

TPF-5(372) BIM for Bridges and Structures

Annual Software Vendor Workshop

20-22 July 2021

Day 3 - Thursday, 22 July 2021



BIM FOR
BRIDGES
AND STRUCTURES
TPF-5(372)

Workshop Structure & Schedule

Participants

HDR Project Team

TPF Sponsors

CBS T-19 Committee

Software Vendors

Invited Observers

Mics are muted by default

Vendors, please use “Raise hand” to request unmute

Guests/Observers please enter questions in Chat

Sessions will be recorded for future reference

Tuesday 20 July	Time	Session	Objectives
	9:00am-10:20am	Updates on TPF-5(372)	<ul style="list-style-type: none"> Overall Schedule / Scope review IDM / MVD Data Dictionary General Q&A
	10:20am-10:40am	Scheduled Break	
	10:40am-11:20am	Demo w/ Q&A: Allplan & LARSA	Demonstrate early development progress and/or intent to support “BIM for Bridges and Structures”
11:20am-12:00pm	Demo w/ Q&A: PGSuper		

Wednesday 21 July	Time	Session	Objectives
	9:00am-10:20am	Review of Software Vendor Engagement Plan	<ul style="list-style-type: none"> Letter of Intent Unit Test Suite Certification General Q&A
	10:20am-10:40am	Scheduled Break	
	10:40am-11:20am	Demo w/ Q&A: Bentley Systems	Demonstrate early development progress and/or intent to support “BIM for Bridges and Structures”
11:20am-12:00pm	Demo w/ Q&A: OpenBrIM		

Thursday 22 July	Time	Session	Objectives
	9:00am-10:20am	bSI IFC4.3 Progress	<ul style="list-style-type: none"> Candidate Standard status Feedback from participating Vendors on results General Q&A
	10:20am-10:40am	Scheduled Break	
	10:40am-11:20am	Demo w/ Q&A: Autodesk	Demonstrate early development progress and/or intent to support “BIM for Bridges and Structures”
11:20am-12:00pm	Demo w/ Q&A: Trimble – Quadri & Tekla Structures		

Today's Schedule – Day 3

Thursday 22 July	Time	Session	Objectives
	9:00am-10:20am	bSI IFC4.3 Progress	<ul style="list-style-type: none">▪ Standard status<ul style="list-style-type: none">- Phase 1 of IFC4.3 Deployment- ISO Submittal and Process▪ Feedback from participating Vendors on results▪ General Q&A
	10:20am-10:40am	Scheduled Break	
	10:40am-11:20am	Demo w/ Q&A: Autodesk	Demonstrate early development progress and/or intent to support “BIM for Bridges and Structures”
	11:20am-12:00pm	Demo w/ Q&A: Trimble – Quadri & Tekla Structures	

buildingSMART International - IFC4.3 Development Progress

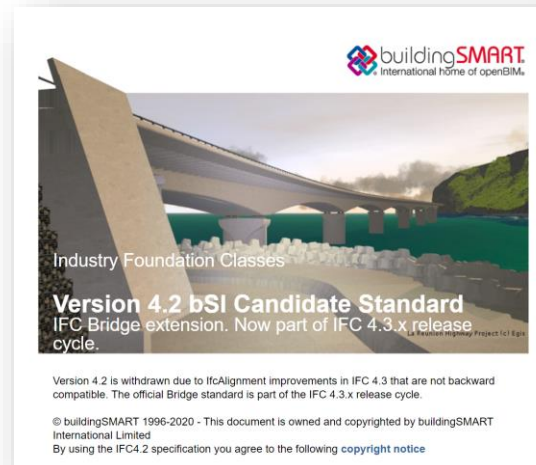
The Road: IFC4 -> IFC 4.3

IFC4: Revisions to IFC2x3 (Building-focused)

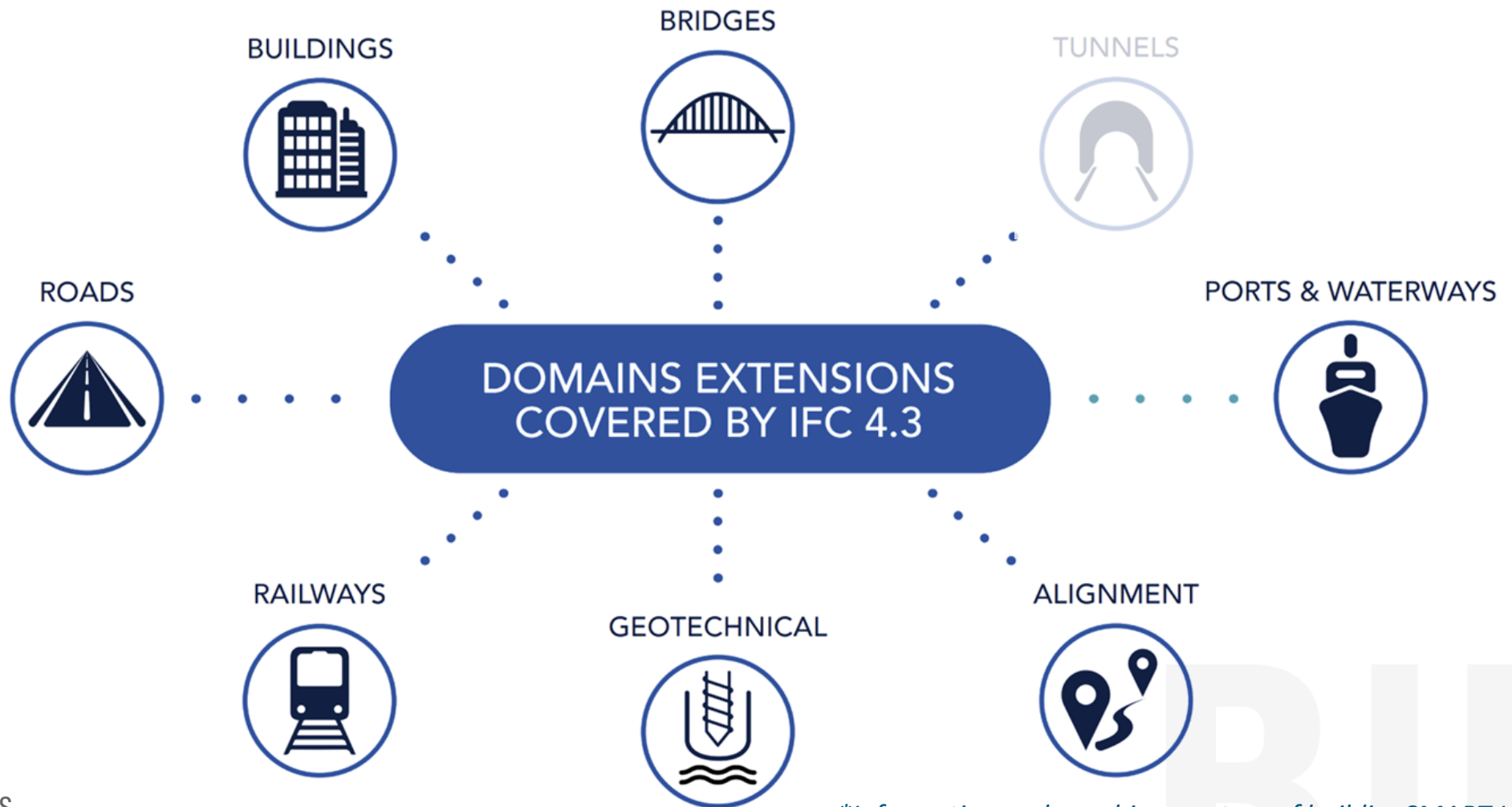
IFC4.1: Alignment for Linear Infrastructure

IFC4.2: Bridge Elements (Phase 1)
Adding new Spatial classes
(IfcFacility/IfcFacilityPart)

IFC4.3: Adding Rail, Road, Geotechnical, Ports
& Waterways, & Bridge (Phase 2)
Rework of IfcAlignment (not backward
compatible with IFC4.2 or IFC4.1)

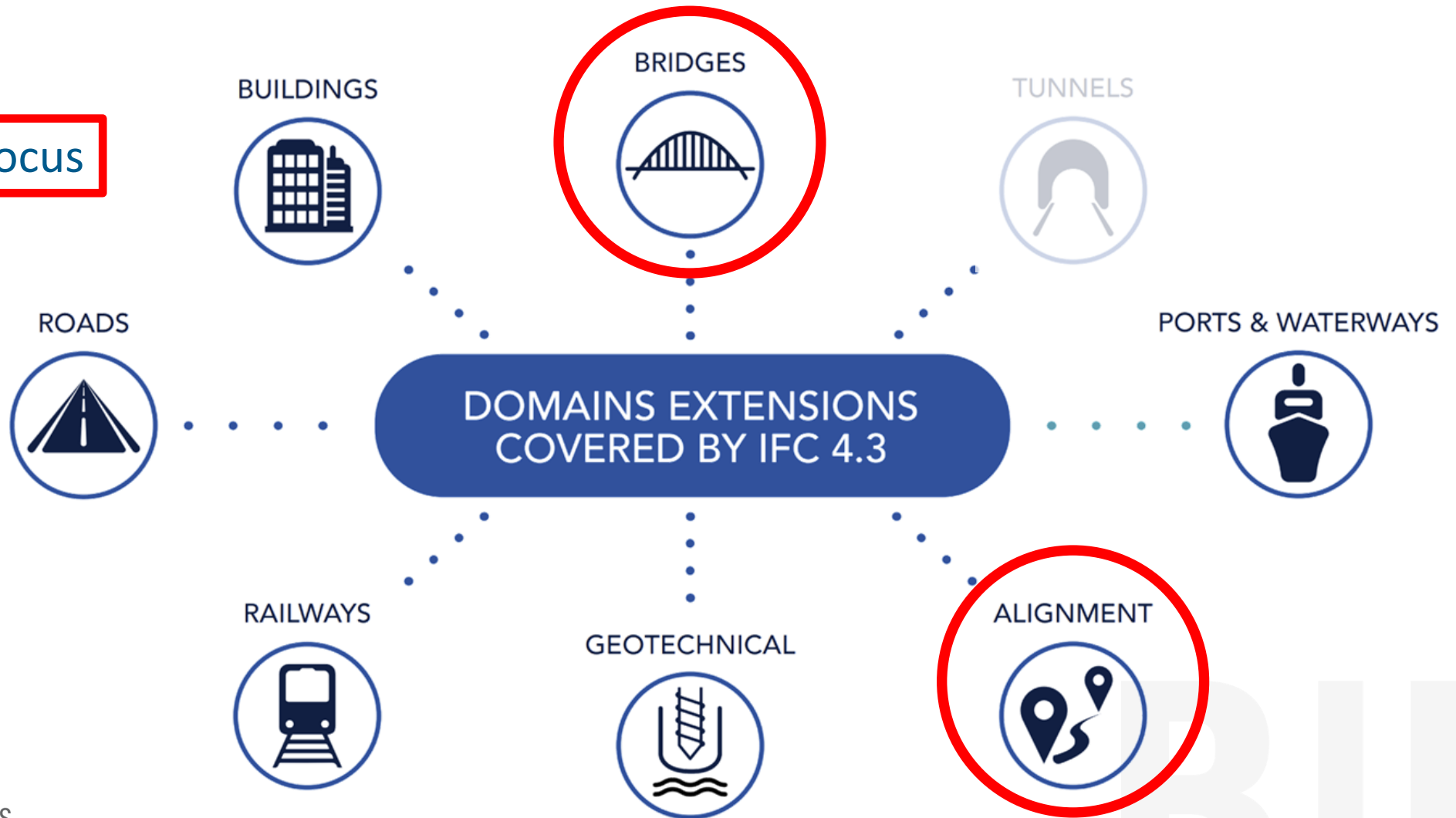


Domains in the new IFC 4.3 standard

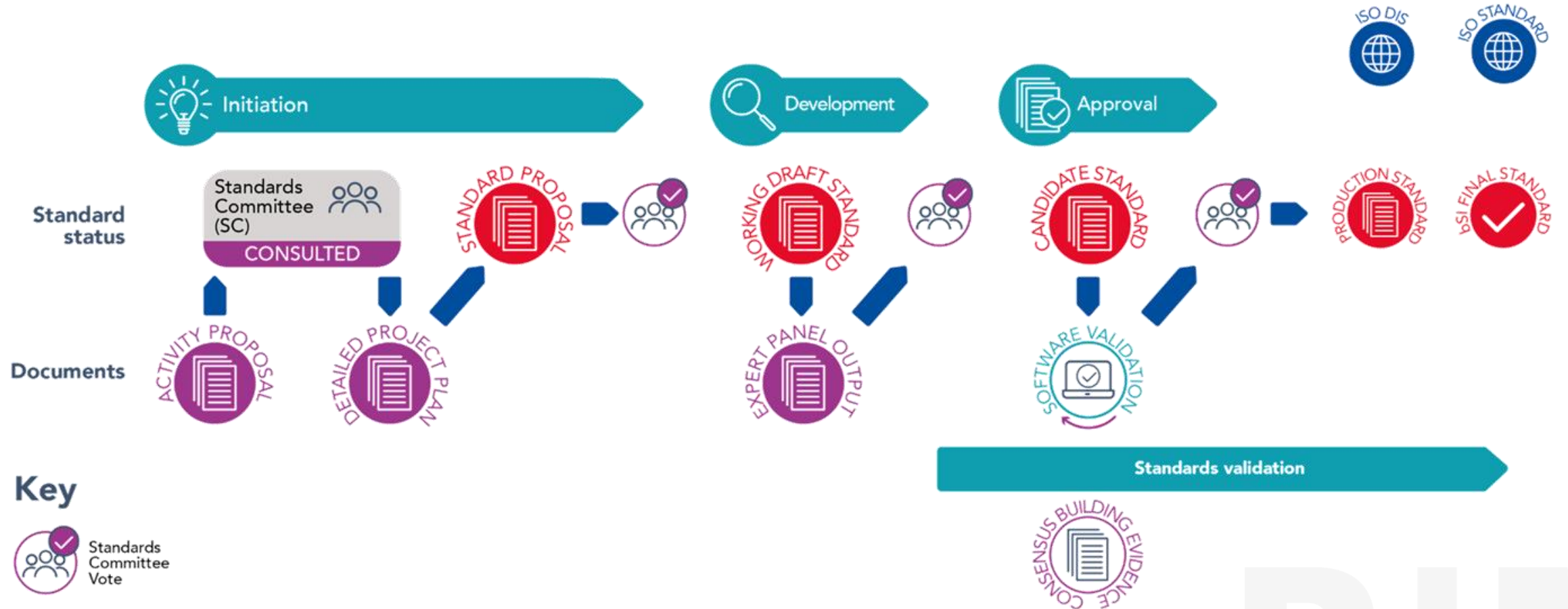


Domains in the new IFC 4.3 standard

TPF-5(372) Focus



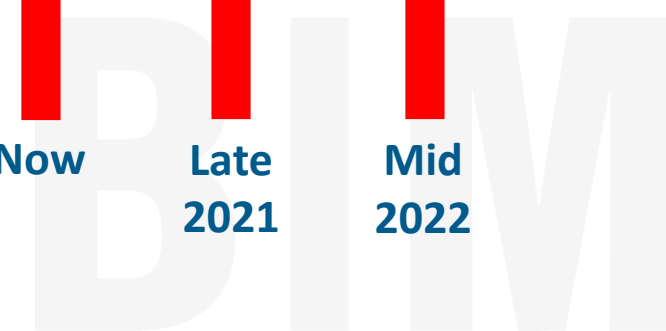
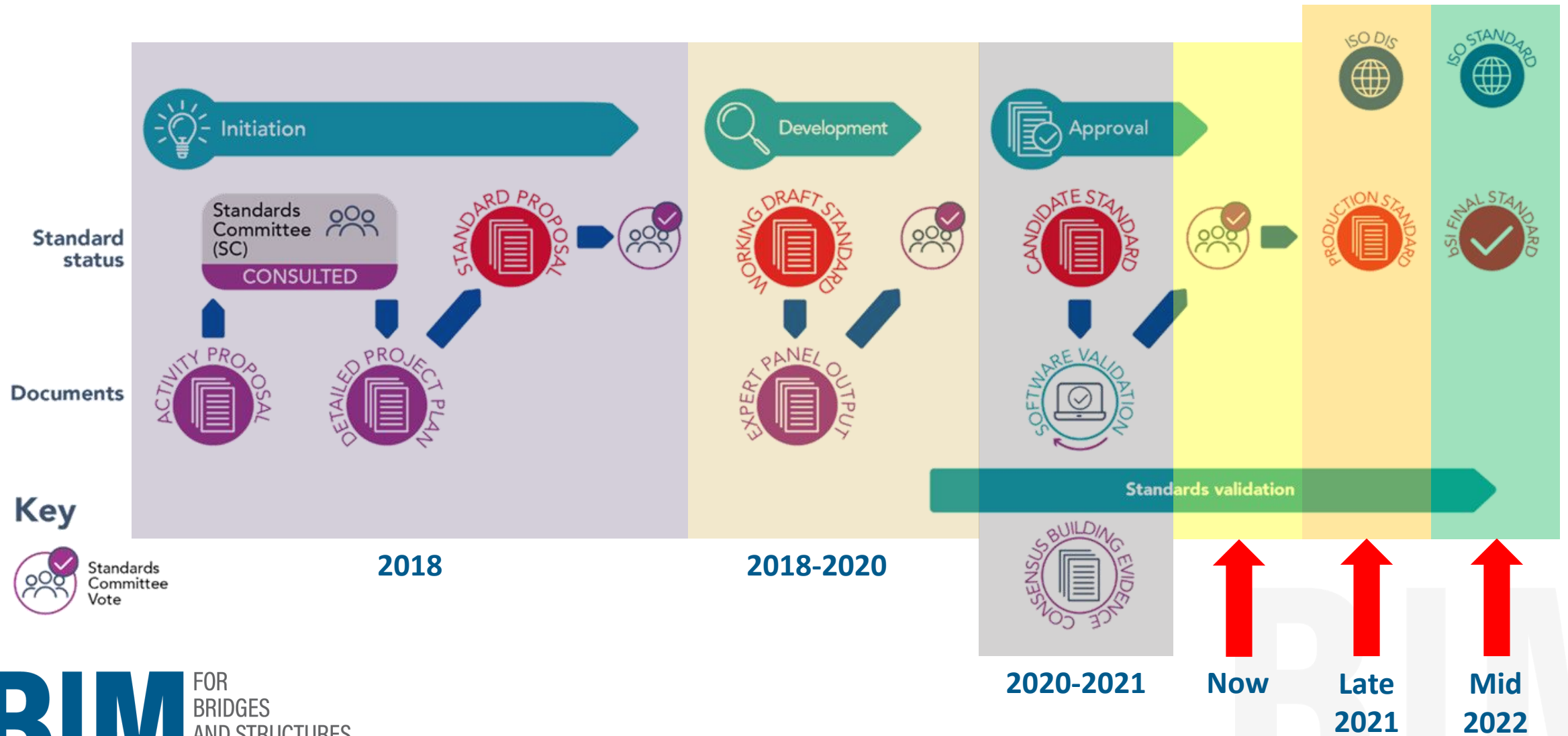
bSI Process



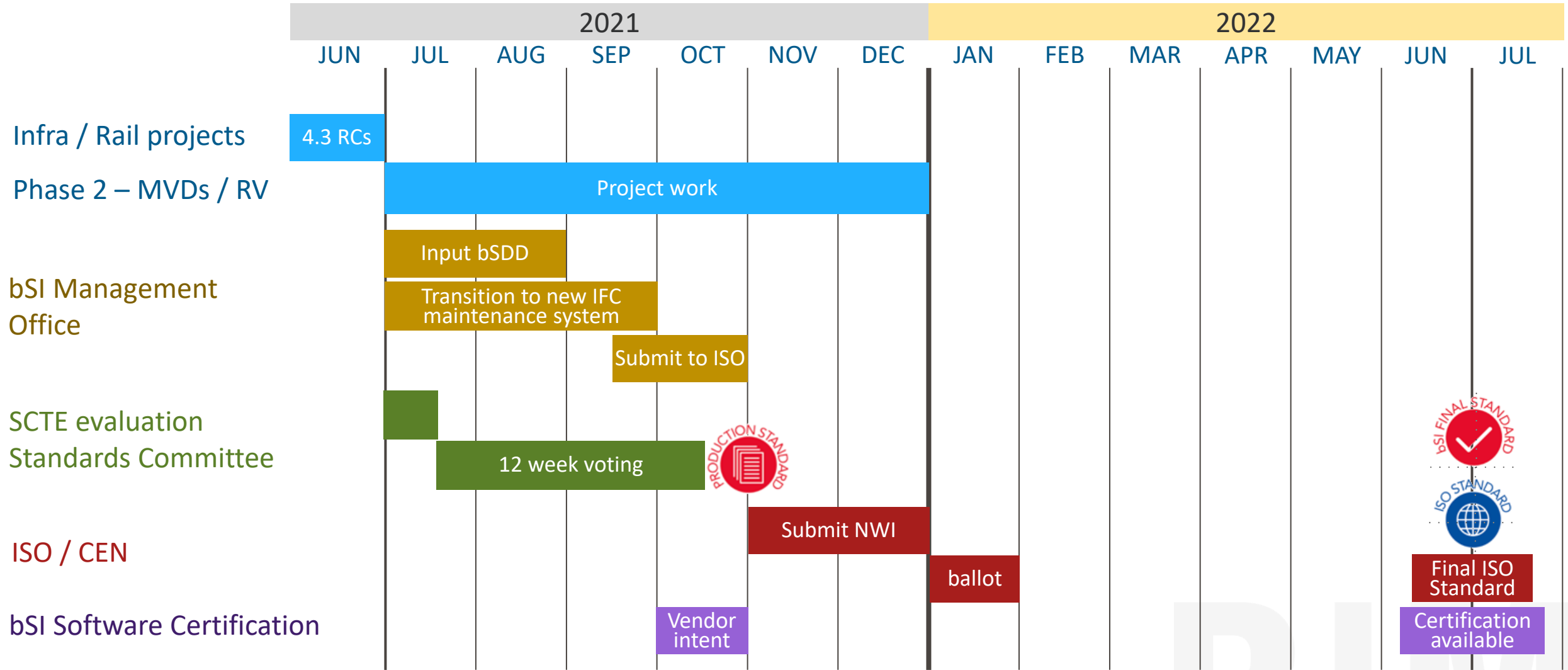
Key



bSI Process: IFC4.3 Progress



IFC 4.3 Timeline



Vendor Feedback Roundtable

Who has been involved (observer or active) with the buildingSMART IFC4.3 Rail and/or Infra Deployment projects?

Were you able to be actively involved with testing IFC4.3 through the unit testing import?

Have you identified any serious issues concerning support implementation (export and/or import) based on the latest know state of IFC4.3?

Do you feel your products can meet the goals and timeline of functionality and certification by the end of 2023?

What further support do you feel you will need moving forward with your IFC4.3 and AASHTO support development?

General Q & A

Day 3 Demos

Autodesk – 40 mins.

Trimble: Quadri & Tekla – 40 mins.