

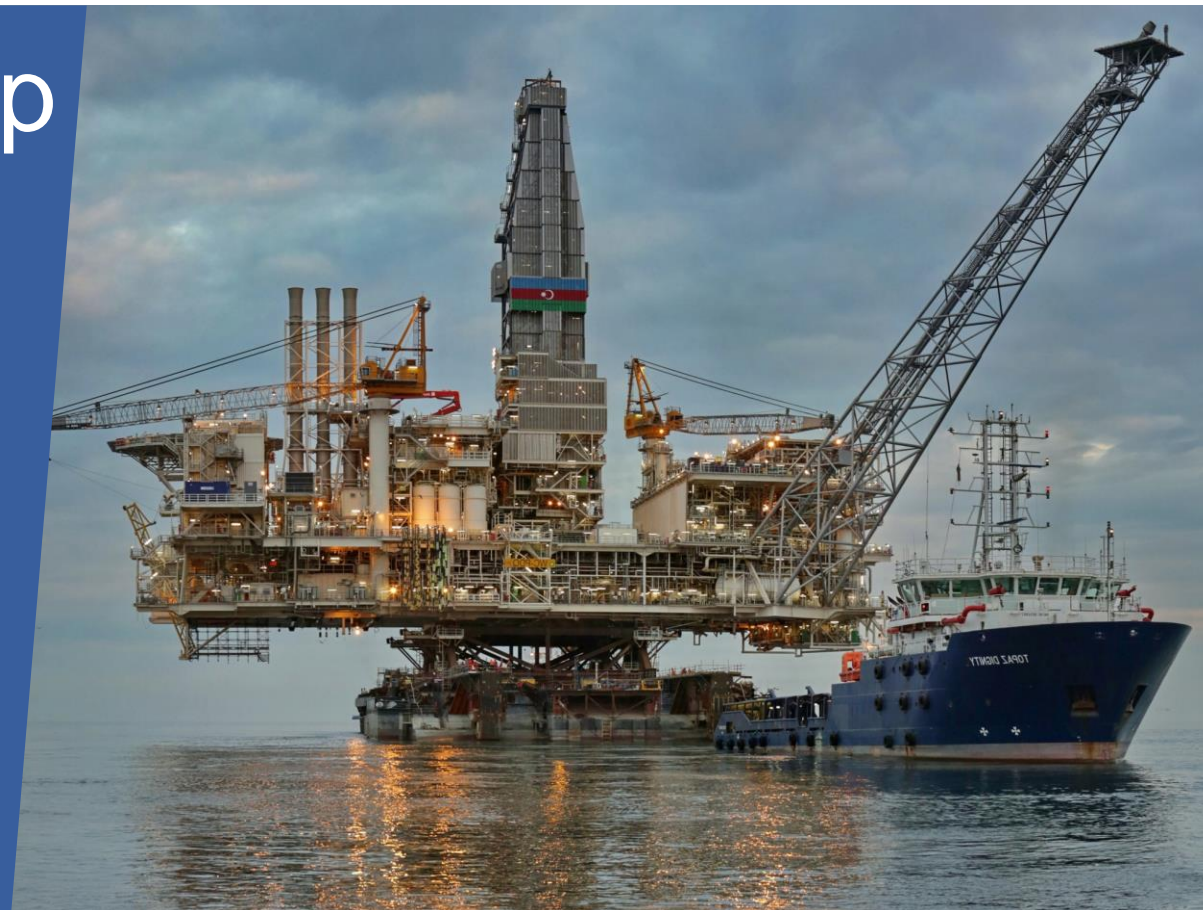
CFIHOS - The relationship between CFIHOS and JIP33

4th October 2023

Stavanger

Peter Townson

Project Director CFIHOS (JIP36)



Agenda

The relationship between CFIHOS and JIP33

- CFIHOS background
- CFIHOS and JIP33 Alignment
- Alignment process
- Current Status



CFIHOS Face to Face 2023 meeting 18th to 22nd September - Kingsport Hosted by EASTMAN Bringing together:

- over 100 engaged attendees
- 47 leading companies from around the globe

CFIHOS - Purpose

CFIHOS – ‘Capital Facilities Information Handover Specification’ (pronounced “see-foss”)

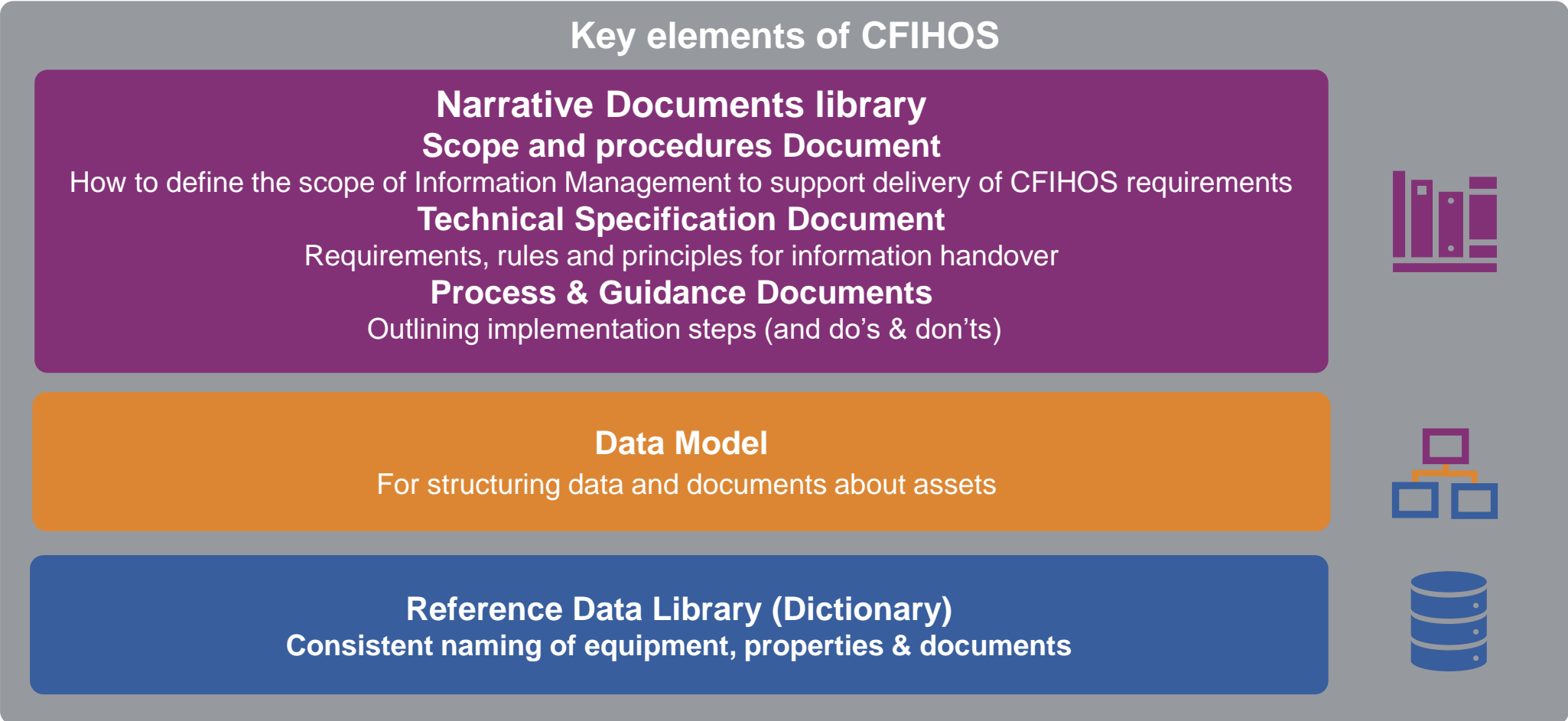
The purpose of CFIHOS is to create a handover specification that can be implemented by operators, contractors and equipment manufacturers and suppliers to standardize the specification of information handover requirements for a project.

That is required to own, operate, maintain a facility safely, efficiently and demonstrate compliance to the regulator.

Plus, CFIHOS is foundational to achieving interoperability and your digitalisation goals

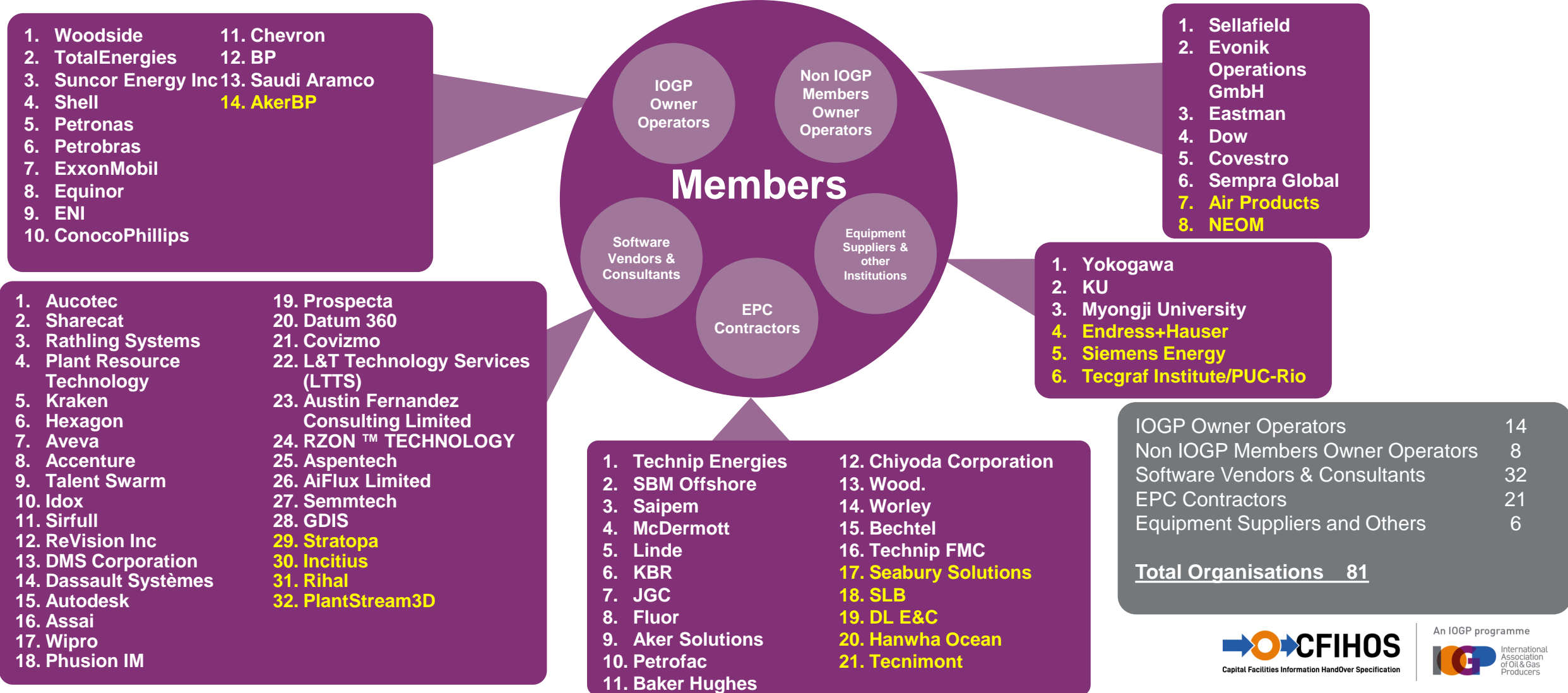
This will significantly lower the lifecycle cost associated with incorrect and missing information required to operate a facility.

CFIHOS – Key Elements



Current CFIHOS Membership

Participation has grown to 81 organizations across multiple industry sectors, with 400+ SMEs from the member organizations.



CFIHOS – Our Steering Committee

Software providers & Consultants



Ian Cornwell
Chair

IOGP Owner Operators



Tom Turner



Jean-Charles
Leclerc



Anders
Thostrup



Josh Vincent

Project Director
(Nonvoting)



Peter Townson

Owner Operators



Manoj
Dharwadkar

EPC Contractors



Jean-Luc
Hoffert

Equipment Suppliers & other Institutions



Michael Mayer

IOGP Representative



Michael
Joinson

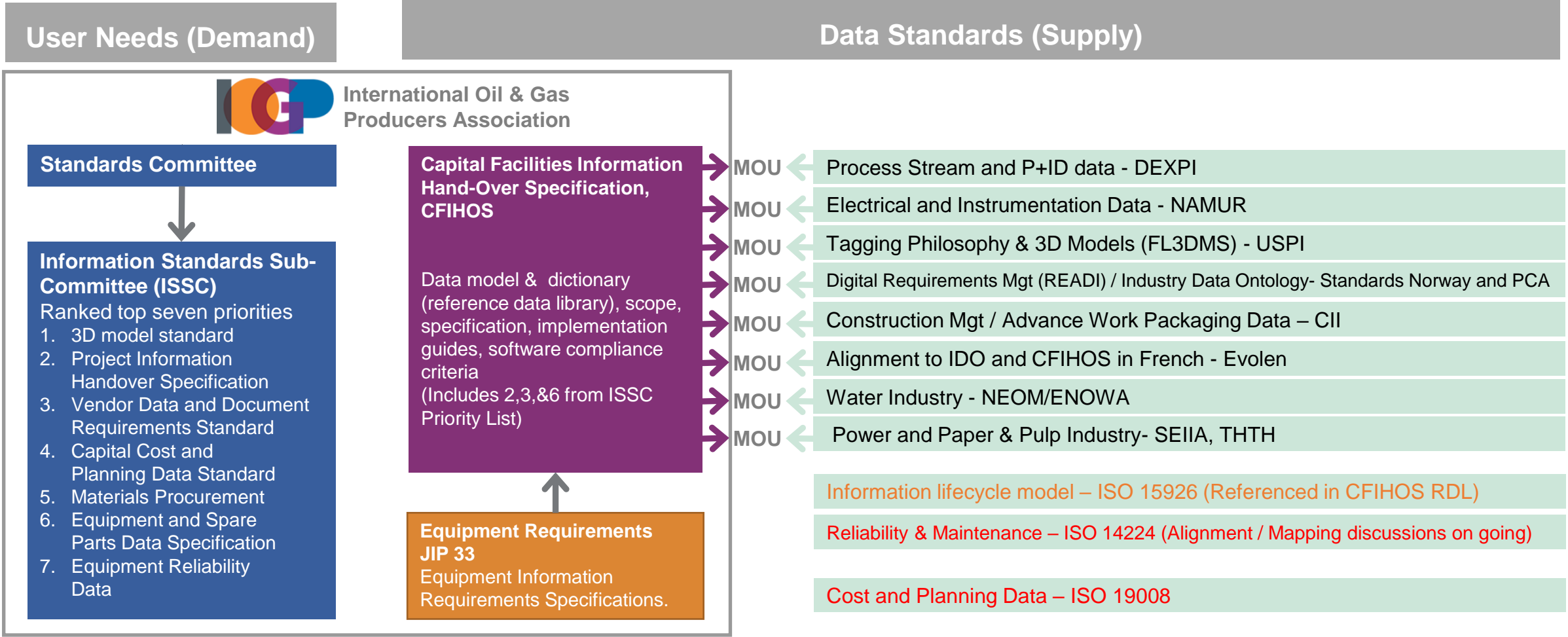
Project Administration
(Nonvoting)



Rachel Welsh

CFIHOS - Alignment MoU partners

Key industry initiatives to strengthen our common data language



CFIHOS has established a network of industry bodies to drive alignment and avoid overlap. Many are now referring to the CFIHOS data model & RDL and only extending if required

CFIHOS - Members Survey 2023

Members Survey 2022- Implementation

Over 90% of our member organisations intend to adopt CFIHOS either in full or selected parts

60% have adopted or mapped the Reference Data Library (RDL) for data

50% have adopted or mapped the Reference Data Library (RDL) for Documents

45% are executing projects that have CFIHOS as handover requirement

Take up of the specification and guidance documents is not as high as the other elements of the specification

Our EPCs, software and vendors members are reporting that numerous non-member OOs are specifying CFIHOS as a requirement across multiple industry sectors

Has or does your organisation intend to adopt CFIHOS?

Component	In full	Partially	Not at all
Reference Data Library (Data)	60%	30%	10%
Reference Data Library (Documents)	50%	40%	10%
Specification Documents	15%	35%	50%
Execution of Projects	45%	40%	15%

Has Your organisation Mapped / Compared CFIHOS with your internal requirements?

Component	In full	Partially	Not at all
Reference Data Library (Data)	40%	50%	10%
Reference Data Library (Documents)	30%	60%	10%
Specification Documents	20%	40%	40%
Execution of Projects	30%	50%	20%
Other Model	10%	10%	80%

Has Your organisation specified in a contract or received a contract with CFIHOS as a requirement?

Component	In full	Partially	Not at all
Reference Data Library (Data)	40%	50%	10%
Reference Data Library (Documents)	30%	60%	10%
Specification Documents	15%	35%	50%
Execution of Projects	45%	40%	15%
Other Model	10%	10%	80%

Is your organisation executing a project containing CFIHOS?

Component	In full	Partially	Not at all
Reference Data Library (Data)	40%	50%	10%
Reference Data Library (Documents)	30%	60%	10%
Specification Documents	15%	35%	50%
Execution of Projects	45%	40%	15%
Other Model	10%	10%	80%

EASTMAN CFIHOS An IOGP programme

Our 2023 members survey closed in September

We need to analyse the results of our annual members survey in detail.

Initial insights are:

1. Implementation progress is up
2. Quality of our deliverables is high and improved from last year

We will publish the full results during October.

Members Survey 2022– Quality of our published deliverables

The perception of quality is high.

All elements of our published deliverables scoring around 4 out of 5 for quality.

Deliverable	Score
Scope and Procedures (C-17 (001))	3.87
Specification Document (C-9 (001))	4
Implementation Guide for Principal (C-10 (001))	3.75
Implementation Guide for Contractor (C-11 (001))	3.6
Reference Data Library (C-17 (001))	4.13
Data Dictionary (C-18 (001))	3.74
CFIHOS Contract Extension Templates (C-19 (001))	4.03
CFIHOS Contract Extension Templates (C-20 (001))	3.89

EASTMAN CFIHOS An IOGP programme

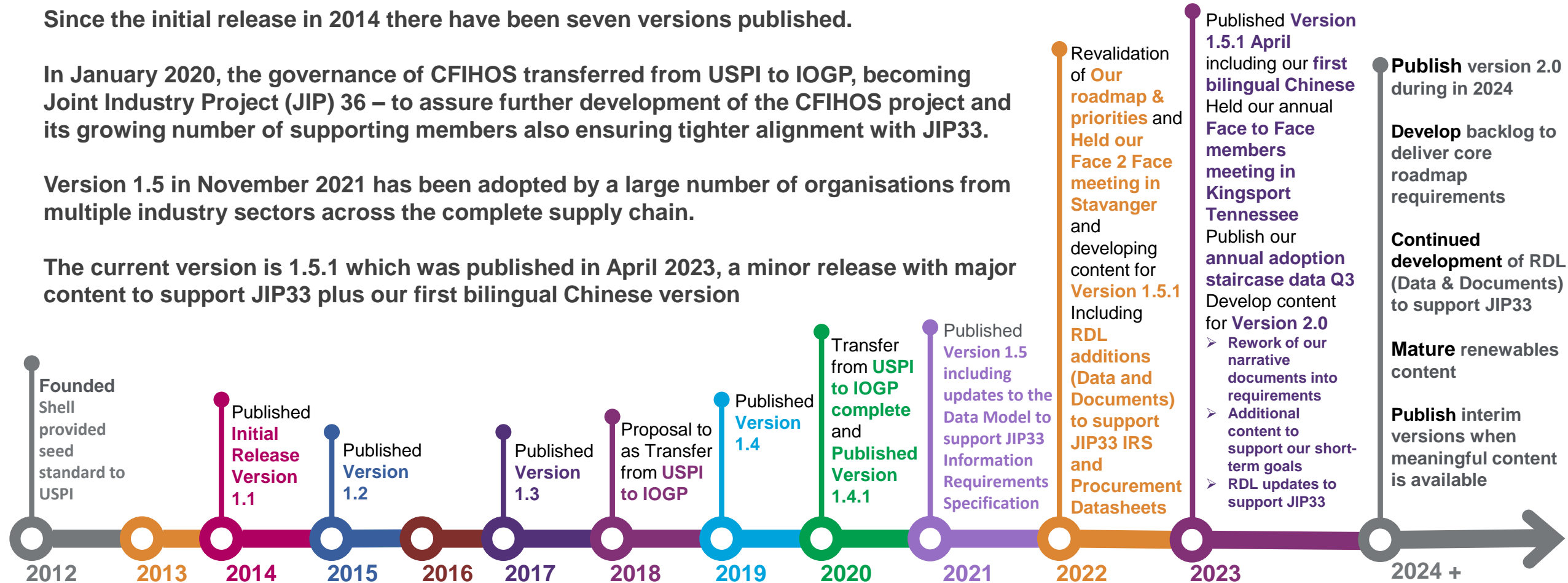
CFIHOS – Timeline and JIP33 alignment

Since the initial release in 2014 there have been seven versions published.

In January 2020, the governance of CFIHOS transferred from USPI to IOGP, becoming Joint Industry Project (JIP) 36 – to assure further development of the CFIHOS project and its growing number of supporting members also ensuring tighter alignment with JIP33.

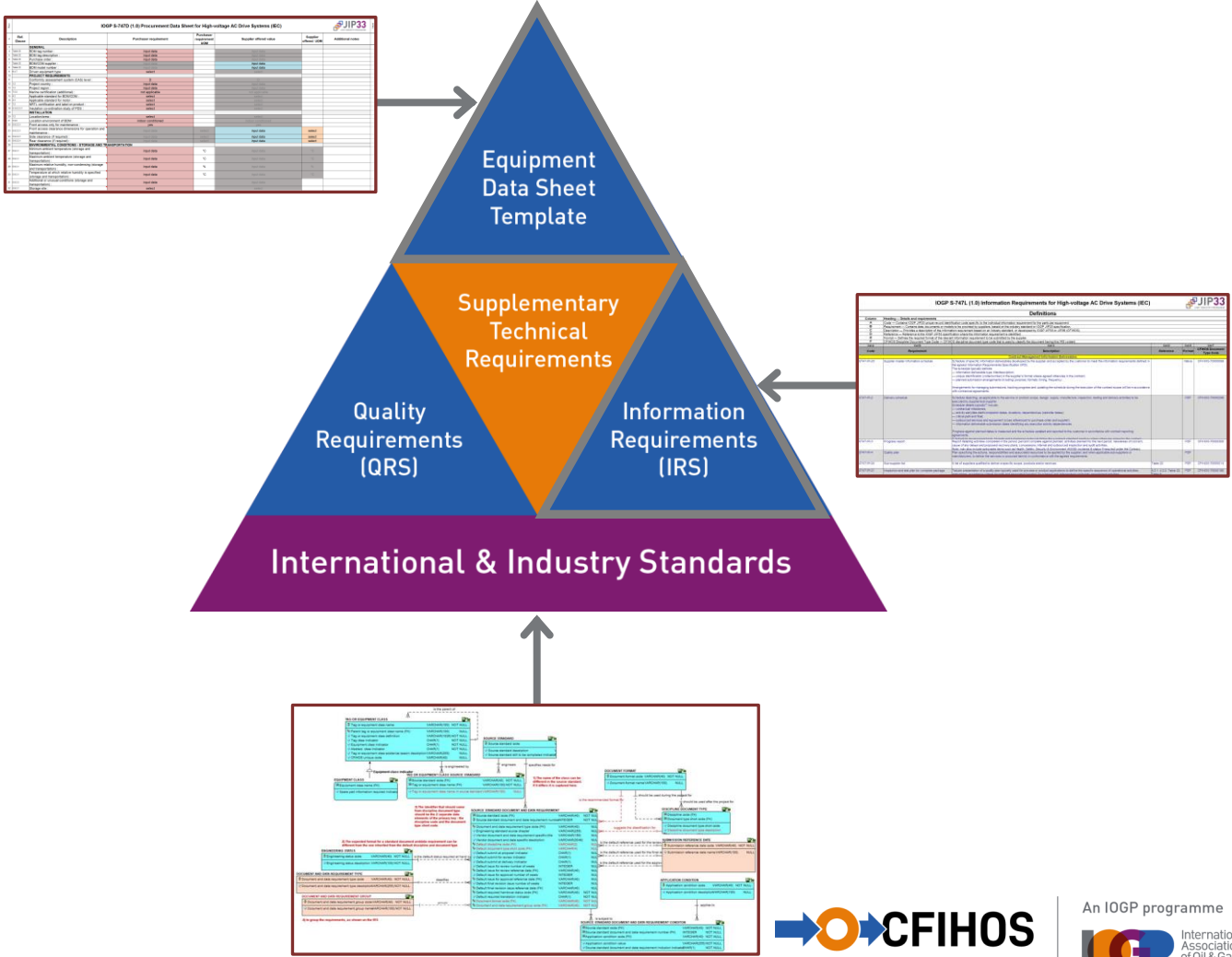
Version 1.5 in November 2021 has been adopted by a large number of organisations from multiple industry sectors across the complete supply chain.

The current version is 1.5.1 which was published in April 2023, a minor release with major content to support JIP33 plus our first bilingual Chinese version



CFIHOS and JIP33 Alignment

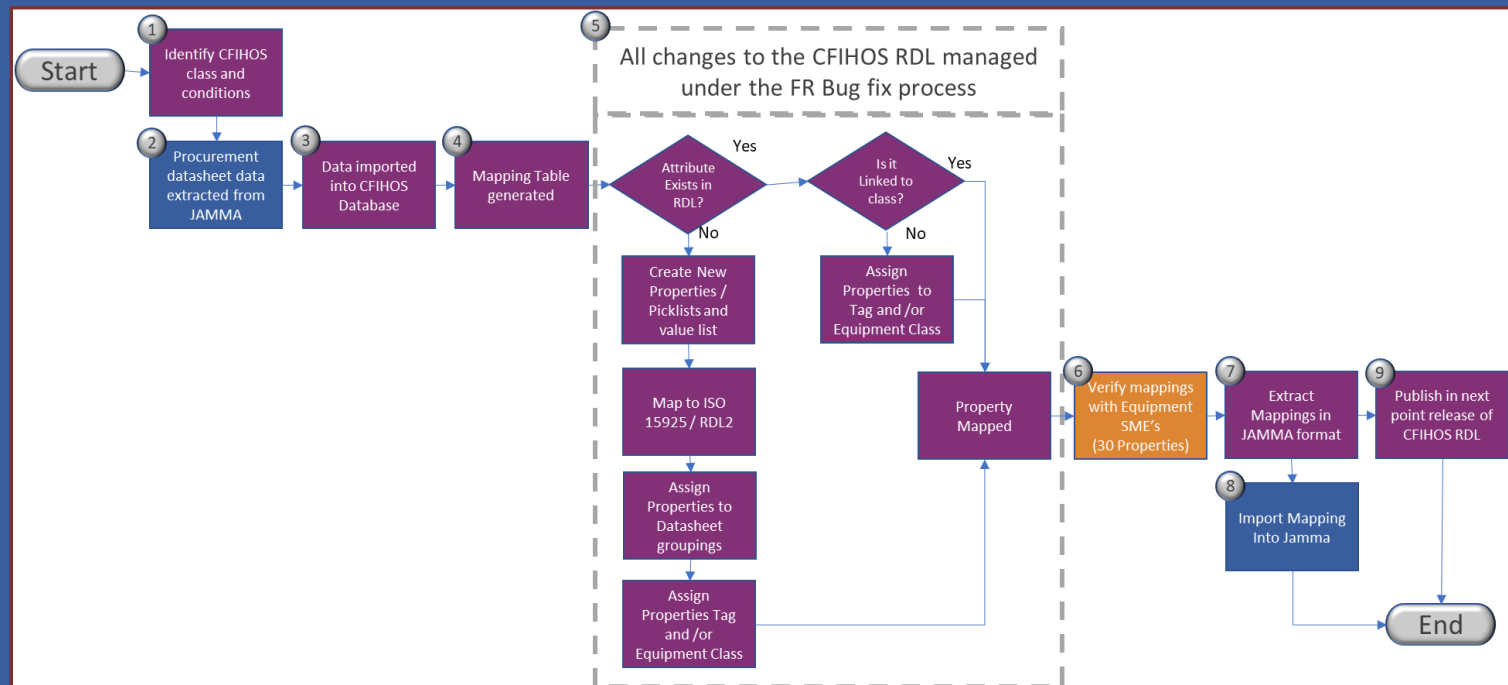
- ### Why Align
- CFIHOS is foundational to the development of the IRS and procurement data sheet
 - Enables interoperability whilst respecting the language of the base standard
 - Humanly readable
 - Machine to machine
 - Give clear line of sight from CFIHOS classes & attributes to the JIP33 specification
 - Information Requirements Specification (IRS) both data and documents
 - Procurement Data Sheet (PDS) and base Standard



CFIHOS and JIP33 Alignment Process

Alignment Process

- Dedicated working group from CFIHOS and the JIP33 information network
 - Following the CFIHOS FR process
 - With a specific workflow between CFIHOS and JIP33
- CFIHOS data model update in V1.5 to support the Information Requirements Specification (IRS) both data and documents, Procurement Data Sheet (PDS)
- CFIHOS and JIP33 Discipline Document types aligned
- Mapping of JIP33 Classes and Attributes to the CFIHOS Reference Data Library (RDL) for both data and documents
- Enrichment of the CFIHOS RDL to close any gaps identified by the JIP33 Specifications, IRS and PDS
 - Allocating CFIHOS unique IDs to additions to the RDL as we go



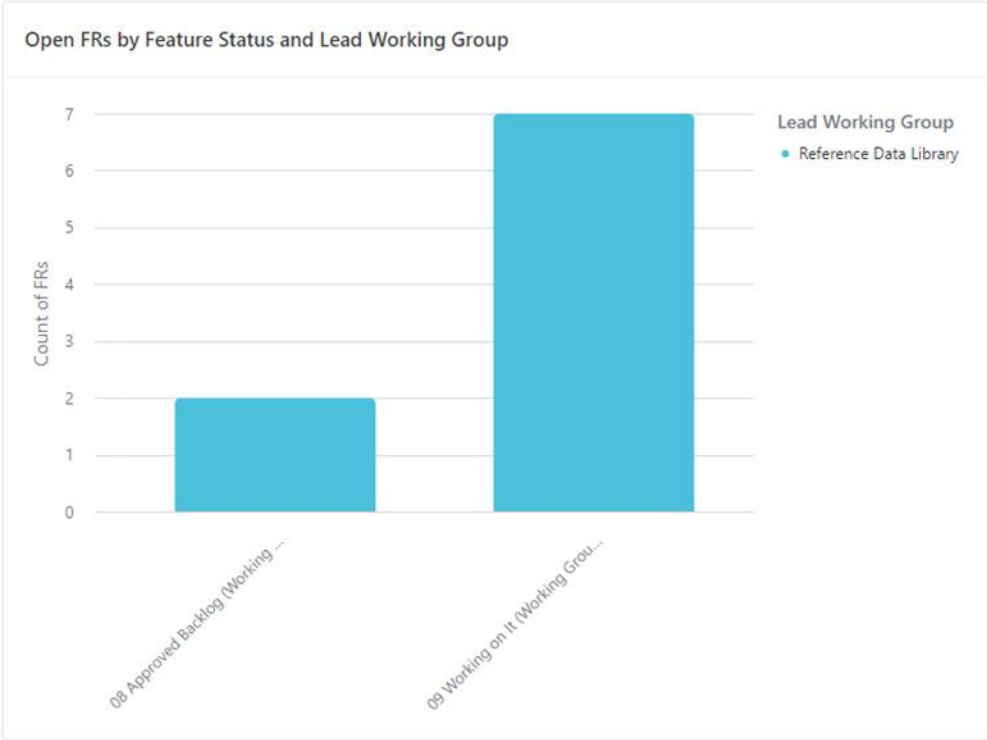
CFIHOS and JIP33 Alignment Status

Total Count of JIP33 FRs
12

Count of FRs Planned for Next Release
7

Count of FRs on Hold
0

Count of FRs Already Released
3



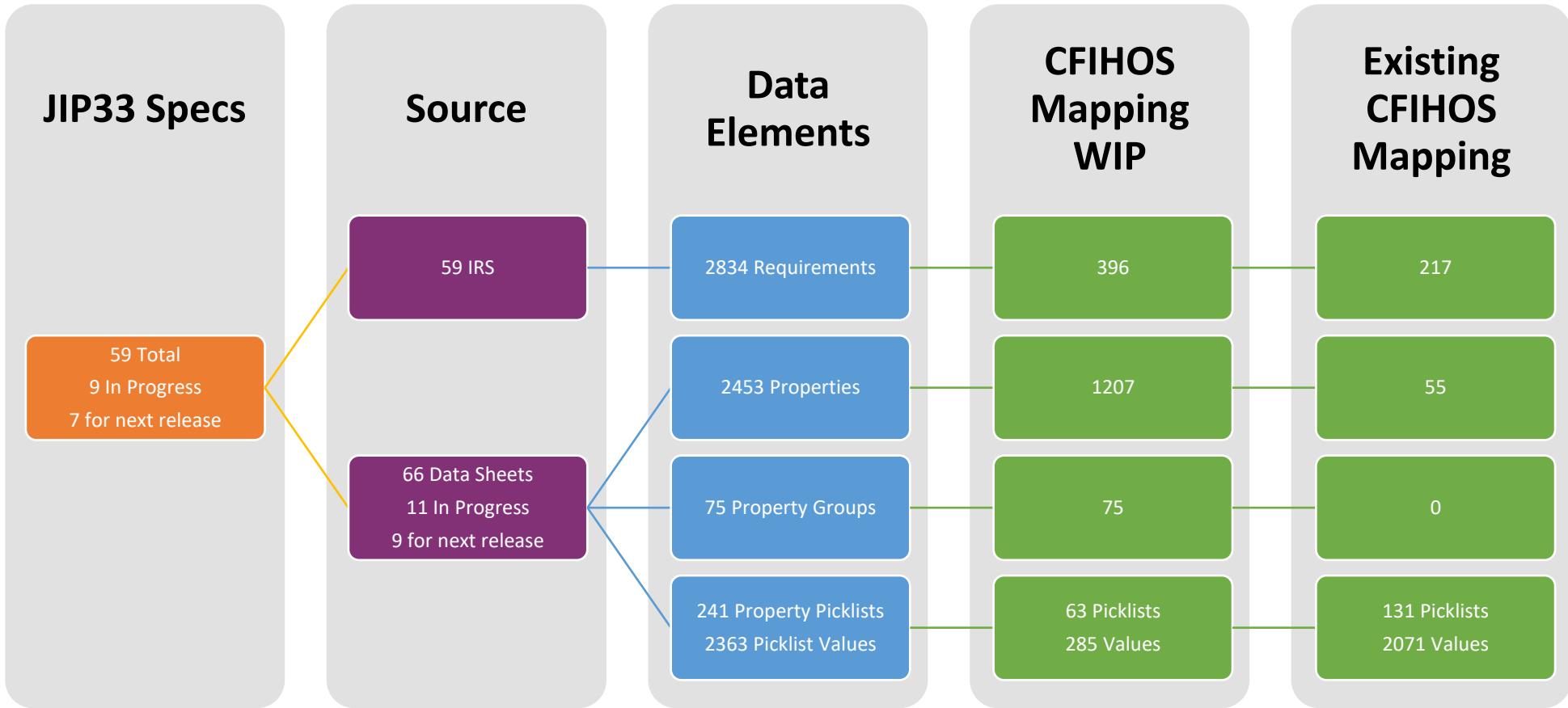
List of Individual FR Records (all FRs)

<input type="checkbox"/>	Name	Feature Status	Planned for next rele...	Lead Working Group
1	FR109 - JIP33 Alignment: S-733 Low Voltage Motors (IEEE Std 841)	09 Working on It (Worki...	Yes	Reference Data Library
2	FR108 - JIP33 Alignment: S-704 High Voltage Three Phase Cage Induc...	08 Approved Backlog (...)	Yes	Reference Data Library
3	FR95 - JIP33 Alignment: S-729 Control Valves	08 Approved Backlog (...)		Reference Data Library
4	FR94 - JIP33 Alignment: S-615 Pumps – Centrifugal to API Std 610	09 Working on It (Worki...	Yes	Reference Data Library
5	FR87 - JIP33 Alignment: S-719 Water Fire Mist Protection Systems	09 Working on It (Worki...		Reference Data Library
6	FR86 - JIP33 Alignment: S-562 Ball valves	09 Working on It (Worki...	Yes	Reference Data Library
7	FR85 - JIP33 Alignment: S-620 HV Switchgear & Control Gear to IEC	09 Working on It (Worki...	Yes	Reference Data Library
8	FR84 - JIP33 Alignment: S-560 LV Switchgear & Control Gear to IEC	09 Working on It (Worki...	Yes	Reference Data Library
9	FR83 - JIP33 Alignment: S-703 Low Voltage Motors to IEC	09 Working on It (Worki...	Yes	Reference Data Library
10	FR16 - Align CFIHOS Discipline Document Types with JIP33	12 Released (Backlog Te...		Document
11	FR15 - JIP33 Part 2 : Enable practical implementation of JIP33 via CFIH...	12 Released (Backlog Te...		Data Model
12	FR14 - JIP33 - CFIHOS RDL portion (part of former CR0016)	12 Released (Backlog Te...		Data Model

12 records

CFIHOS and JIP33 Alignment the detail

Based on latest JAMA extract received from JIP33



New Entity created in CFIHOS Data Model to support JIP33

Data Elements – total data elements identified by JIP33
CFIHOS Mapping WIP – number of JIP33 data elements in CFIHOS FRs scope for next revision
Existing CFIHOS Mapping – number of JIP33 data elements already included in CFIHOS

CFIHOS - V1.5.1 Standard Documents

CFIHOS V1.5.1 can be found on the CFIHOS Website. This version is considered to be the minimum viable product that can be successfully implemented either in parts or in its entirety.

Narrative Documents	Download Link
Scope and Procedures (C-TP-001) (V1.5.1)	CFIHOS Scope and Procedures
Specification Document (C-SP-001) (V1.5.1)	CFIHOS Specification Document
Implementation Guide for Principal (C-GD-001) (V1.5.1)	CFIHOS Implementation Guide for Principal
Implementation Guide for Contractor (C-GD-002) (V1.5.1)	CFIHOS Implementation Guide for Contractor
Bilingual Versions	Download Link
English-Chinese Bilingual CFIHOS Narrative Documents (V1.5.1)	English-Chinese Bilingual Narrative Documents
Reference Data Library	Download Link
Reference Data Library (C-ST-001) (V1.5.1) – Excel version	Reference Data Library (Excel version)
Reference Data Library (C-ST-001) (V1.5.1) – CSV version	Reference Data Library (csv version)
CFIHOS RDL Development Guide (V07)	CFIHOS RDL Development Guide
Data Model	Download Link
Using the Data Model (C-DM-001) (V1.5.1)	Using the Data Model
Data Dictionary (C-DM-002) – (V1.5.1)	Data dictionary V1.5.1
Data Model HTML viewer - V1.5.1	View Data Model viewer
Supporting Templates	Download Link
CFIHOS Contract Scenario Templates (V1.5.1)	CFIHOS Contract Scenario Templates
Previous Versions	Download Link
V1.5	Version 1.5
V1.4.1	Version 1.4.1

We will continue to develop and improve the content through point releases as we work towards our next version. Previous versions of CFIHOS can also be found here

<https://www.jip36-cfihos.org/cfihos-standards/>

Questions?



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