

IPA-MIMOSA OIIE Capital Projects Working Group 5-17-22 Meeting Minutes

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OIIE Capital Project Working Group: 5-17-22 Meeting Agenda

- Sub-team updates:
 - Cost Estimating
 - RFI/ RFI Response
 - Asset Installation
- OIIE Pilot Update/ 2022 Plans
- Key Issue Discussion:
 - SURVEY
 - What are our 2022 Priorities?
- Define OIIE Capital Project WG Next Steps

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

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 **interoperability** solution delivery to enable pragmatic industry digital transformation on a timely basis.

Meeting Slides For all Previous Meetings Can Be Found on:

<https://www.ipaglobal.com/services/digitalization/digitalization-working-group/>

SERVICES

Digitalization Working Group

Home > Services > Digitalization > Digitalization Working Group

Advancing The Capital Projects Industry's Digitalization Efforts

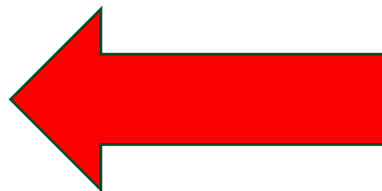
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MEETING ARCHIVE

- April 21, 2022 – [Recording](#)
- April 19, 2022 – [Recording](#)
- February 15, 2022 – [Meeting Minutes](#) | [Recording](#)
- November 17, 2021 – [Meeting Minutes](#) | [Recording](#)
- October 19, 2021 – [Meeting Minutes](#) | [Recording](#)
- September 28, 2021 – [Meeting Minutes](#) | [Recording](#)
- August 17, 2021 – [Meeting Minutes](#) | [Recording](#)
- July 20, 2021 – [Meeting Minutes](#) | [Recording](#)
- June 15, 2021 – [Meeting Minutes](#)
- May 18, 2021 – [Meeting Minutes](#)
- April 20, 2021 – [Meeting Minutes](#)
- March 16, 2021 – [Meeting Minutes](#)
- February 16, 2021 – [Meeting Minutes](#)
- December 17, 2020 – [Meeting Minutes](#)
- November 4, 2020 – [Meeting Minutes](#)



If you missed these meetings – take a look – lots of good things going on



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Review of MIMOSA Open Meeting



**Open Standards for Interoperability and Digital Transformation
in Asset Lifecycle Management**

MIMOSA 2022 Open Meetings

April 19 and 21, 2022

Key Themes

- Who Owns Your Digital Twins?
- Can they be maintained and used by your key applications in an interoperable manner?
- The Open Industrial Interoperability Ecosystem (OIIE) and ISO 18101 provide the specifications and methodology to enable system of systems interoperability

- Advantages:
 - Supplier-neutral, standards-based interoperability across functions and companies
 - Pragmatic, Adapter-based approach to incorporate existing applications and systems
 - Flexible and adaptive, enabling collaboration with many suppliers and systems
 - Data Standards are based on long-standing industry practices
 - Included IM, IS, and IT Standards and Specifications are validated fit for purpose with the OIIE OGI Pilot and the OIIE Interoperability Lab
 - MIMOSA OSA-CBM/ISO 13374 - Most broadly used standard for CBM (Globally) – Show Bing Search
 - OIIE Specified by Queensland Department of Transportation and Main Roads in public tender- It's Real

Agenda – April 19, 2022

- 6:00 AM – Meetings Open and Welcome
- 6:10 AM – Deb McNeil IPA – OIIE Capital Projects WG
- 6:25 AM – OIIE OGI Pilot Update – Dr. Matt Selway and Dr. Karamjit Kaur
- 7:15 AM – Rick Leonard: INCOSE – **Systems of Systems and Interoperability**
- 7:35 AM – Chris Monchinski – ISA/OpenO&M
 - **Key Collaboration for Operations and Maintenance OIIE Use Cases**
 - **OpenO&M/OIIE ISBM 2.1 Specification and Digital Service Directory**
 - **Will hold meeting at ARC Forum in Orlando, FL June 6-9**
- 7:55 AM – April 19 Closing Comments

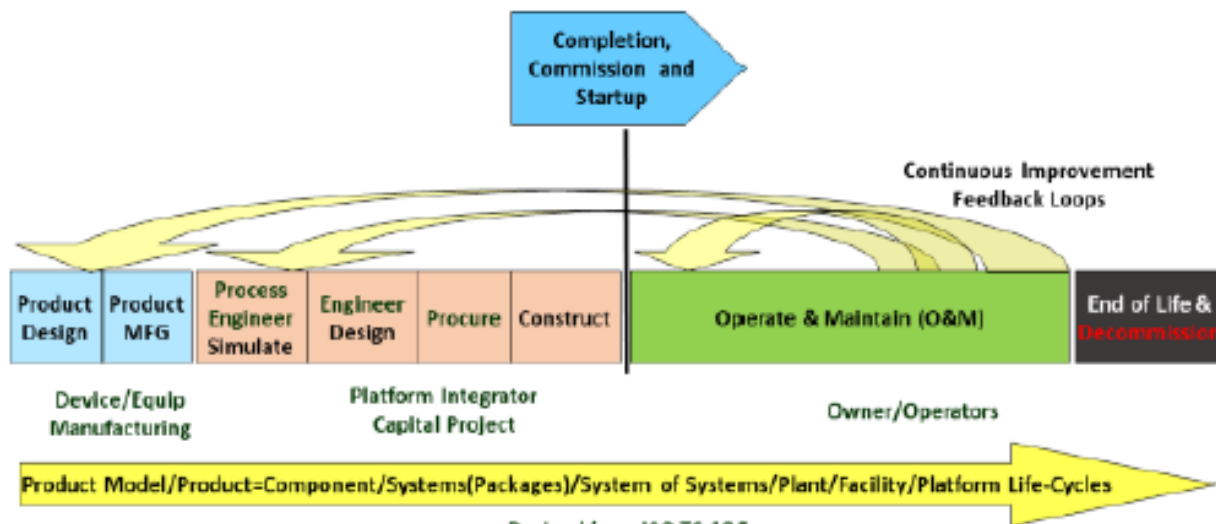
2022 MIMOSA Open Meetings Agenda for April 21

- **6:00 AM – Meetings Open and Welcome**
- **6:05 AM – University of South Australia Industrial AI Dept – OIIE Lab**
 - OIIE Capital Project Asset Installation Use Case and IWP
 - FEnEx CRC Analytics Project Update
- **6:35 AM – Joe Mathew - Asset Institute**
 - Multiple SIGs planning to use OIIE
 - New Energy, Transportation, Water/Flooding
- **6:50 AM – Don Sands - OIIE Australian WG**
- **7:00 AM – Erik Molin – SEIIA**
- **7:15 AM – Arto Marttinen - THTH – Planning an OIIE Pilot in early 2023**
- **7:30 AM – Pak Wong – OIIE CBM Use Case and MIMOSA OSA-CBM – EU Projects**
- **7:45 AM – Dale Williams/Alan Johnston - CII/MIMOSA JWG – Capital Projects**
- **7:55 AM – Discussion and Closing Comments**

Digital Transformation, Digital First and AI

- Business Strategy and Plan to include **Digital First** paradigm
- Deploy vendor neural digital ecosystem instance – leverage OIE Digital Clusters
- Establish digital infrastructure/digital twin for digital/human collaboration in Hydrogen Cluster Research, Development and Deployment

Full Asset Life-cycle Management



Derived from ISO TC 184
Manufacturing Asset Management Integration Task Force Final Report
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Industrial Digital Transformation – 2022 and Beyond

A Pragmatic Solution: Standards-based Interoperability and the OIIE

OIIE R&D Program

Industry Requirements Driven OIIE Use Cases
OIIE OGI Pilot Program

Open Industrial
Interoperability
Ecosystem (OIIE)
ISO 18101

Supports/Standardizes

- Digital Twins
- Digital Services
- Systems of Systems
- Interoperability
- AI, Ontology, OTDs
- ID Management
- IIOT and Analytics
- Risk Mgt: Ops & Cyber

Model, Monitor and Manage

MIMOSA has helped lead the development of the Model Driven Architecture for Physical Asset Management Paradigm for 20+ yrs.

Industry Standard Digital Ecosystem Components

- Standard OIIE Use Cases, Scenarios & Events
- Standard OIIE Digital Services Definitions
- Standard OIIE APIs (OpenO&M ISBM)
- Standard OIIE Registers and Services Directories
- Standard Data Models (MIMOSA CCOM, PROTEUS...)
- Standard Message Models
- Standard Reference Data
- Standard OIIE Adaptors

Sub-teams 3– RFI/ RFI Response

MIMOSA Open Meeting 2022 Feedback

- OIIE Purchasing Use Case Demo Feedback
 - OIIE messages define what needs to be exchanged in an interaction
 - Independent of how are these contents populated in any organisation's software implementations
 - Manual typing – intent was to focus on the fields sent in RFQ exchange
 - Fields can be populated in an automated fashion
 - Attaching documents manually to RFQ
 - Can be attached automatically through document management systems

MIMOSA Open Meeting 2022 Feedback Contd.

- OIIE Purchasing Use Case Demo Feedback

- *Can I continue to use existing Requisition system and just exchange the Data Sheet and VIRF information?*

Yes, standards based OIIE adaptor can work on top of existing integrations to enable interoperable interactions with the external suppliers

- Demonstrate RFQ/RFQ Response for Tag
- Include meta-data for Documents exchanged during RFQ/RFQ Response

OIIE Purchasing Use Case Sub-team Update

- On-going discussion around processes used in different organisations after RFQ evaluation and sending PO
- On-going discussions on data contents sent in Purchase Order and received in PO Acknowledgments
- Referencing existing standards and specifications like OAGIS and UBL for determining data contents
- Include information received in VIRF/IRS in the RFQ Response when sending out PO by attaching due dates to documents agreed by Supplier

THANK YOU