



# IPA-MIMOSA OIE Capital Project Working Group Update to Members- 3/10/2021

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## Open Industrial Interoperability Ecosystem (OIIE) Capital Project Working Group

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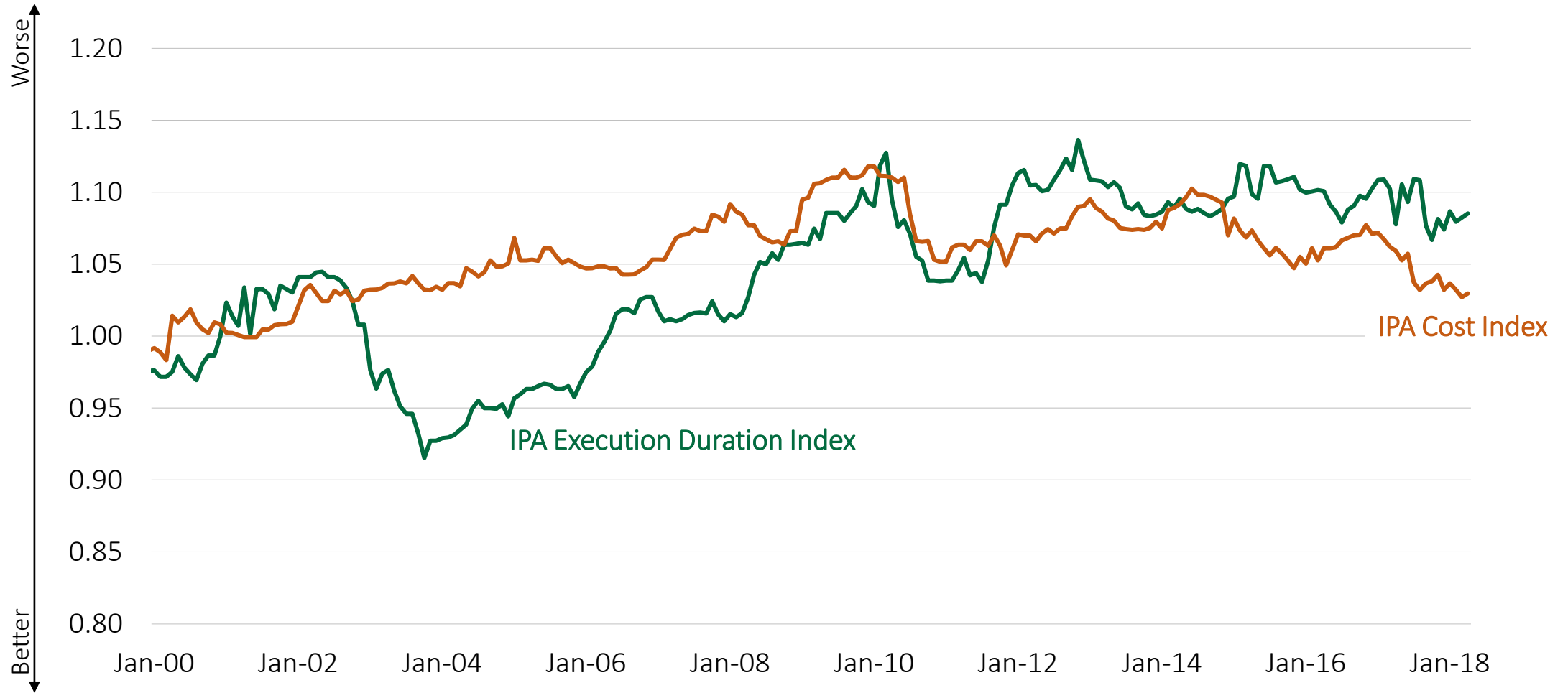
Independent Project Analysis (IPA) and MIMOSA (industry trade association dedicated to the development and adoption of information technology and information management standards) are proud to announce the formation of the *Open Industrial Interoperability Ecosystem (OIIE) Capital Project Working Group*.

This working group will meet **monthly** to help align the efforts of owner companies; engineering, procurement, and construction (EPC) firms; industry standardization organizations (e.g., IOGP/CIFHOS, ISA, MIMOSA) and international standards organizations (ISO, IEC, etc.). All participants will work together to set the owner/EPC firm priorities for solution delivery to enable pragmatic industry digital transformation on a timely basis.

Whether your company's digitalization goals are productivity improvements, capital efficiency, advanced work packaging, facility hand-off to operations, or digital twins, etc., **interoperability between the many players in the asset life cycle is a key success component**. Historically, **interoperability has been difficult to achieve** due to a lack of alignment throughout the industry between owner/operators, EPC firms, material and service suppliers, and subject matter experts. The IPA-MIMOSA hosted initiative **seeks to solve this issue** for the benefit of all industrial sectors moving forward.

# Capital Efficiency Has Not Improved in the Projects World

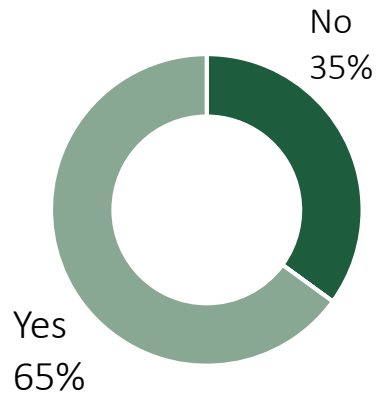
## Is Digitalization the Answer?



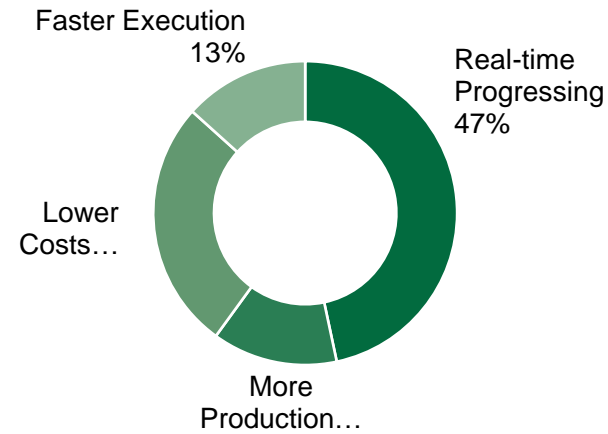
\* Indices are inflation adjusted

# Capital Projects Industry – Digitalization Status

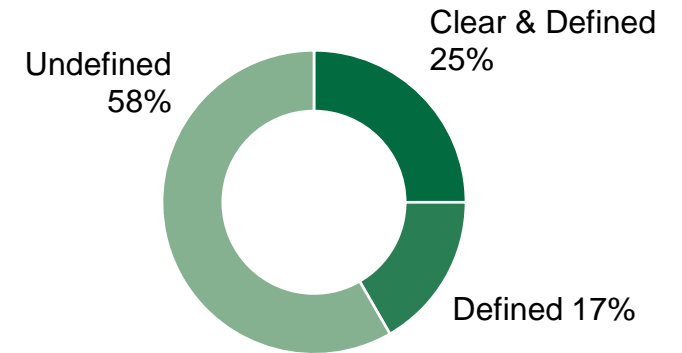
Digitalization Project Underway?



What Problem Are We Trying to Solve?



Are Digitalization Objectives Clear?

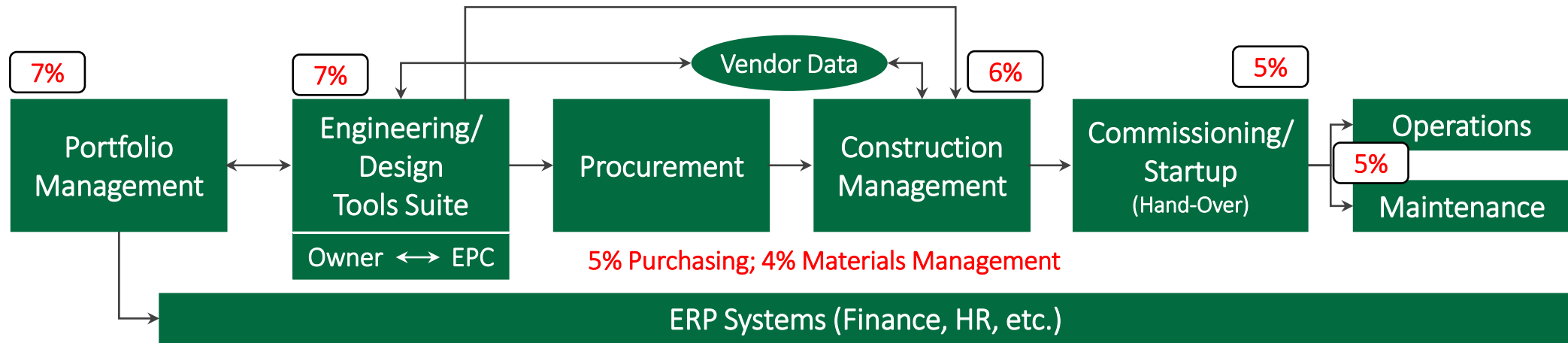


- Clear:** Objective has direct link toward business goals
- Defined:** Outlined objective, but indirect links to business objectives
- Undefined:** No specific objectives yet identified

No common definition of what “Digitalization” means to the capital projects industry.

# We are fragmented on our digitalization focus...

July 2020 survey - 185 Digitalization projects are dispersed across the entire project life cycle



## Key Support Systems

8% Document Management

8% Project Controls

7% Performance Metric Systems

4% ERP Systems

7% Project Management

9% Data Management

7% Data Exchange/ Interfaces

5% Digital Twins

# Activities To Date

Begin Monthly Meetings

Kick-off  
11-4-20

Meeting #2  
12-17-20

Meeting #3  
2-22-21

Sub-Team  
Meetings 3/9/21

Meeting #4  
3-16-21

Participation	#
Invited	380
Registered	218
Attended	103

Participation	#
Invited	380
Registered	79
Attended	34

Participation	#
Invited	380
Registered	188
Attended	111

Participation	#
Invited	290
Registered	111
Attended	40

Participation	#
Invited	290
Registered	138
Attended	

So Far

- Charter Review
- Challenge Description
- Methodology Overview
- Initial Opportunity Identification

- Detailed Methodology Presentation
- Detailed Brainstorming Breakouts
- **180 Opportunities ID'd**

- Detailed Methodology Presentation
- **Began work on Top 3 Opportunities** (Breakouts)

- **Continued work on Top 3 Opportunities in Sub-teams**

~57 Owner Companies  
Across Multiple Industries

## Sub-Teams Formed

Early  
Project

Mid  
Project

Late  
Project

### Early Approval Processes

- ✓ **Cost Estimating**
- Basic Engineering & Simulation

### Supply Chain/Procurement

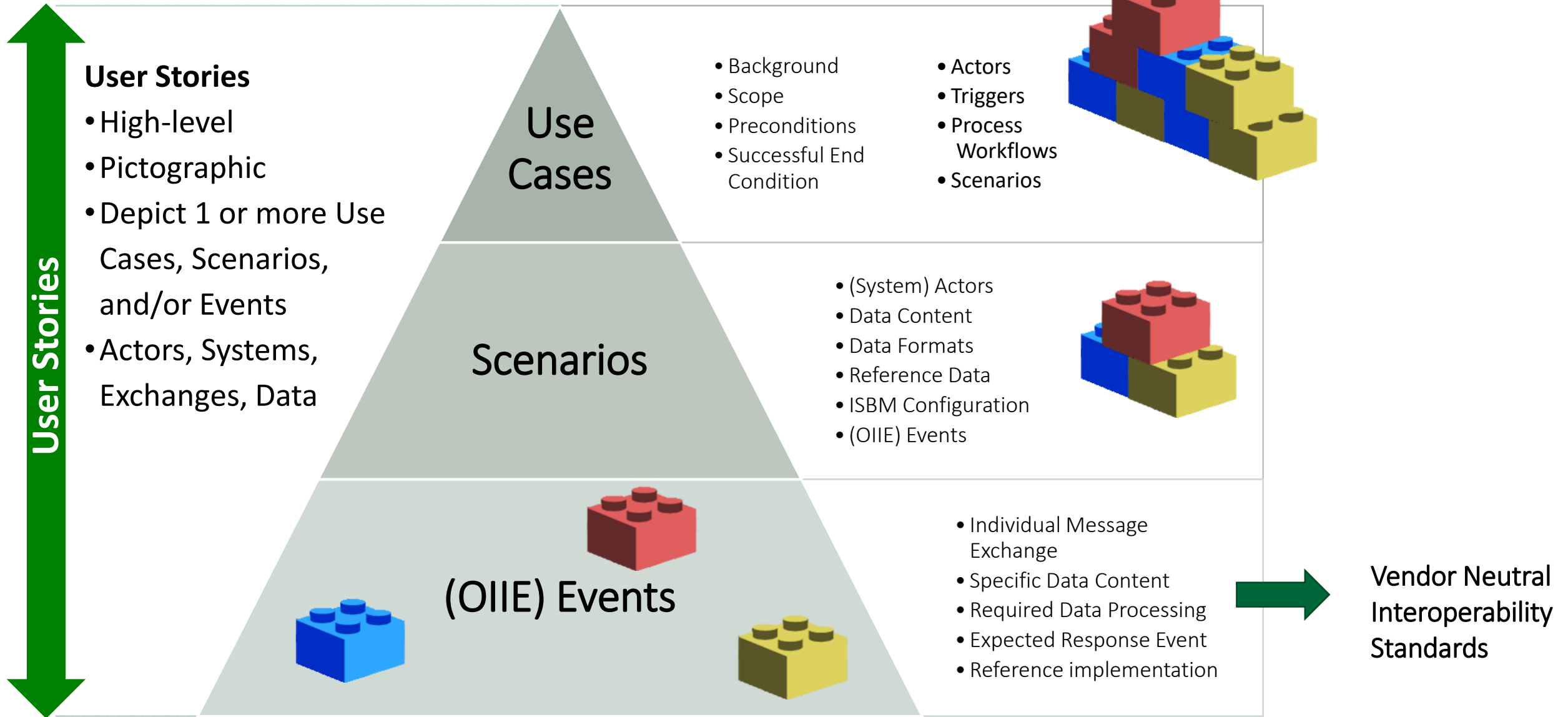
- ✓ **RFI/RFI Response**
- Purchasing

### As-Built Digital Twins

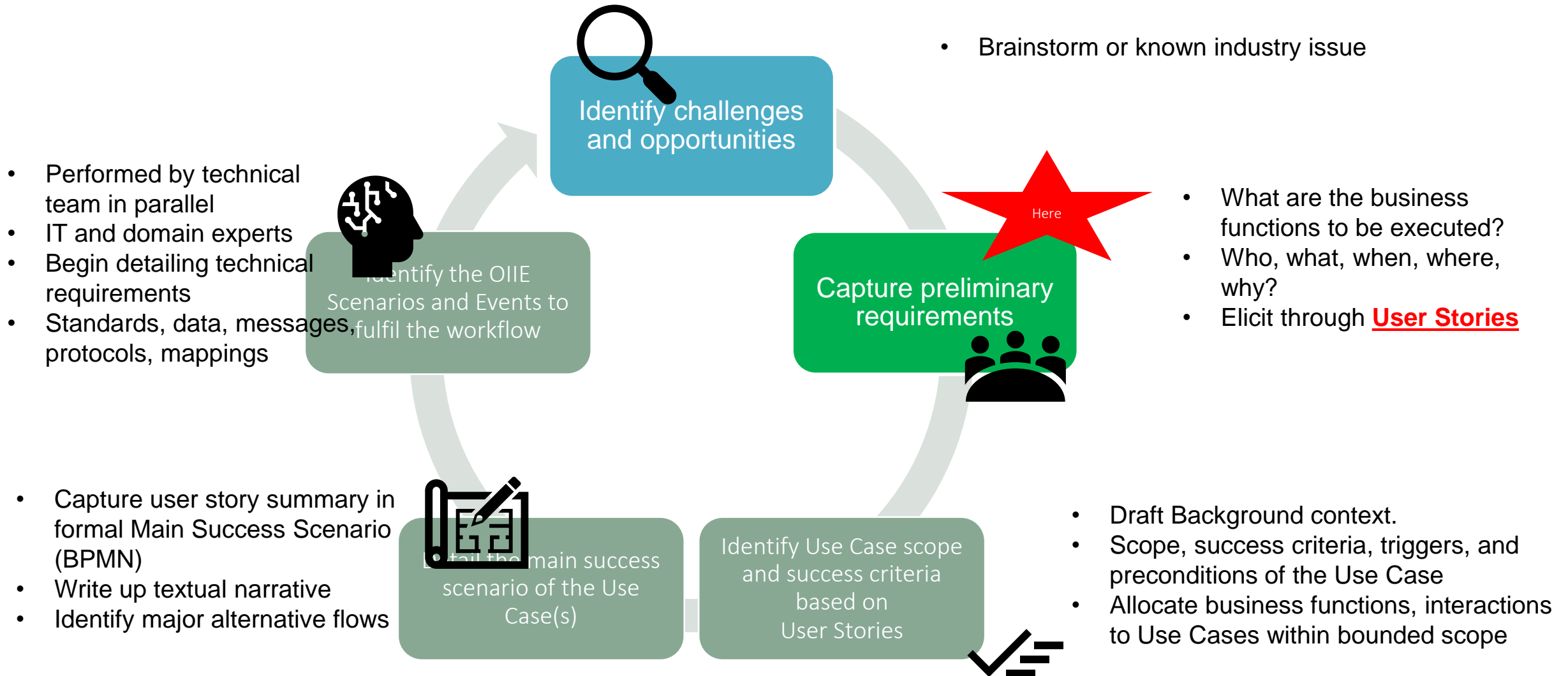
- ✓ **Capital Project Asset Installation**
- AWP CWPs and IWPs?



# Standard OIIE OGI Use Case Methodology



# OIIE Use Case Development Process





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