



## SEI Mosaic

# Rethinking Risk Management

Although most programs and organizations implement some type of risk management approach, preventable failures continue to occur. In addition, many approaches for managing risk tend to be bureaucratic and time-intensive, which can consume valuable program resources. Many programs would benefit by improving, or in some cases, replacing their current risk management practices. The SEI Mission Success in Complex Environments project develops practical and innovative methods, tools, and techniques for measuring, assessing, and managing program risks.

The project team is currently developing SEI Mosaic—a suite of methods that can be used to manage risk across the life cycle and supply chain. Mosaic enables decision makers to more efficiently engage in the risk management process, navigating through a broad tradeoff space (including performance, reliability, safety, and security considerations, among others) and strategically allocating their limited resources when and where they are needed the most. Mosaic product and service offerings are described below. This suite includes courses, workshops, and evaluation methods.

Mosaic Features	Your Benefits
<b>Straightforward and easy to apply</b>	Mosaic provides you with a refined, uncomplicated, results-oriented way to manage risk. With its focus on mission assurance, this practical methodology is not bureaucratic or time-consuming which allows you to focus on making effective business decisions.
<b>Across the board view of risk</b>	Using Mosaic enables you to get a comprehensive, holistic view of your program's risks. By more effectively characterizing your risks, you can strategically allocate resources, make better tradeoff decisions, and position your program for success.
<b>Fully scalable</b>	Mosaic easily scales to multi-system and multi-enterprise environments. This efficient scalability helps you catch preventable failures across the life cycle and supply chain. Plus, you only use one method to manage multiple types of risk (project, security, process, others).
<b>Incorporates easily with existing infrastructures</b>	Mosaic is not meant to be a standalone approach, so its methods and tools can be integrated seamlessly into your program management to help you manage risk as part of normal day-to-day activities. Such assimilation provides you with not only a broad view of risk, but also helps you coordinate management and communication efforts and make more effective business decisions.
<b>Focus on success</b>	By maintaining a focus on success, Mosaic helps you gain confidence that you will achieve your overall mission objectives. With such focus, it becomes easier to strike the proper balance between risk and opportunity, and ultimately helps you realize your goals.
<b>Top-down analysis</b>	By analyzing from the top down, Mosaic helps you develop a comprehensive view of risk. Using a systemic risk management approach enables you to develop and implement strategic, high-leverage mitigation solutions that align with your mission and objectives.

Whether you are working in a systems-of-systems, multi-program, or single-program environment, our tools and methods can help you make the paradigm shift to systemic risk management. Or, we can also help you improve your current approach.

## How We Differ from Our Competition

<b>Practical</b>	<i>Competitor methods:</i> Are bureaucratic and time-intensive <i>Mosaic methods:</i> Are straightforward and easy to apply
<b>Broad Tradeoff Space</b>	<i>Competitor methods:</i> Only assess a small subset of all risks <i>Mosaic methods:</i> Provides a comprehensive assessment of risk based on mission and objectives, providing confidence that all major risk factors are considered
<b>Flexible</b>	<i>Competitor methods:</i> Are hardwired for application to a very narrow problem space <i>Mosaic methods:</i> Are easily tailored, allowing them scale across the life cycle and supply chain
<b>Easily Integrated</b>	<i>Competitor methods:</i> Are stand-alone approaches <i>Mosaic methods:</i> Are designed to integrate with existing program management practices
<b>Success-Oriented</b>	<i>Competitor methods:</i> Use risk management to prevent failure <i>Mosaic methods:</i> Use risk management to assure that a program is on track for success
<b>Systemic</b>	<i>Competitor methods:</i> Lead to the development of numerous point solutions <i>Mosaic methods:</i> Result in strategic, high-leverage solutions that align with mission & objectives

## Mosaic Products and Services

The Mosaic courses, workshops, and evaluation services enable decision makers to more efficiently engage in the risk management process, navigating through a broad tradeoff space (including performance, reliability, safety, and security considerations, among others) and strategically allocating their limited resources when and where they are needed the most.

### ***Risk Management Framework: Best Practices in Risk Management***

This one-day on-site course raises participants' awareness of what constitutes good risk management practice.

### ***Introduction to Practical Risk Management***

This one-day on-site course presents a practical method for assessing and managing program risks using 20 common drivers of program risk.

### ***Practical Risk Management: Framework and Methods***

This two-day public course combines the one day courses described above. It presents a framework that describes best practices in risk management and highlights a practical method for assessing and managing program risks using 20 common drivers of program risk.

### ***Risk Management Course with Follow-on Workshop***

Delivery of any Mosaic course followed by a customized on-site workshop.

### ***Risk Management Tailoring and Improvement Workshops***

Customized workshops designed to help participants solve customer problems related to risk assessment and risk management.

### ***Systemic Risk Evaluation***

An evaluation used to assess an acquisition or development program's risks.

### ***Mission Success Evaluation***

An evaluation used to determine an acquisition or development program's chances for success.

### ***Risk Management Framework Evaluation***

An evaluation that focuses on the core requirements of an effective risk management practice.

### ***Custom Evaluation***

An evaluation tailored for unique environments when an off-the-shelf solution does not apply.

## For More Information

Visit our web site at <http://www.sei.cmu.edu/risk>

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