

# IPA-MIMOSA OIIE Capital Projects Working Group Meeting #12 – 11/16/2021 Meeting Minutes

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# OIIE Capital Project Working Group Leaders

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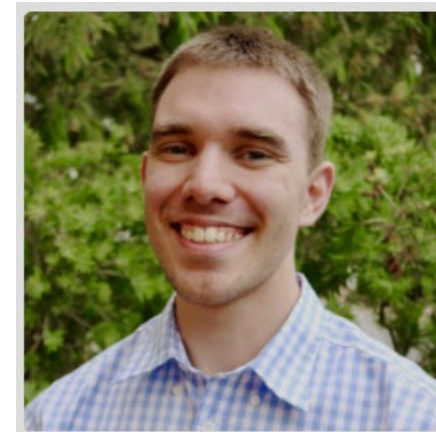
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# OIIE Capital Project Working Group: 11-16-2021 Meeting Agenda

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- Share the OIIE Capital Project Working Group Purpose
- Sub-team updates:
  - Cost Estimating
  - RFI/ RFI Response
  - Asset Installation
- OIIE Pilot Update
- Key Issue Discussion:
  - 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 Now be Found on:

<https://www.ipaglobal.com/event/digitalization-ipa-mimosa-oiie-capital-project-working-group-meetings/>

# Interoperability Definition: ISO TS 18101-1

## Paragraph 3.1 - Terms and Definitions

### **interoperability**

capability of two or more entities to exchange items in accordance with a set of rules and mechanisms implemented by an interface in each entity, in order to perform their specified tasks

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**Note 1 to entry:** Examples of entities include devices, equipment, machines, people, processes, applications, computer firmware and application software units, data exchange [systems \(3.2\)](#) and enterprises.

**Note 2 to entry:** Examples of items include [services \(3.7\)](#), information, material in standards, design documents and drawings, improvement projects, energy reduction programs, control activities, [asset \(3.5\)](#) description and ideas.

**Note 3 to entry:** In this context, entities provide items to, and accept items from, other entities, and they use the items exchanged in this way to enable them to operate effectively together.

[SOURCE: ISO 18435-1:2009, 3.12, modified — The word “respective” has been replaced with “specified”, Notes 1 and 2 to entry have been modified and Note 3 to entry has been added.]

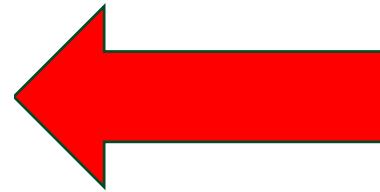
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If you are interested in participating, please click the *Register Now* button to join the group. Visit this link for more information on the [IPA-MIMOSA OIIE Capital Project Working Group](#).

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Of Web Page

### 2021 MEETING SCHEDULE

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



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Sub- Team Report Outs

Subteams 1&2 – Cost Estimating –  
(Von Gusa/ Luke Wallace)

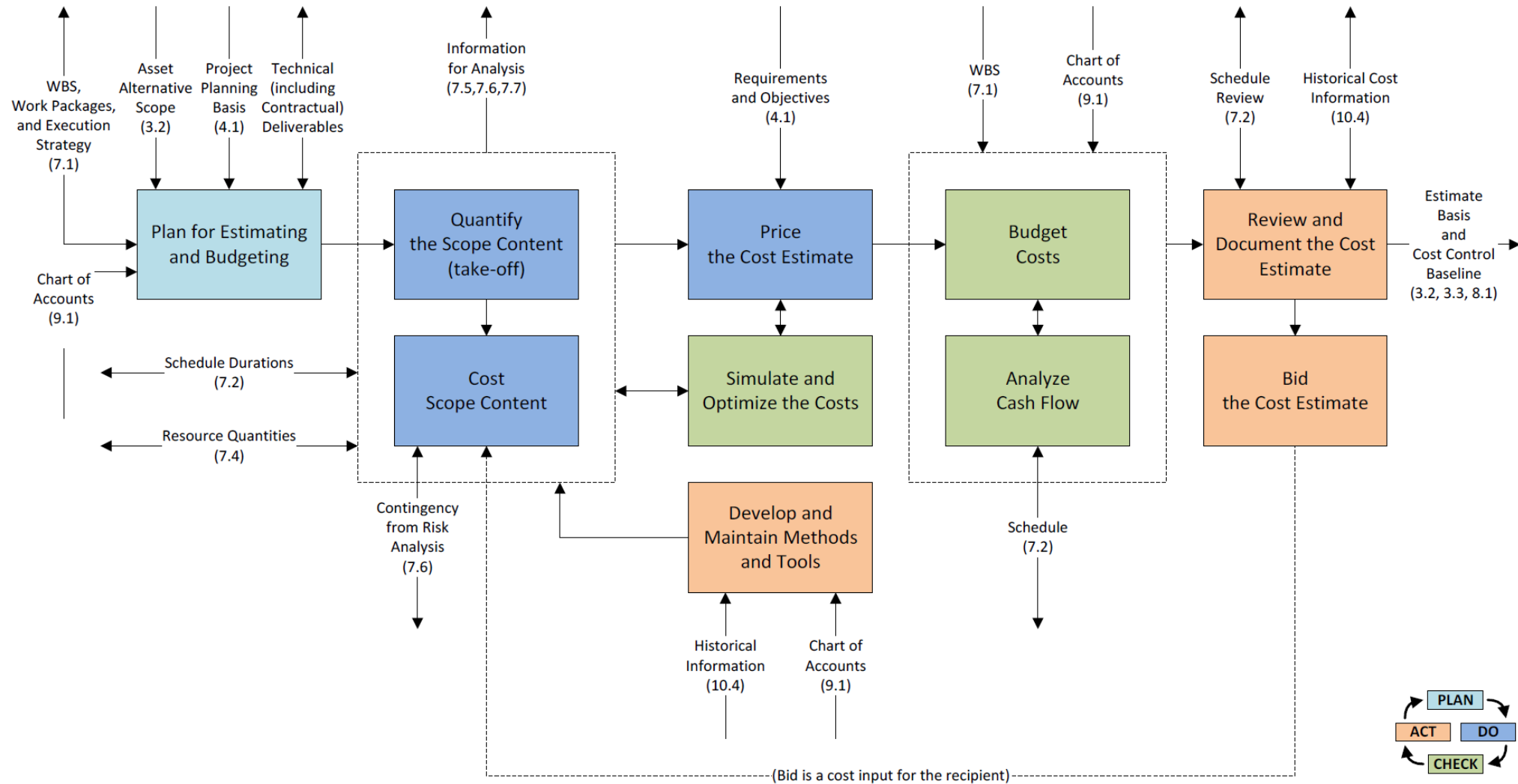
## IPA/MIMOSA OIIE Capital Project Team Cost Estimating Sub-Team Tiger Team Charter

- The intent of this team's focused effort is to create a “strawman” of the industry good practice regarding the cost estimating process at a level of detail (granularity) to allow for identification of data and data management that can be improved (both internally to the company or industry and externally).
- At the same time these industry good practices need to be at the right level to allow for adoption across the industry and represent what your company’s, industry, group or other entity you are presently doing regarding practices and processes.
- Therefore, this group will be leveraging the individual team members and publicly available representations and existing industry good practices and processes to develop the strawman.

----- Update on 11/16/21 -----

- Challenging main work demands in 4<sup>th</sup> Quarter
- Subteam - Meeting 11/17/21 – Mark Pyatt will pick up Von’s role for 3-4 months
- AACE discussions on tactics continue
- Will develop 2022 Work plan

# IPA/MIMOSA OIIE Capital Project Team Cost Estimating Sub-Team Tiger Team High Level Starting Point



**Figure 7.3-1 Process Map for Cost Estimating and Budgeting**

# IPA/MIMOSA OIIE Capital Project Team Cost Estimating Sub-Team Tiger Team Drill Down

Cost Code	Description			
	Cost Categories (Level 2)		CC	RC, OC, MC and EC
	Cost Groups (Level 3)			
1.	Construction Costs (CC)			
2.	Renewal Costs (RC)			
3.	Operation Costs (OC)			
4.	Maintenance Costs (MC)			
5.	End of Life Costs (EC)			
1.	Construction Costs (CC)		Cost Categories CC, RC and MC use the same Cost Groups	
2.	Renewal Costs (RC)			
4.	Maintenance Costs (MC)			
01.	Demolition, site preparation and formation			
	Scope: All necessary advance or facilitating work to prepare, secure and form the site to enable substructure [construction   renewal   maintenance]			

Cost code	Description			Note
	Cost Category (Level 2)	CC	RC or MC	
	Cost Group (Level 3)			
	Cost Sub-Group (Level 4)			
1.	Construction Costs (CC)			
2.	Renewal Costs (RC)			
4.	Maintenance Costs (MC)			
	(CC, RC, and MC share the same Cost Groups below, so far as applicable. Those separated by ‘ ’ in [ ] are respective alternative terms.)			
01.	Demolition, site preparation and formation			
01.010	Site survey and ground investigation			
01.020	Environmental treatment			
01.030	Sampling of hazardous or useful materials or conditions			
01.040	Temporary fencing			
01.050	Demolition of existing buildings and support to adjacent structures			
01.060	Site surface clearance (clearing, grubbing, topsoil stripping, tree felling, minor earthwork, removal)			
01.070	Tree transplant			
01.080	Site formation and slope treatment			
01.090	Temporary surface drainage and dewatering			
01.100	Temporary protection, diversion and relocation of public utilities			
01.110	Erosion control			
02.	Substructure			
02.010	Foundation piling and underpinning: 010 – mobilisation and demobilisation 020 – trial piles and caisson 030 – permanent piles and caisson 040 – pile and caisson testing 050 – underpinning			

Cost code	Description			Note
	Cost Category (Level 2)	CC	RC or MC	
	Cost Group (Level 3)			
	Cost Sub-Group (Level 4)			
02.020	Foundations up to top of lowest floor slabs:  010 – excavation and disposal 020 – lateral supports 030 – raft footings, pile caps, column bases, wall footings, strap beams, tie beams 040 – substructure walls and columns 050 – lowest floor slabs and beams (excluding basement bottom slabs) 060 – lift pits 070 – composite or prefabricated work			
02.030	Basement sides and bottom:  010 – excavation and disposal 020 – lateral supports 030 – bottom slabs and blinding 040 – sides 050 – vertical waterproof tanking, drainage blanket, drains and skin wall 060 – horizontal waterproof tanking, drainage blanket, drains and topping slab 070 – insulation 080 – lift pits, sump pits, sleeves 090 – composite or prefabricated work			
03.	Structure			
03.010	Structural removal and alterations			

Cost Code	Description				
	Cost Categories (Level 2)			CC	RC, OC, MC and EC
	Cost Groups (Level 3)				
02.	<div>Substructure</div> <div>Scope: All the load bearing work underground or underwater up to and including the following (including related earthwork, lateral support beyond site formation, and non-loadbearing components and services and equipment forming an integral part of composite or prefabricated load bearing work) and as illustrated in Part 4.2:</div> <ul style="list-style-type: none"><li>for buildings: lowest floor slabs, and basement sides and bottom including relatedwaterproofing and insulation</li><li>for roads, runways and motorways: sub-base to pavements</li><li>for railways: sub-base to rail track structures</li><li>for bridges: pile caps, footings, bases nearest ground level or water level if constructed inwater</li><li>for tunnels: external faces of structural tunnel linings</li><li>for tanks and the like underground: external faces of tanks</li><li>for tanks and the like above ground: bases supporting tanks</li><li>for pipelines underground: beds and surrounds to underground pipes</li><li>for pipelines above ground: bases to structures supporting pipes</li><li>for wells and boreholes: bases to structures supporting well heads</li><li>for dams and reservoirs: seepage ditch, drainage layer/blanket, drain channels, foundation,base, footings, cut-off wall, heel and toe</li><li>for mines and quarries: underground mines: bases to structures supporting shaft headgear;open pits: bases to structures; processes: bases to structures, tanks, and bases to major process equipment.</li></ul>				
03.	<div>Structure</div> <div>Scope: All the load bearing work, including non-load bearing components and services and equipment forming an integral part of composite or prefabricated load bearing work, excluding those included in Substructure and Architectural works   Non-structural works.</div>				
04.	<div>Architectural works   Non-structural works</div> <div>Scope:All architectural and non-load bearing work excluding services, equipment, andsurface and underground drainage.</div>				

Cost Code	Description			
	Cost Categories (Level 2)		CC	RC, OC, MC and EC
	Cost Groups (Level 3)			
05.	Services and equipment Scope: All fixed services and equipment required [to put the completed project into use for Construction Costs   to sustain the use after completion of construction for Renewal and Maintenance Costs], whether they are mechanical, hydraulic, plumbing, fire-fighting, transport, communication, security, electrical or electronic, excluding external surface and underground drainage.			
06.	Surface and underground drainage Scope: All underground or external surface drainage systems excluding those inside basement or underground construction.			
07.	External and ancillary works Scope: All work outside the external face of buildings or beyond the construction entity required to fulfil the primary function of the Project and not included in other Cost Groups.			
08.	Preliminaries   Constructors' site overheads   general requirements Scope: Constructors' site management, temporary site facilities, site services, and expenses, not directly related to a particular Cost Group, but commonly required to be shared by all Cost Groups.			
09.	Risk Allowances Scope: As defined in section 4.1 but related to [Construction   Renewal   Maintenance] Costs and not included in other Cost Groups.			
10.	Taxes and Levies Scope: As defined in section 4.1 and not included in other Cost Groups.			
11.	Work and utilities off-site Scope: All payments to government authorities or public utility companies to connect   keep connected public work and utilities to the site, or services diversions, to enable the Project, including related risk allowances, taxes and levies.			
12.	Post-completion loose furniture, fittings and equipment Scope: Those provided for the Project to perform its function close to or after completion of construction, including related risk allowances, taxes and levies.			
13.	Construction   Renewal   Maintenance-related consultancies and supervision Scope: Fees and charges payable to Service Providers not engaged by the Constructors, including related risk allowances, taxes and levies.			

Cost Code	Description			
	Cost Categories (Level 2)		CC	RC, OC, MC and EC
	Cost Groups (Level 3)			
3.	Operation Costs (OC)			
01.	Cleaning Scope: Periodic, routine and specialist cleaning of internal and external works.			
02.	Utilities Scope: Fuel, including gas, electricity, fuel oil solid and other fuel; water and drainage including water rates, effluents sewerage drainage and other charges.			
03.	Waste management Scope: Collection, compaction, removal and disposal and/or recycling general and toxic waste from the constructed asset.			
04.	Security Scope: Physical security (such as access control, CCTV camera) including staff or contractors involved in providing security controls via remote support centres, to the constructed asset.			
05.	Information and communications technology Scope: Information communications systems (such as Public address and Communications cabling and IT support services built as a constructed asset, as well as technology used for monitoring assets (i.e. Building Management Systems) and physical sensors.			
06.	Operators' site overheads   general requirements Scope: Operators' site management, temporary site facilities, site services, and expenses, not directly related to a particular Cost Group, but commonly required to be shared by all Cost Groups.			
07.	Risk Allowances Scope: As defined in Part 4.1 but related to Operation Costs and not included in other Cost Groups.			
08.	Taxes and Levies Scope: As defined in Part 4.1 but related to Operation Costs.			
5.	End of Life Costs (EC)			
01.	Disposal inspection Scope: Inspections carried out in connection with demolition, dilapidations or other contractual requirements.			
02.	Decommissioning and decontamination Scope: All post-occupation activities required to render the constructed asset ready for demolition.			

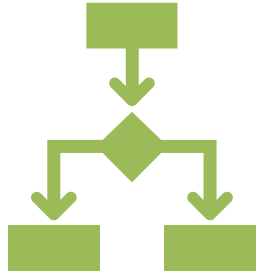
# IPA/MIMOSA OIIE Capital Project Team Cost Estimating Sub-Team Tiger DRAFT User Story Listing

User Story Theme: Cost Estimation

As an	Actor / Role (Who - People & Systems)	I want to	Activity / Task / Goal (What)	so that	Reason (Why)	when	Triggering Event (When - Optional)
1	Cost Estimation System		have database of past projects		AI can be realized/leveraged		new projects are planned
2	Estimator		perform a scope & estimate review		I can validate completeness and accuracy of the estimate		first draft or preliminary estimate
3	Gatekeeper		ensure completeness of scope definition		I can ensure the project has met objectives		Project gate review process FEL 1, 2, 3 reviews
4	Project/Lead Estimator		Material take-offs from the P&IDs pose the greatest level of accuracy (combination of parametric and expert judgement)		Parametric estimating is likely the best case scenario since it is data intensive and considered highly accurate (deterministic and probabilistic)		FEL 3 Stage Gate Review
Also Considered							
a	Estimator (Construction manager input)		workforce transparency, relates to cost estimate, availability, quantity, productivity (internal or external)		predictability and accuracy while building of cost estimate		creation of execution phase of estimate for successful installation
b	Estimator (Global Lead) Benchmarking		access accurate and standardized scope information for the purpose of building benchmark and estimate triggering vendors		when the need for an estimate arises		pro-active, IPA style cost modeling
c	Procurement		approved vendor list		expedite or shorten the cycle and reliable quotation		standard compliant
d	Procurement Leader		collect info and provide vendor costing info		I can provide up to date quotes		as the estimate is developed and scope identified

## Subteam 3 – RFI/RFI Response- Capital Supply Chain (Karamjit Kaur)

# OIIE Purchasing Use Case



## Identified OIIE Scenarios

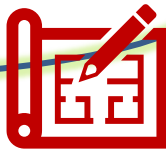
Push Request for Business Information

Push Request for Catalog Information

Push Request for Technical Information

Publish Request for Quotation

Push Purchase Order



## Detailing OIIE Scenarios

System Actors (MATERIALS, OEM PRODUCT, ..)

Data Content

Data Formats

Reference Types

Infrastructural Components

System Interoperability Events

Event Sequence

# RFQ & RFQ Response

## RFQ

Request (Metadata)

RFQ Header

RFQ Line 1 – Item details

RFQ Line 2 – Item details

...

Tag/Functional Location

Metadata

Functional Requirements Datasheet (JIP33  
Datasheet **Low Voltage Motors IEEE Std 841**)

Document 1

Document 2

...

## RFQ Response

Request (Metadata)

RFQ Header

RFQ Line 1 – Item Pricing details

RFQ Line 2 – Item Pricing details

...

Tag/Functional Location

Metadata

Functional Requirements Datasheet (JIP33  
Datasheet **Low Voltage Motors IEEE Std 841**)

Document 3

Document 4

...

# Using JIP 33 Procurement Specification

Row	S-733D Data Sheet for Low Voltage Motors (IEEE Std 841)			JIP33 JOINT INDUSTRY PROGRAMME
2	Tag No.:	Insert Tag Number		
3	Service:	Insert Service Description		
4	Ref. Clause	Description		Additional notes
5		Order status:	Select	
6	<b>Purchaser information</b>			
7		Client name:	Input Data	
8		Site or location:	Input Data	
9		Project title or number:	Input Data	
10		Purchase order number:	Input Data	
11		Date:	Input Data	
12	<b>General</b>			
13		Manufacturer:	Input Data	
14		Model number:	Input Data	
15		Additional certification:	none	
16	<b>Duty</b>			
17		Starting method:	DOL	
18	5.3.1a	ASD driven:	No	
19		Number of poles:	Select	
20		Motor synchronous speed:	Input Data	rpm
21		Duty point shaft power:	Input Data	Select
22		Direction of rotation:	bi-directional	
23		Method of motor coupling to driven equipment:	direct	
24		External radial loading on the motor shaft end:	Input Data	Select
25		External axial loading on the motor shaft end:	Input Data	Select
26		Moment of inertia of the load:	Input Data	Select
27	<b>Rating</b>			
28		Frame size:	Input Data	
29		Rated power output:	Input Data	Select
30	4.1	Service factor:	1.00	
31		Full load current (FLC):	Input Data	A
32	<b>Site conditions</b>			
33	3.1a, 3.2a	Location environment		
34		Floating/marine/shipboard:	No	
35	3.1a, 3.2a	Chemical or corrosives:	Input Data	
36	3.1b, 3.2a	Altitude:	1000 m (3300 ft)	m (ft)
37	3.1a	Minimum ambient air temperature:	-25 (-13)	°C (°F)
38	3.1a	Maximum ambient air temperature:	40 (104)	°C (°F)
39		Storage conditions (if different from normal operating conditions):	Input Data	
40		Storage duration:	Input Data	Month (s)
41		Motor nameplate "Oil Mist Lubricated":	not required	
42		Motor temporary tag "Oil mist ready, do not run without oil":	not required	
43	<b>Electrical operating conditions</b>			
44	3.2b	Motor rated frequency:	60	Hz
45	3.2b, 4.3	Motor rated voltage:	Select	V
46	<b>Starting performance</b>			

Select	Manufacturer completed, pick list of pre-defined values (may be pre-populated with a default value).
Input data	Manufacturer completed data entry.
Select	Purchaser completed, pick list of pre-defined values (may be pre-populated with a default value).
Input data	Purchaser completed data entry.
Select	Either manufacturer or purchaser completed, selection list of pre-defined values (may be pre-populated with a default value).
Input Data	Either manufacturer or purchaser completed data entry.
Select	Selection of units from a pre-defined pick list.

- Building example dataset for piloting purposes
- Exchange JIP 33 equipment datasheet digitally in MIMOSA CCOM XML format - ISDD (Industry Standard Datasheet Definition)

# RFQ and RFQ Response – Data Contents

## RFQ Header

- Project Details
- Note
- Issue Date
- Due Date
- Validity Period
- Billing Address
- Delivery Address
- Delivery Terms
- Payment Terms
- Currency Code (ISO 4217)
- Destination Country (ISO 3166)
- Partial Shipment Allowed Indicator
- Tax Exempted
- Catalogue Reference
- Contract Reference
- Document Reference(s)
- Total Amount
- Signature
- Line Count

## RFQ Line

- Item Number
- Tag Number
- Size/Measurements/Dimensions
- Quantity
- UoM
- Lead Time
- Unit Price
- Total Price
- Required Delivery Date
- Partial Shipment Allowed Indicator
- Delivery Address
- Optional Item
- Transportation Terms
- License Information
- Catalogue Reference
- Item Details

## Subteam 4- Asset Installation – Capital (Matt Selway)

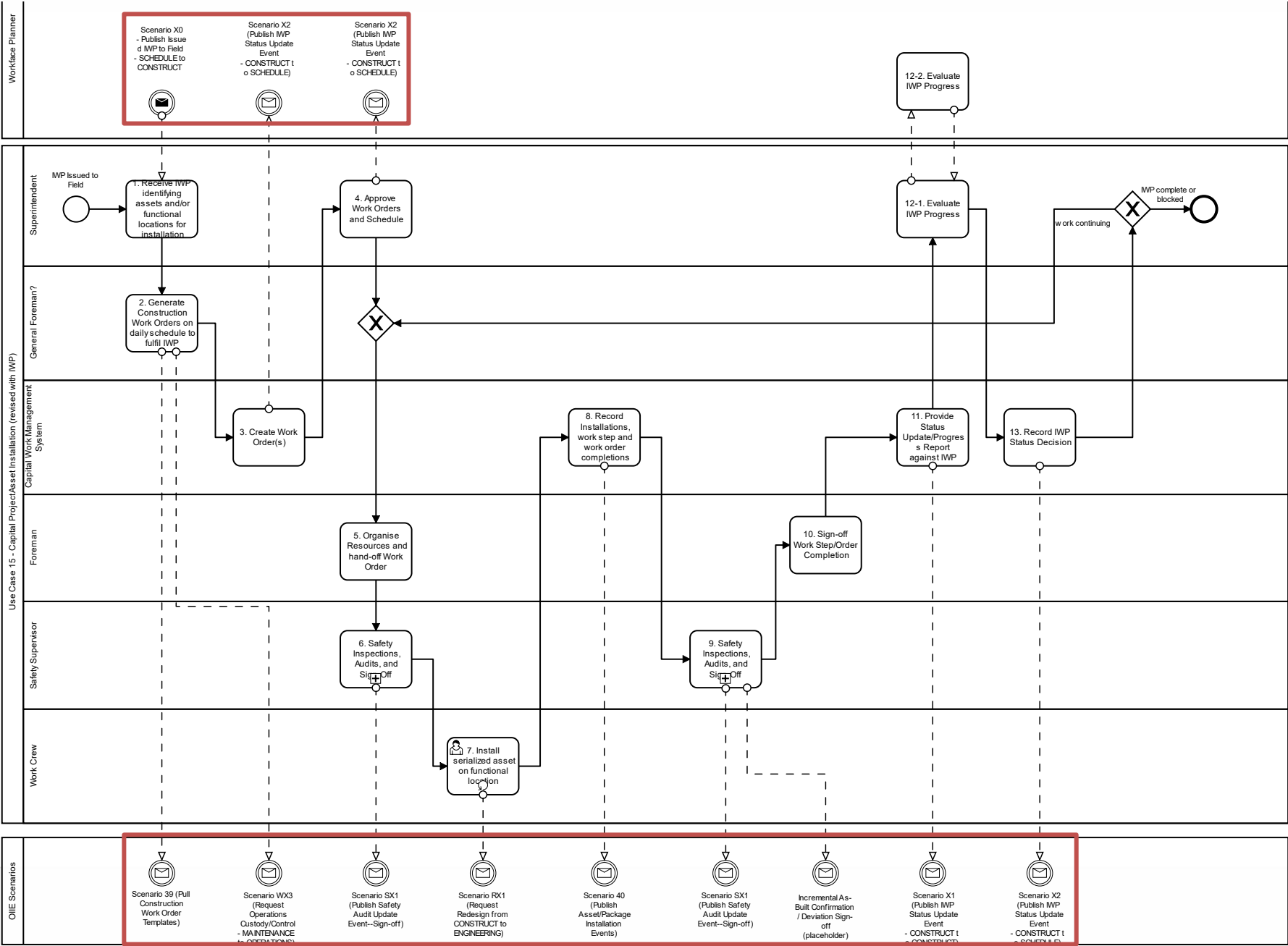
Putting together an example IWP minimum dataset  
perform mapping to issue and then track progress  
(Excel and CCOM)

Request: Owner to supply a real capital project IWP example  
Sample in <https://www.coaa.ab.ca/library/advanced-work-packaging-summary/>

# Back-End Sub Team Progress: Capital Asset Installation Use Case Update

- Incorporating:
- IWP issuance as trigger;
  - breakdown into daily work;
  - scenarios for safety audits and sign-offs; and
  - IWP evaluation and status updates

- Identified large number of scenarios (system interactions):
- Taking 3 to pilot
  - IWP Issuance to Field (entry point)
  - IWP Status Updates (internal)
  - IWP Status Updates (to scheduling/planning)



# Back-End – Asset Installation - Sub Team

## Progress: Next Steps

- Continue detailing out IWP Issuance scenario
  - Key scenario as it provides the input into the Use Case
  - Incorporating relevant AWP data requirements
  - Mapping to MIMOSA CCOM
    - Work Requests, Work Orders, and their Work Steps; Documents and other related
    - Reference Data Mapping and Creation (where necessary)
  - Generate example data set for pilot
- Detail out the other 2 selected scenarios:
  - IWP Status Updates (construction-to-construction systems)
  - IWP Status Updates (construction-to-scheduling/planning systems)
  - These will be similar and should have good reuse

Open Industrial Interoperability Ecosystem (OIIE)<sup>™</sup> OGI Pilot  
Phase 3.3/3.4 Update  
AT Johnston

# Pilot Update

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Wrapping up 3.3 sprints in November/December

Purchase-> Installation -> Data Hand over to Operations/ Maintenance will be demonstrated

3.3 Demonstration Video – target mid-December

Target January Progress Report and Strategic Planning Session

F2F Houston Session – Need to increase awareness of what has already been done – (John Fish- FB&D) – Vendor Information Requirement Form- would like to standardize (take to owner's group)- Common minimum mandatory fields for all products

Mapping of Models (CIFHOS, Mimosa CCOM, AWP Data Models, ILAP )

Ongoing workshops with OIIE Australian Working Group participants - follow- up with this community



Open Standards for  
Physical Asset Management

# MIMOSA Planning for 2022

Alan Johnston, President  
November 16, 2021

# OIIE OGI Pilot Phases (3.x Series)

Phases of the **OIIE OGI Pilot** incrementally develop, improve and validate OIIE Use Cases which are used to capture requirements and interoperability solutions specifications defining the OIIE.

- **Phase 3.3 (2021)** – Now-Updating 3 existing OIIE Use Cases and add Purchasing Use Case
  - Initial alignment with existing CFIHOS RDL, CII AWP/IWP work and OIIE Australian WG (**New and updated OIIE Use Cases**)
  - **Added new example asset class for general industries (Street lamp Assembly, Fixture, LED Bulb)**
  - **Developed mock application for mobile PM/CBM/WM – Triggering of Work Request following PM inspection**
  - Capturing requirements for Managed Industry Clusters (**Initial Example-Energy Clusters**)
  - Working with ISA for shared OpenO&M/OIIE Services Directory Specification and ISBM 2.1 Update (Clusters)
- **Phase 3.4 (2021-2022)** – Planning for Next Phase (2021 - Q4 Start)
  - Vendor Information Requirements Form (VIRF) based on JIP 33 Specifications? (Digital/Virtual Form for Digital Transformation)
  - Digital Handover based on CFIHOS 1.4.1 using CFIHOS provided Schema and RDL? (OIIE Digital Exchange Services)
  - Digital Supply Chain Management using the OIIE – with CII SCM CBA? (OIIE Digital Exchange Services)
  - More AWP/CWP/IWP using the OIIE- with CII AWP CBA?
  - Cross-Sector alignment for Critical Infrastructure Risk Management (Asset Intensive plus BIM sharing OIIE)?
  - OIIE Adaptor SDKs (.NET and Jakarta)
  - Firm up OIIE Managed Clusters specifications/implementations
  - Include more requirements established with OIIE Capital Projects WG, OIIE Australian WG, FEnEx CRC, CFIHOS, and CII
  - Generate Technical Report to be used as input for ISO 18101
  - **Help members prepare for Production Pilots and implementations in 2022**

# OIIE OGI Pilot Phase 3.3 - Starts Adding AWP (IWP) and CFIHOS

The plan is to update 2 existing OIIE Use Cases and inserts a new OIIE Use Case focused on Purchasing, then follow the existing OIIE Use Cases shown here

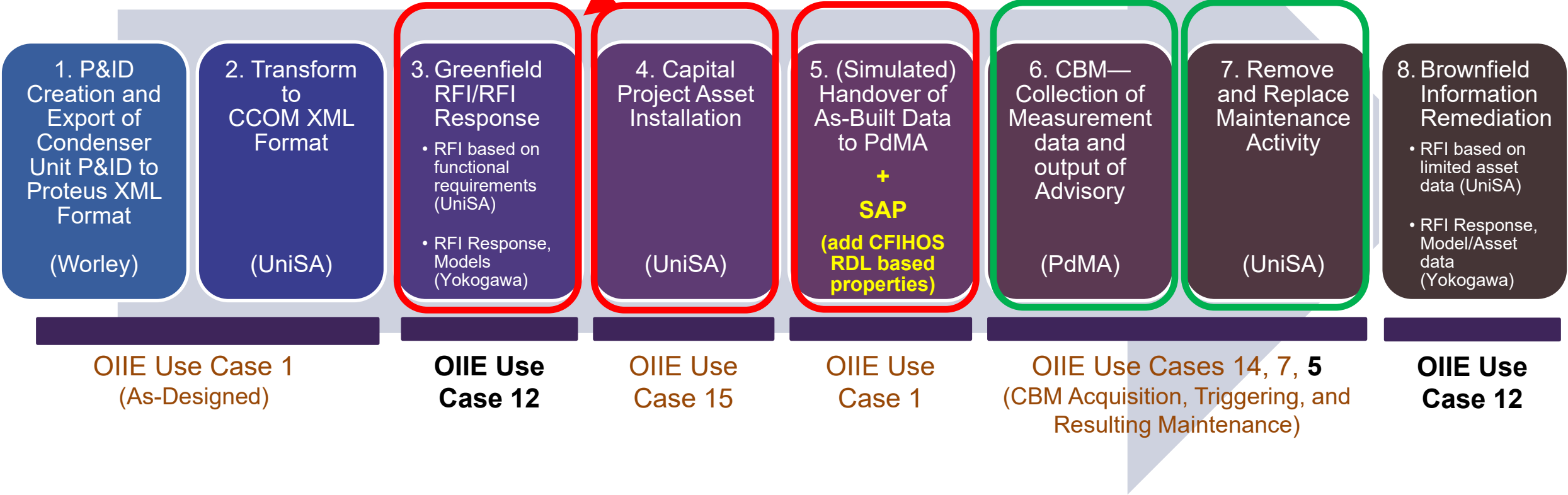
**Relevant CFIHOS RDL is being added along with AWP requirements for IWPs.**

**Insert New OIIE Use Case**

1. Purchasing

**IEEE Std 841/IOGP - JIP33 S-733D**

Low Voltage Electric Motor and ISA Spec Instrument



# OIIE OGI Pilot 3.3 Sprints

Sprint 1 (June 2021) Tasks	Status
1. Purpose of CFIHOS RDL for pilot	Completed
4. Generate CFIHOS RDL based ISDD for Motor	Completed
3. Review CFIHOS RDL based ISDD for Diff. Press Trans.	Awaiting CFIHOS review

Sprint 2 (July 2021) Tasks	Status
7. New OIIE Use Case for Purchasing	Reassigned to Sprint 5
8. Extend OIIE Use Case 15 with IWP	Reassigned to Sprint 5

Sprint 3 (Aug 2021) Tasks	Status
9. Extend OIIE Handover Use Case for CFIHOS ISDDs	Reassigned to Sprint 4
10. Demo extended OIIE Use Case 1	Reassigned to Sprint 4

Sprint 4 (Sep 2021) Tasks	Status
5. Generate JIP 33 based ISDD Motor	To be completed by end of Oct
9. Extend Use Case 1 for CFIHOS ISDDs	To be completed by end of Oct
10. Demo extended OIIE Use Case 1	To be completed by end of Oct

Sprint #	Backlog Tasks		Task Short Description
Sprint 5 (Oct 2021)	6.1	7	6.1 ISBM 2.1 Specification update (AMQP) 7. New OIIE Use Case for Purchasing 8. Extend OIIE Use Case 15 with IWP 11. Implement provisioning of SAP for CFIHOS ISDDs
Sprint 6 (Till Mid-Nov 2021)	11	8	
	6.2	12	6.2 Service Directory 2.1 Specification update 12. Implement ISBM 2.1 specification

## OIIE OGI Pilot 3.4 Sprints

Sprint #	Backlog Tasks		Task Short Description
Sprint 1 (Nov 2021)	14	15	14. Development of initial capability model, FEnEx CRC 15. CFIHOS/AWP based contract handover requirements preparation
Sprint 2 (Dec 2021)	13	16	13. Implement Service Directory 2.1 specification 16. Partial prototype CFIHOS/AWP based contract handover requirements

# OIIE AuWG Workshops Plan

Workshop	Q&A Session	Concept	Implementation
Workshop 1	3 <sup>rd</sup> Nov 2021, 11:30 am ACDT	<ul style="list-style-type: none"> <li>• OIIE Use Case Architecture Overview</li> <li>• OIIE Infrastructure Components Overview</li> <li>• OIIE User Stories Overview</li> </ul>	<ul style="list-style-type: none"> <li>• Implement basic 'Hello World User Story'</li> <li>• Project Set-up; ISBM adaptor libraries</li> <li>• Publish 'Hello World' message</li> <li>• Subscribe</li> </ul>
Workshop 2	24 <sup>th</sup> Nov 2021, 11:30 am ACDT	<ul style="list-style-type: none"> <li>• OIIE Event specifications &amp; BODs</li> <li>• OIIE Scenarios specification</li> <li>• OpenO&amp;M ISBM Overview</li> </ul>	<ul style="list-style-type: none"> <li>• Channel Management overview and implementation</li> <li>• Revisit 'Hello World' Publish-Subscribe example with channel management details</li> </ul>
Workshop 3	8 <sup>th</sup> Dec 2021, 11:30 am ACDT	<ul style="list-style-type: none"> <li>• OIIE Use Case specification</li> <li>• OIIE Use Case examples</li> <li>• Publish-Subscribe(OIIE Use Case 5)</li> <li>• Request-Response(OIIE Use Case 12)</li> </ul>	<ul style="list-style-type: none"> <li>• Request-Response operations</li> <li>• Example OIIE Use Case implementation</li> </ul>
Workshop 4	2 <sup>nd</sup> Feb 2022, 11:30 am ACDT	<ul style="list-style-type: none"> <li>• OpenO&amp;M SDAIR</li> <li>• OpenO&amp;M Service Directory</li> <li>• OpenO&amp;M CIR</li> </ul>	<ul style="list-style-type: none"> <li>• Example of each specification in context of OIIE Use Cases</li> <li>• Example of checking the ISBM configuration ('configuration discovery service')</li> </ul>

# 2022 Projected Expenses

<b><u>Fixed Expenses</u></b>																			
ANSI US TAG Fees	\$	6,000.00																	
Bank Fees	\$	300.00																	
Communications Svcs	\$	1,000.00																	
SAP Licences-Core ERP,PM,MM, Cloud Appliance Library Svc	\$	8,000.00																	
Professional Services	\$	9,000.00																	
			\$	24,300.00															
<b><u>Variable Expenses</u></b>																			
FEnEx CRC <b>Minimum for matching funds</b>	\$	50,000.00				Minimum Funding 1 Pilot Phase and Single CRC Project (Interoperable, Risk Based Analytics													
Travel and Meeting Expenses <b>Minimum (5)</b>	\$	12,500.00				2 International, 3 Domestic (MIMOSA, CII, CFIHOS, ISO, ISO/IEC, ARC, IMC)													
			\$	62,500.00															
<b>Minimum Total Expenses</b>			\$	86,800.00															
<b><u>Optional Expenses to Maintain Scope, Pace and Quality</u></b>																			
Additional FEnEx CRC Contributions for matching funds	\$	100,000.00				Fully Funding 2 Pilot Phases, Possible Added CRC Project													
Additional Travel and Meetings Expenses	\$	25,000.00				Funding normal level of travel for coordination meetings (MIMOSA, CII, CFIHOS, ISO, ISO/IEC, ARC, IMC)													
Marketing and Misc	\$	25,000.00																	
			\$	150,000.00															
<b>Total Expenses to fund 2 Pilot Phases, normal travel and meetings</b>			\$	236,800.00															

# Subteam 5 -- Prioritization and Value Case Definition – D. J. McNeil

## Sub-Team 5

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Subteam 5 -- Prioritization and Value Case Definition – enablers –  
Deb McNeil

Goal- to stay focused on right priorities- identify economy of scale areas

- ✓ See August 2021 Meeting Minutes for where \$ and time are actually spent on Industry Projects and current industry average performance
- ❑ October/ November Meetings – Identify 2022 Priorities → Moved to January Strategy Session

# Key Issues- 2022 Priorities

# IPA-MIMOSA 2022 Planning

## 2021 Activities

Cost Estimating Framework  
Purchasing (RFI/RFI Response)  
Asset Installation  
Pilot 3.3

## 2022 Plans

Cost Estimating

- Complete Use Cases for 3.5 Pilot

RFI/ RFI Response

- Complete Use Cases for 3.4 Pilot; Define 3.5

Asset Installation

- Complete Use Cases for 3.4 Pilot; Define 3.5

Pilot 3.4

### **Phase 3.4 (2021-2022) – Planning for Next Phase (2021 - Q4 Start)**

- Include more requirements established with OIIE Capital Projects WG, FEnEx CRC, CFIHOS, CII, and **NOW AACE**
- Cross-Sector alignment for Critical Infrastructure Risk Management
- Generate Technical Report to be used as input for ISO 18101
- Shared Costs, Risks and Benefits – Requirements from Members and Sponsors are Prioritized
- Alignment with FEnEx CRC Project on Interoperable Analytics provides matching funds for R&D/Testing
- Prepare for internal Production Pilots and Production Use in mid 2022 and beyond

# Optional Priorities for OIIE OGI Pilot Phase 3.4 and Beyond

- IPA-MIMOSA OIIE Capital Project Use Cases
  - Cost Estimating
  - Supply Chain (Capital RFI/Purchasing)
  - Asset Installation
- CFIHOS 1.4.1 Based Handover –
  - Critical Path items for end of 2021?
- Supply Chain Management Digital Transformation
  - Critical Path items for Q1/Q2 2022?
- AWP/CWP/IWP for Capital Projects
  - Critical Path items for Q2/Q2 2022?
- BIM/IFC and OIIE Convergence
  - Relative importance for different industry sectors?

Next Steps

Check-

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Access to MIMOSA TEAMS work area –

Anyone needing an invitation contact Matt Selway:

Matt.Selway@my.unisa.edu.au

# IPA – MIMOSA OIIE CPWG

## Levels of Participation

General Interest

Register for Large Group  
Meeting Minutes


Attend the Large Group  
Meeting

Attend the Breakout Team  
Working Groups

You'll be invited to join the TEAMS site.

You can then sign up for participation in one  
Or more of the Break-out Groups

# Join us on TEAMS and let's get to work...



The image shows the Microsoft Teams interface. On the left, the 'Teams' sidebar lists 'Your teams' with 'OIIE Capital Projects WG' selected. Under this team, the 'General' channel is highlighted, and the '00 Main Meeting Agendas-Not...' channel is selected. Below this, '01 Front-End Workstream' and '02 Mid Workstream' are listed, followed by '2 hidden channels'. The 'MIMOSA' team is also visible with its 'General' channel. The main pane on the right shows the '00 Main Meeting Agend...' team with tabs for 'Posts', 'Files', and 'Wiki'. The 'Files' tab is active, displaying a list of files under the heading 'Main Meeting Agendas-Notes-Recordings'. The files listed are:

Name
1A_MIMOSA-IPA Working Group_Kick-off_11-4-2020_Final.pptx
1B_OIIE_Capital_Project_Working_Group_Opportunities_11-4-20.xlsx
2A_IPA-MIMOSA OIIE Capital Projects Working Group_Mtg2_12-17-2020....
2B_OIIE CPWG_Mtg2Minutes.docx

## Next Steps:

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1. Identify Members willing to share your digitalization journey

2. Register on IPA Website:

<https://www.ipaglobal.com/event/digitalization-ipa-mimosa-oiie-capital-project-working-group-meetings>

- a) If not already a member, you will be invited to the MIMOSA TEAMS workspace to continue development of the Use Cases
- b) Please participate in the sub-team meetings to generate the industry input to the Pilot Project and the Industry Standards work  
(each sub-team will set it's own meetings)
- c) Contact Alan Johnston ([atjohn@comcast.net](mailto:atjohn@comcast.net)) to get more info on MIMOSA membership and access to the solutions already in place for your company to use
- d) The Main Team will meet once a month on the 3<sup>rd</sup> Tuesday from 7 to 8 am EDST to report on progress, share industry knowledge, set priorities and continue the knowledge sharing and dialog.

If you need new meeting invitation – please email [dmcneil@ipaglobal.com](mailto:dmcneil@ipaglobal.com) or Register on the IPA Website

THANK YOU