

# Rangal™ Platform

## Software Infrastructure Driving Great Decisions

Rangal is SmartOrg’s software platform for building solutions that drive great portfolio decisions. It’s built around the specific capabilities organizations need to evaluate, prioritize and optimize projects and portfolios.

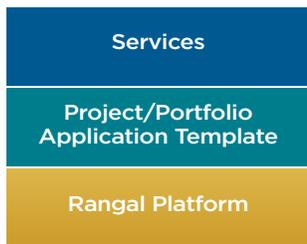
### What Makes Decision Conversations Great

Some decisions are simple and straightforward, where the alternatives are well understood, the benefits are clear and the stakes are relatively low.

Decisions that deal with complexity, uncertainty and high stakes often get distorted by error and bias. Pulling all the pieces together into a great decision conversation that reliably drives the right choice is hard; doing it on a regular and ongoing basis is even harder. Rangal’s infrastructure supports applications to drive great decision conversations that find the best choices.



### SmartOrg Solution Stack



Rangal is the foundation layer of the SmartOrg solution stack. SmartOrg solution engineers build project and portfolio analysis applications on Rangal and tailor those applications to each client. Rangal supports a variety of applications, including R&D/new product innovation, mergers and acquisitions, cost cutting, long-range planning processes and capital investment. SmartOrg’s decision experts provide training, change management and advisory services to improve its clients’ capabilities.

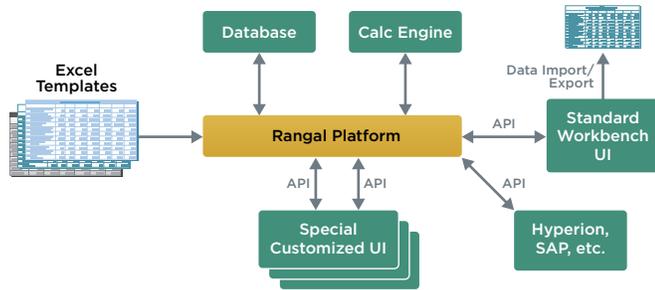
### Rangal System Architecture

**Agile Configuration and Data Collection:** Using Excel as a modeling tool, solution engineers create templates that configure Rangal into each specific application with its particular asset models and calculations. The templates guide the process of populating the Rangal database of projects, portfolios and project data.

**Powerful Modeling:** The calculation engine runs the asset models and aggregates and analyzes the results at the portfolio level. The calculation engine factors in the uncertainty

*We used SmartOrg systems to evaluate a very difficult project. The results directed our attention to work on the most uncertain issues first. The project failed early. But, because our team clearly understood the uncertainties, they were able to quickly recraft their plan. We got a second chance at bat at a very attractive opportunity. Without the SmartOrg solution, we traditionally would have spent a couple of years pursuing a flawed plan, wasting millions before winding the project down.*

of each project parameter and supports commands to evaluate project and portfolio value, examine uncertainty ranges, and run what-if scenarios. It evaluates opportunities on a level playing field, regardless of size or risk.



**Intuitive User Interface:** Rangel’s standard workbench UI provides default presentation, graphing and reporting formats, and lets users import and export data to Excel. The Rangel platform can also exchange data (import and export) with financial information systems. If you need other custom UIs, use the Rangel API to build them.

**A Rich Feature Set**

The Rangel platform’s features make it a flexible, familiar foundation for decision analysis applications.

**FLEXIBLE**

**Agile:** Rangel lets SmartOrg build tailored solutions with a lean, rapid prototyping approach. This enables you to get up and running with live data and real analysis quickly.

**Turnkey or tailored:** While you can have our solution engineers customize your application’s interface, Rangel’s standard UI will get you up and running quickly.

**Extensible:** Rangel’s API powers the design of custom extensions to Rangel-based analysis applications.

**Adaptable:** Rangel uses templates to adapt the system to your processes, rather than forcing you into a one-size-fits-all approach.

**FAMILIAR**

**Decision focused:** Rangel produces analysis, reports and displays that are designed expressly to drive the decisions you need to make.

**Excel:** Rangel supports sending data round-trip from Excel to Rangel to Excel, so you can adapt your pre-existing Excel modeling, analysis and reporting tools.

**Powerful built-ins:** The standard workbench user interface includes a robust set of default formats for data display and reporting.

**Responsive:** Rangel’s responsive design reshapes itself to each display’s form factor, whether desktop, laptop or tablet. The information presentation remains clear and concise.

**FOUNDATION**

**Enterprise ready:** Rangel supports multiple users with role-based security. Roles include administrators, contributors and viewers.

**Scalable:** Rangel can scale to analyze strategic portfolios of all sizes. Evaluate 10 or 10,000 projects with equal facility.

**Secure:** SmartOrg uses state-of-the-art hosting inside a firewall with ISO certifications that exceed best-practice standards. We will also support internal on-premises hosting.

**Connected:** Rangel provides rich tools to enable you to export data from Rangel to your other systems, or to import data from your systems into Rangel.

**Extending the Capabilities of Traditional Modeling Tools**

Rangel uses Excel as the specification language for modeling, and as an interface for data exchange and formatting. Rangel keeps the familiarity and simplicity of Excel and extends its capabilities into an enterprise-class web system:



Rangel **commands** add functionality to models, like uncertainty analysis, optimization, and tracking the history of inputs.

Rangel allows **aggregation and comparison** of many models, with multiple data views under different scenarios.

Rangel includes a **web system** and **support processes** to support your organization and its processes.



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SmartOrg software and professional services provide executives with decision-making solutions they can depend on when investments are risky and rewards are uncertain. Our decision technology has helped Fortune 500 companies deliver breakthrough value for over 15 years.

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