events and actions.

RAP STAGES

PERFORM a risk assessment, **in one hour**, using the innovative RAP assessment tool. RAP initiates its risk assessments with a checklist of all potential risk categories and elements the project may encounter throughout the various project phases. Every risk element is strategically weighted and scored to demonstrate the level of impact it may have on the project and displayed with associated risk scores per the standard risk heat map.

IDENTIFY the risks throughout the life of the project. RAP performs in-depth analysis to easily identify the areas of the project most at risk. The RAP approach provides valuable insight to the project team, empowering them to make key decisions and stay within the budget and schedule. Overall, RAP is able to identify potential risks before they occur – allowing the project team to always be informed one step ahead.

ANALYZE the schedule and budget impacts on the project. Import the project schedule and budget to analyze the tasks that are most likely to exceed their baselines. RAP leverages Monte Carlo simulation techniques to provide optimistic, most likely, and pessimistic distribution probabilities. The results are displayed in various interactive charts and graphs to provide a better understanding of the project and portfolio risks.

MITIGATE potential risks before they impact your project. Staying ahead of potential risks and responding accordingly is a key foundation of a successful project. RAP provides predetermined mitigation considerations for each potential risk event during the assessment. Utilize the RAP Risk Register to automatically create the risk register from the assessment and successfully manage the risk events and maximize the efficiency of the project.

