

Workshop Title

Integrated Project/Program Management (IP2M) Maturity and Environment Total Risk Rating (METRR): Enhancing Complex Capital Project Performance

Speaker

David Grau

Sundt Construction
Professor & Professor,
**Del E. Webb School
of Construction**
Arizona State University



Course Overview

How confident are you that your EVMS is helping to proactively manage risk and performance? In this interactive workshop, participants will be introduced to the Integrated Project/Program Management (IP2M) Maturity and Environment Total Risk Rating (METRR), a rigorous framework for assessing the effectiveness of Earned Value Management Systems (EVMS) in large, complex capital endeavors. Participants will learn how to evaluate EVMS implementation, identify performance risks, and prioritize opportunities for improvement. With practical examples, the workshop will also highlight how IP2M METRR assessments result in statistically significant cost and schedule impacts, demonstrating the value of strengthening EVMS execution through IP2M METRR.



Attendees will examine the novel concepts, tools, and processes for IP2M METRR assessments and their statistically significant relationship with project/program performance. Real-world examples will be used to gain hands-on experience during the Workshop.

By the end of the Workshop, participants will understand the requirements to:



Explain the novel sociotechnical concept of environment and its influence on performance.



Learn how IP2M METRR is being used to anticipate and enhance cost and schedule outcomes.



Define the step-by-step IP2M METRR implementation process.



Grasp how Large Language Models support automation in IP2M METRR assessments and root cause type of analyses.



Justify the importance of the facilitator's role during assessments.

Agenda

Opening

09:30 – 10:00

Welcome and Objectives

Understand the workshop's goals and agenda. Provide a brief overview of the workshop.

- Define the elements of the workshop's objectives and schedule, and provide an overview of the key takeaways
- Introductions (participants, backgrounds, expectations) and introduce a couple of icebreaker polls (analytics maturity, tools used)

Module 1

09:30 – 10:00

Motivation

Recognizing the prevalent deviations in complex capital efforts and the opportunity of sociotechnical approaches to address performance gaps. Many organizations invest heavily in EVMS compliance yet continue to experience cost overruns, schedule delays, and poor decision-making. Research studies will be used to exemplify and quantify the prevalent deviations in complex capital efforts. A sociotechnical systems approach has been proposed as the theoretical underpinning to address performance issues.

- Exemplify endemic deviations through multiple studies
- Quantify poor mega-project performance
- Justify a sociotechnical lens for addressing prevalent assessment gaps and corresponding performance issues

10:00 – 10:20

Break

Module 2

10:20 – 11:00

IP2M METRR Basics

Introducing the IP2M METRR framework and concepts. This module explains how IP2M METRR was developed and its concepts of maturity and environment.

- Justify IP2M METRR through its development history
- Differentiate between maturity and environment
- Define maturity sub-processes and attributes
- Define environment categories and factors

Module 3

11:00 – 12:00

Processes and Tools

Evaluating Maturity and Environment. Attendees will learn how to evaluate the environment through its categories and factors, and maturity through its sub-processes and attributes. Step-by-step guidance, tools, and processes will be identified.

- How to evaluate and score Environment
- How to evaluate and score Maturity
- Identify step-by-step processes and tools

12:00 – 13:00

Lunch Break

Agenda

Module 4

13:00 – 14:00

IP2M METRR Practice

Experience the power of IP2M METRR. Based on a real case scenario, use the fundamental concepts within IP2M METRR to identify critical performance issues and provide recommendations to address performance.

- Implement the concepts of maturity and environment to identify critical performance issues
- Discuss steps to mitigate the risks associated with the identified issues
- Discuss stakeholder participation to generate a paradigm shift in the team dynamics

Module 5

14:00 – 14:45

Impact & Implementation

Justify the research-validated impact of IP2M METRR on performance and explain its implementation. Explain how research has statistically validated the impact of IP2M METRR on complex project/program performance. Justify the scope and implementation of IP2M METRR assessments.

- Justify the validity, reliability, and generalization of IP2M METRR
- Quantify the IP2M METRR impact on performance
- Explain the correlation between environment, maturity, and performance
- Define the scope of IP2M METRR use
- Detail the implementation of IP2M METRR assessments

14:45 – 15:00

Break

Module 6

15:00 – 16:00

Facilitation and Problem-Solving Techniques

Facilitating IP2M METRR assessments. Explain the role and influence of a facilitator. Leverage individual behavior traits to prevent, forecast, and address facilitation issues as they happen. Propose solutions to real-problem facilitation issues.

- Define the role of a facilitator
- Justify the importance of communication
- Identify individual behaviors and their impact on facilitation/assessments
- Propose solutions to facilitation problems
- Explain the Facilitator Certification Program

Module 7

16:00 – 17:00

Large Language Models and Root-Cause Analyses

Defining the latest IP2M METRR developments through the use of Large Language Models and root cause analyses. Learn how to harness the power of LLMs and AI agents to semi-automate IP2M METRR assessment and identify the root causes of performance.

- Define the application of sentiment analysis to IP2M METRR assessments
- Develop prompt engineering skills to extract structured outputs from unstructured inputs
- Explain the root causes of performance

Agenda

Closing

17:00 – 17:30

Final Q&A and Closing Remarks

Recap of major concepts.

- Recap on major concepts and learning outcomes
- Participant feedback and networking opportunity
- Final Q&A

What you'll get:

- Explain the interrelationship between maturity, environment, and performance.
- Interpret IP2M METRR assessment results and discuss their correlation with performance.
- Plan assessment methodologies for real project/program scenarios.
- Justify the importance of evaluating the root causes of EVMS technical performance issues.
- Exemplify the influence of the facilitator's role during IP2M METRR assessments through behavioral analysis and problem-solving techniques

Who Should Attend:

This program is designed for mid to senior-level delegates who want to develop a deeper understanding of integrated project and program management leading to enhanced performance of complex capital efforts.

Prerequisites:

Based on the bootcamp agenda, which includes foundational theory, practical applications, and statistics, the recommended level of attendee expertise should be intermediate, with flexibility at both ends. Attendees should have:

- An understanding of EVMS and working components (cost, schedule, risk, etc.)
- Experience with large/complex projects or programs
- Familiarity with team dynamics

The prerequisites ensure that attendees can meaningfully participate in discussions and hands-on exercises to enhance their learning journey and promote a deeper understanding of how IP2M METRR assessments impact project performance.



Sponsored By



BOOK NOW!

**Individual | Corporate Discounts &
Group Booking Available**

www.projectcontrolexpo.com/usa