

DESIGN

CENTRIC

WORK PROCESS

2

Classification
Society

4

New vessel
delivered

1

Yard/Designer

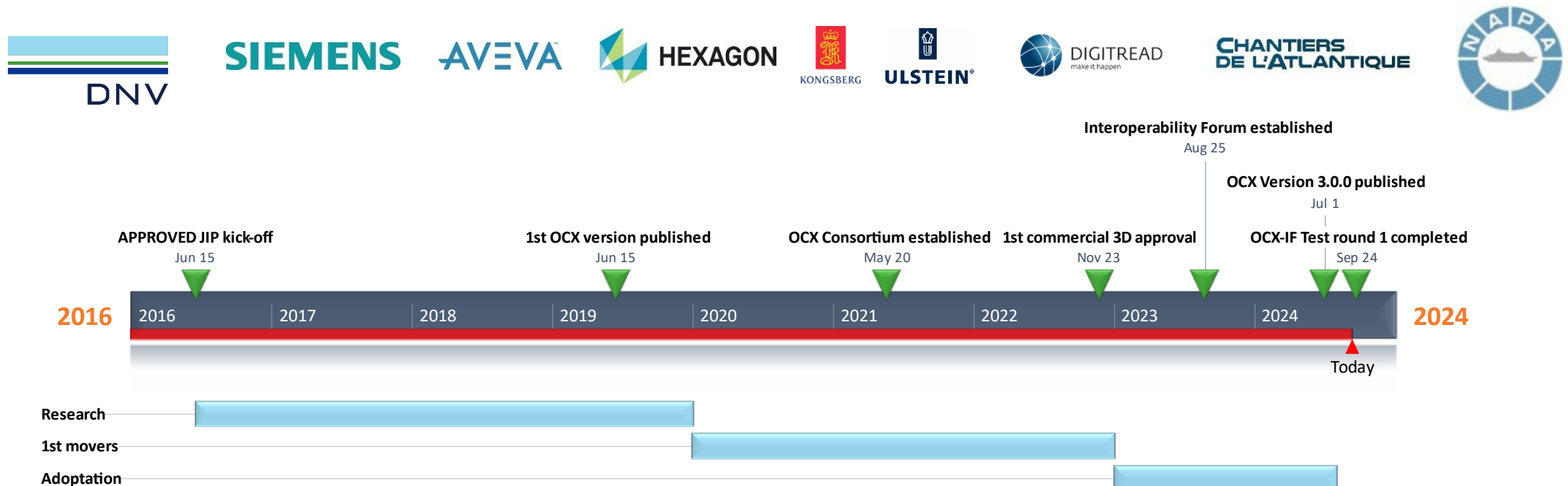
The OCX standard and the work by the OCX Consortium

OCX Chair

Our Journey

Can we replace traditional 2D class drawings with
a digital 3D information model?

In 2016, 9 players in the Maritime industry joined forces in the APPROVED JIP to
realise this bold ambition



Consortium Purpose



Increase maritime safety through transparent design documentation and processing of data concerning the design, verification and inspection of ships and floating offshore assets.



Support the evolutions of the OCX standard and promote its use in the marine industry.



Establish Conformance Classes to approve that the files exchanged by an application are in line with the standard.



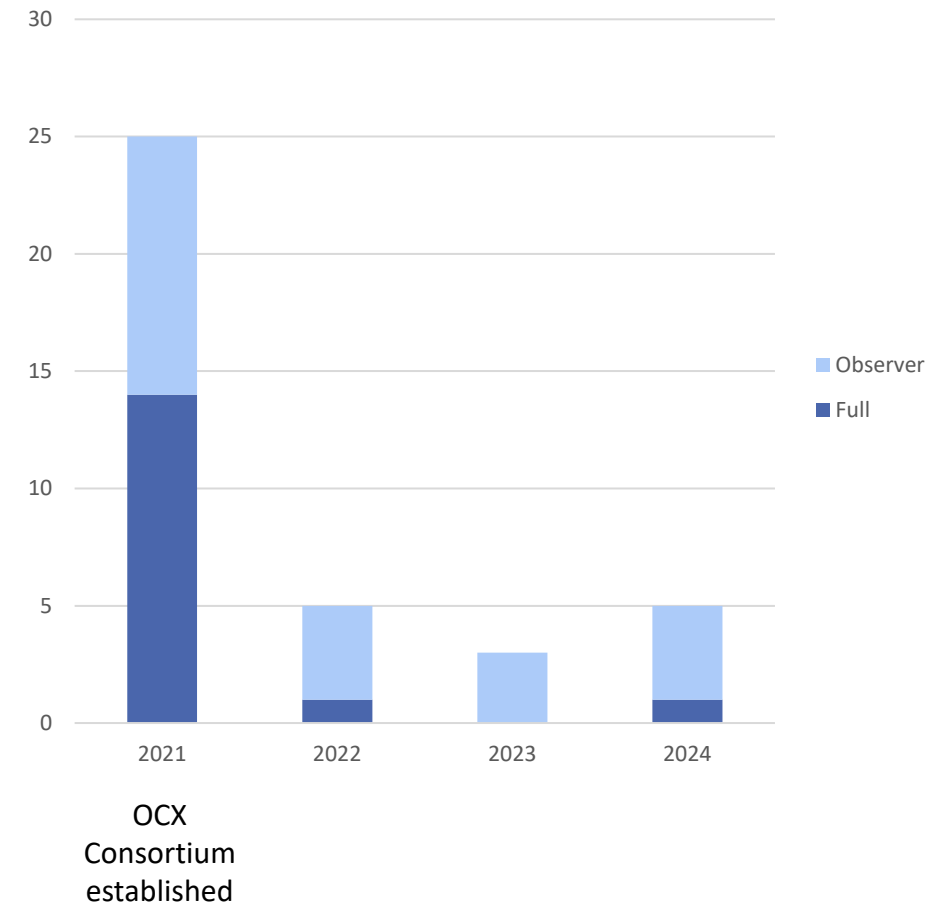
Act as a source of information on the development and implementation of OCX standard in the maritime industry.



Encourage implementation and use of software interfaces according to the OCX standard.

Consortium Membership Status

- 38 members
- 16 full members
- 22 observers



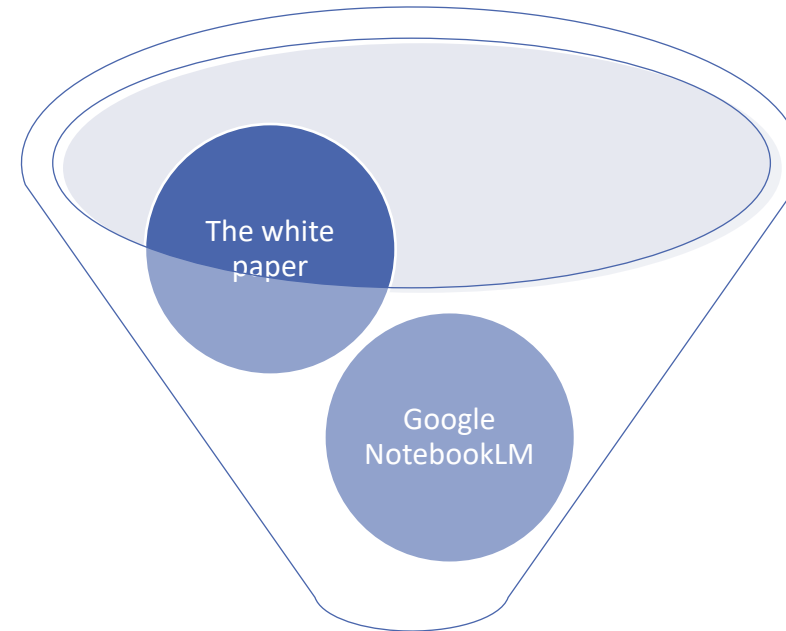
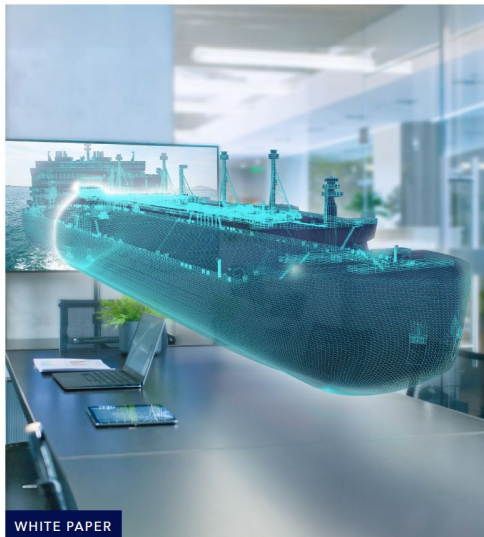
The Open Class 3D eXchange (OCX) standard



WHEN TRUST MATTERS

PAVING THE WAY FOR 3D MODEL-BASED CLASS APPROVAL

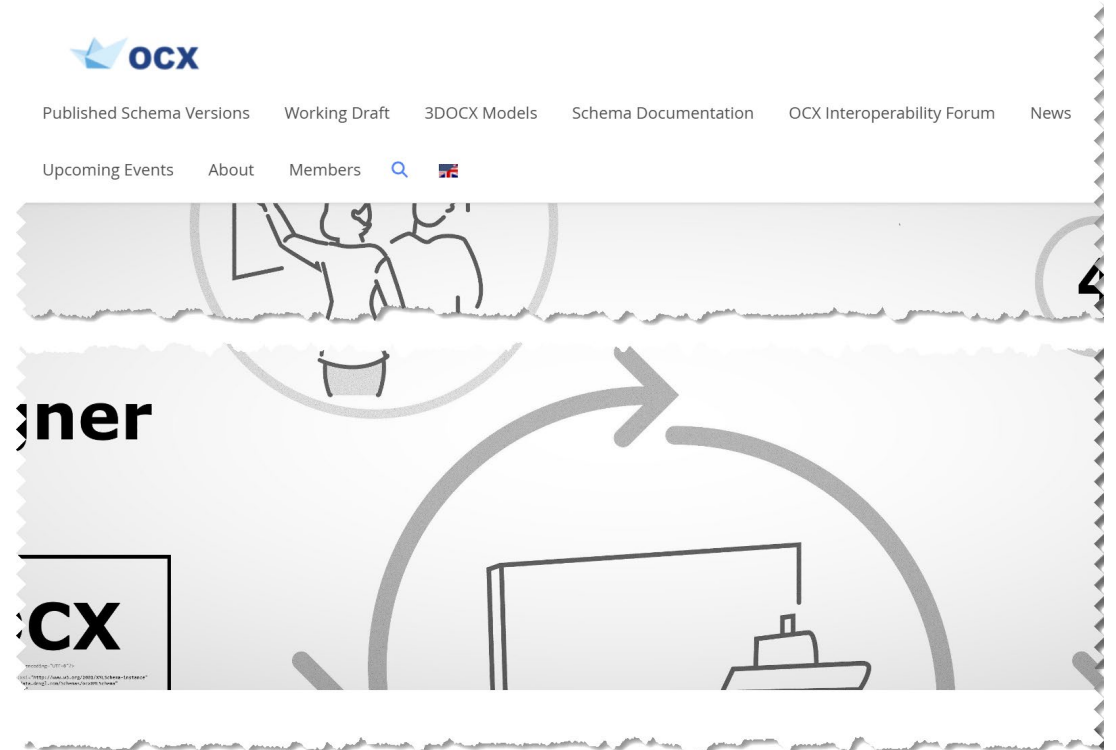
Streamlining and accelerating the use of 3D models
in the approval process.



Podcast about the OCX

Consortium Artifacts

- <https://3docx.org>
 - Our main communication channel for about, news, the published schema, events and other information.
- <https://ocxwiki.3docx.org>
 - The OCX documentation
- <https://github.com/OCXStandard>
 - The repository for the OCX schema
- OCX Validator
 - The OCX conformance classes. Validation of a 3Docx model against the published version of the OCX standard <https://github.com/OCXStandard>





OCX Interoperability Forum

The OCX Interoperability Forum aims to accelerate the delivery of production level, use-case tested functionality and cross-platform OCX-based workflows to the market

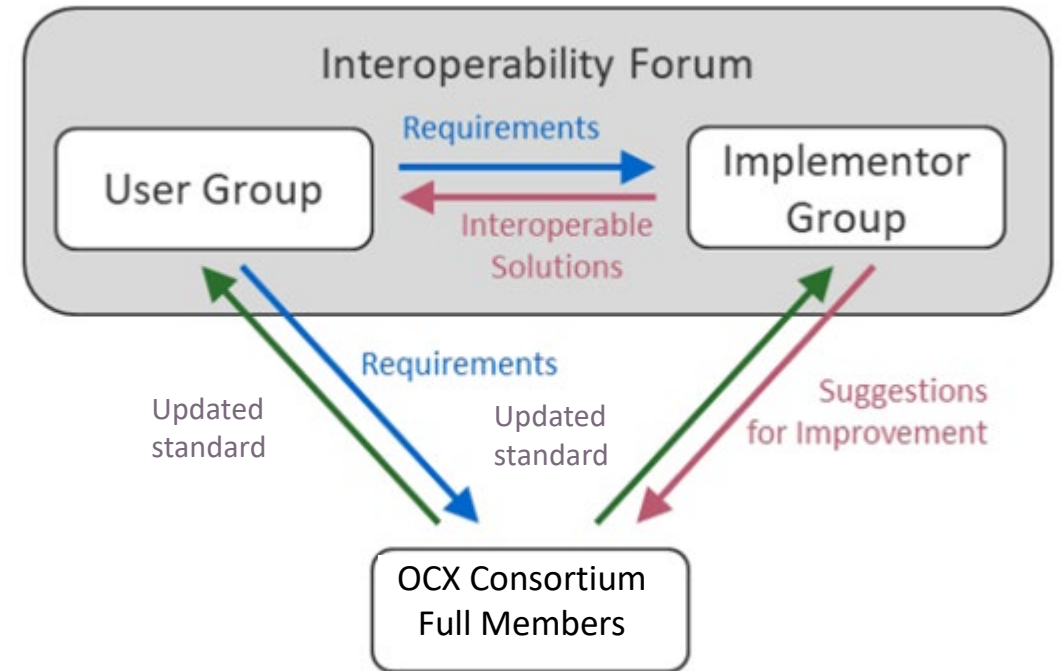
The organisation of the OCX Interoperability Forum

A three-party relationship:

1. The Implementor/ Interoperability Forum

- A **User Group** representing end-users
- An **Implementor Group** representing SW vendors & classification societies implementing OCX support

2. The OCX Consortium \equiv Standards Community



OCX-IF Operation

Major milestones

August 23	• The OCX IF is formally established
Aug 23,	• Facilitation Team in place
Sep 23	• Test Round #1 kick-off meeting, Hamburg
Dec 23	• OCX-IF SC meeting. 2024 budget agreed
Jan 24	• SSI and Dassault joined
Mar 24	• OCX Schema 3.0.0 release candidate
Jun 24	• OCX Full Member SC meeting
Sep 24	• Completion of test round # 1

Publish of OCX Schema 3.0.0 and completion of test round #1

OCX Implementor Forum Participants

#	Company	Role	Joined
1	DNV	Implementor	August 2023
2	BV	Implementor	August 2023
3	LR	Implementor	August 2023
4	Türk Lloyd	Implementor	August 2023
5	Korean Register	Implementor	August 2023
6	Cadmatic	Implementor	August 2023
7	NAPA	Implementor	August 2023
8	PROSTEP	Implementor	August 2023
9	Kongsberg Maritime	End User	August 2023
10	NDAR	End User	August 2023
11	Chantiers de l' Atlantique	End User	August 2023
12	Dassault Systèmes	Implementor	January 2024
13	SSI Ship Constructor	Implementor	January 2024

The OCX-IF Facilitation Team



Ole Chr. Astrup,
DNV

Coordinator



Mike Polini,
Independent

Facilitator



Ivelin Peychev,
Razorleaf
Corporation

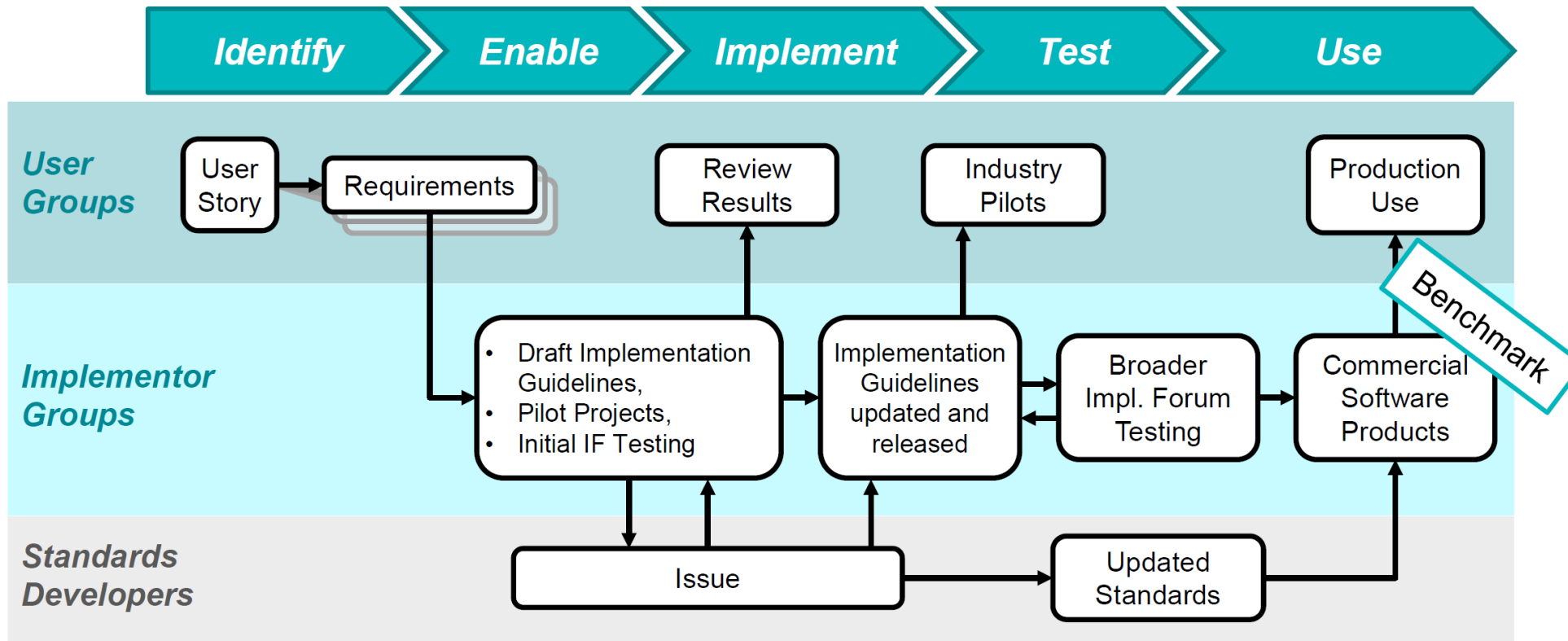
Facilitation Team



Hugues Moreau,
BV

Facilitation Team

Way of working between Users, Implementors and Standards developers

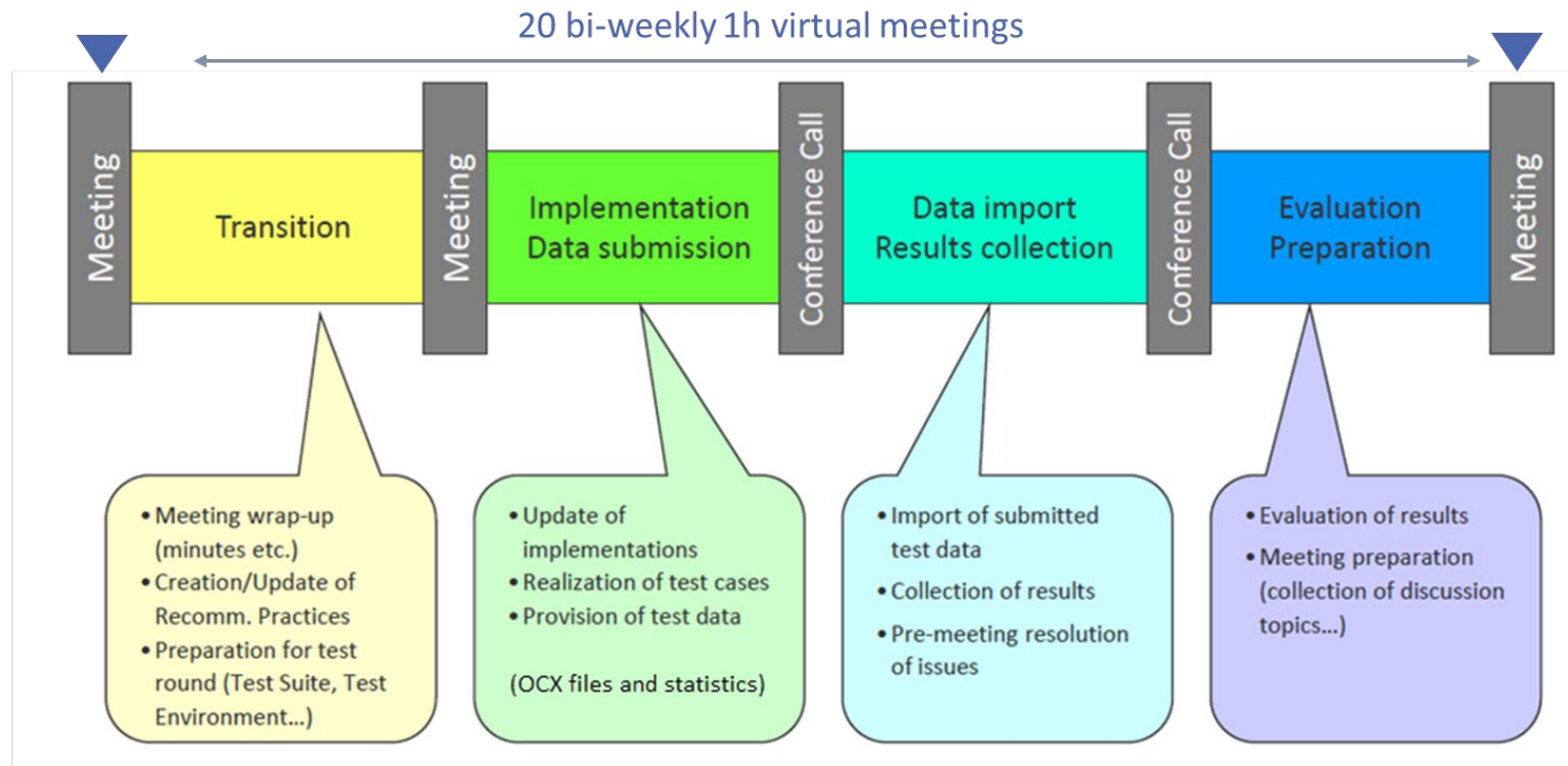


*Provided by courtesy of PROSTEP Ivip

OCX-IF Test Round #1 Timeline

Sep 2023: Test Round #1 kick-off

Sep 2024: Test Round #1 completion

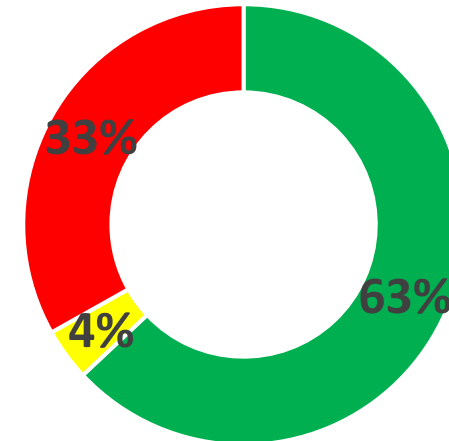


Test Round #1 Summary (preliminary)

Test Round # 1 summary

- 9 Test Cases (2 to 19 metrics)
- 5 vendors exporting OCX
- 6 Vendors importing OCX
- 935 metrics tested and verified

Test Round 1 Aggregated Results



■ Pass ■ Partial ■ Fail