

Responsible Resource Development



RTI International’s comprehensive Responsible Resource Development (RRD) service reduces risks and improves outcomes on complex resource-related projects. Drawing upon our expertise across hundreds of technical disciplines, RRD provides evidence-based results that benefit both the bottom line and the human condition.

The Challenge

A growing global population requires increasingly more economy-building resources such as minerals, metals, fuel sources, commodity chemicals, and water. In turn, the need for more resources results in larger, more complex “megaprojects” that are often executed in challenging locations. Such megaprojects frequently suffer challenges such as budget and schedule overruns, negative environmental and social impacts, regulatory and governance issues, and other difficulties that can cripple a project throughout its lifecycle and harm the reputation and performance of the parent company.

Many of the issues that can affect project performance lie outside of the technical aspects of project planning and execution. Yet the burden of resolution often falls onto the technical project team and others who may not have sufficient time or resources to address the social, political, environmental, and economic risks that threaten project success.

The RRD Solution

RTI’s RRD solution identifies and prioritizes the needs of various affected stakeholder groups and generates a risk/reward-balanced **impact portfolio** of related projects. The impact portfolio enhances the resource project by maximizing local economic growth and building local capacity, while minimizing any potential negative environmental and social impacts (see Figure 1).

RTI will demonstrate return on investment (ROI) for the impact portfolio, making it possible for the parent company to expand the value created beyond its original project and ensure that sustainable business and capacity-building solutions remain in the region.

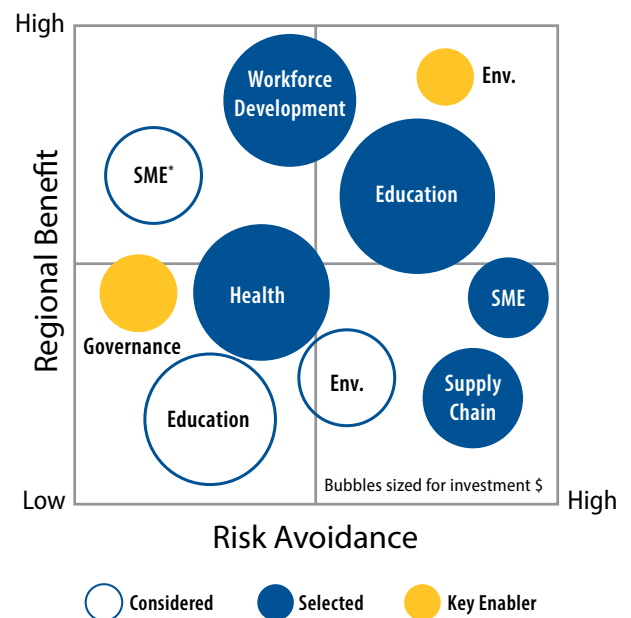


Figure 1. An impact portfolio maximizes the creation of value in a risk-reward-balanced manner that meets regional needs and the availability and timing of investment funds.

* SME = small- and medium-sized enterprises

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Delivered as an integrated solution, RRD tools are woven into the project lifecycle from pre-feasibility through planning, development, operation, and even decommissioning. Our approach is customized to the needs of a given project and typically includes the following services:

- Baseline analysis
- Risk identification, mitigation, and management
- Longitudinal data collection and analysis
- Monitoring and evaluation
- Periodic benchmarking
- Data integration.

By focusing on qualitative and quantitative information from both primary and secondary data sources, RRD provides a rich, efficient, and robust approach to gathering, monitoring, and applying critical data (see Figure 2).

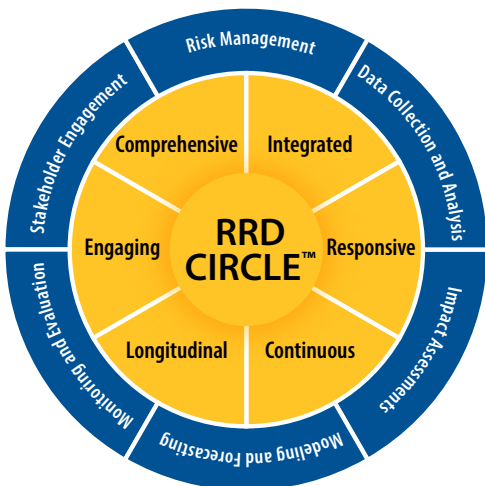


Figure 2. The RRD CIRCLE™ framework leverages expertise from across RTI to maximize the value generated by the impact portfolio. It is applied across the lifecycle of the host project to support a successful outcome for all stakeholders.

The Responsive Design Approach

In addition to the specific RRD tools, capabilities, and competencies, our approach is responsive to new and continuing information, resources, and challenges. Because we apply this approach to each phase of the project, our responsive design is cyclical rather than linear. This allows

project leaders to proactively anticipate and plan for challenges and opportunities and fully integrates information sources to create value across stakeholder groups. Dashboard-style monitoring and reporting provide constant feedback on the performance of the impact portfolio, while fostering transparency between the RRD team and the client.

What Makes RRD Different?

RTI's RRD solution offers comprehensive expertise to address project-specific social, environmental, and governance-related challenges, in addition to the issues that are inherent to planning and managing large resource projects. With RRD, clients have access to more than 3,700 RTI professionals—including scientists, researchers, and managers—from a range of relevant disciplines and areas. Combining the skills of social scientists, environmental scientists, economists, research managers, statisticians, development experts, and workforce and education researchers allows for unrivaled analytical teams focused on solving your project's unique problems.

An independent research institute, RTI International employs an evidence-based approach to solving the complex social and scientific challenges facing our clients and the people and communities they serve. Since 1958, we have continuously expanded our expertise in social and laboratory sciences, engineering, and international development for the purpose of improving the human condition. Leveraging RTI's demonstrated success conducting projects in more than 75 countries, RRD offers an integrated solution to even the most difficult megaproject challenges.

More Information

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