

Welcome to Singapore

Richard Petrie

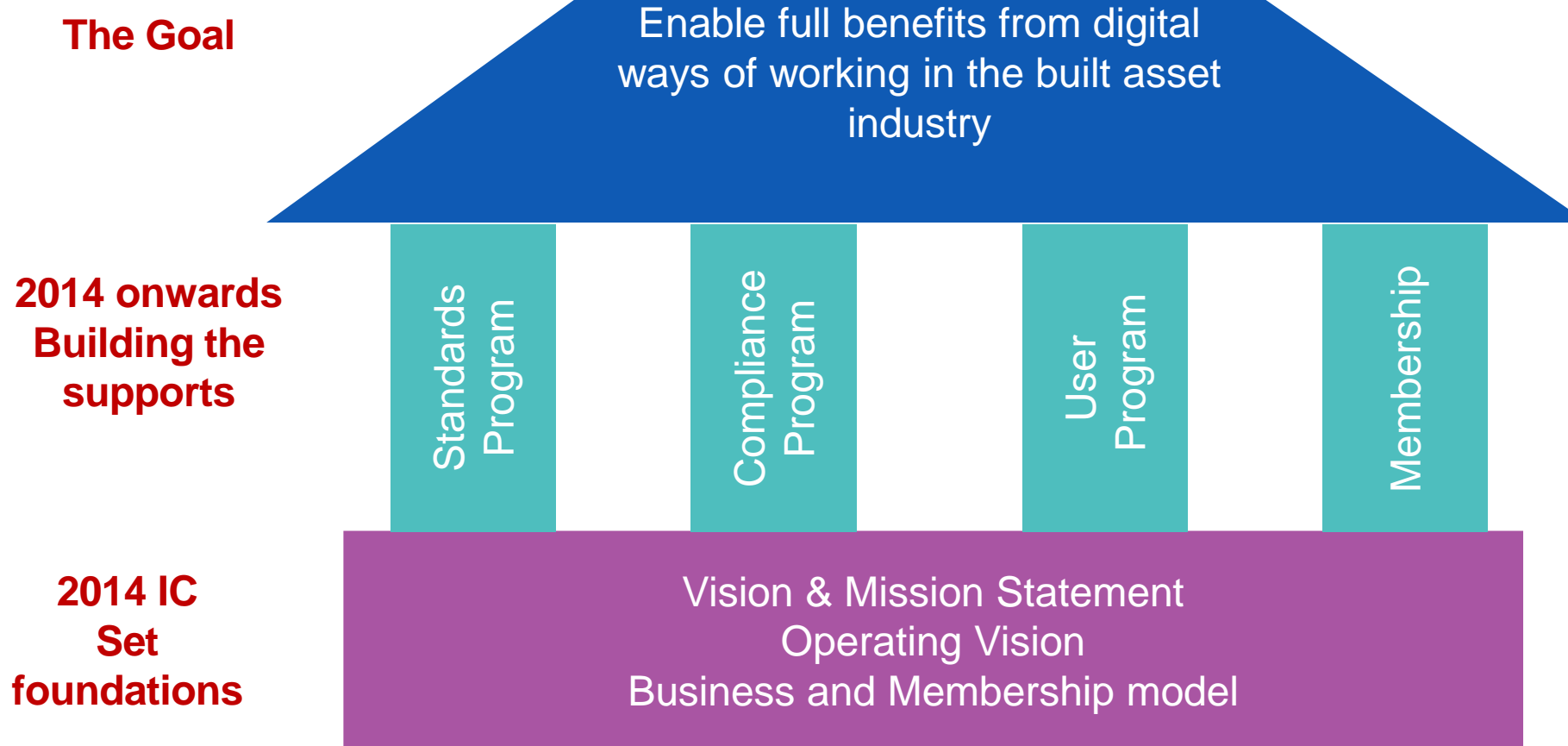
CEO buildingSMART International

12th October 2015

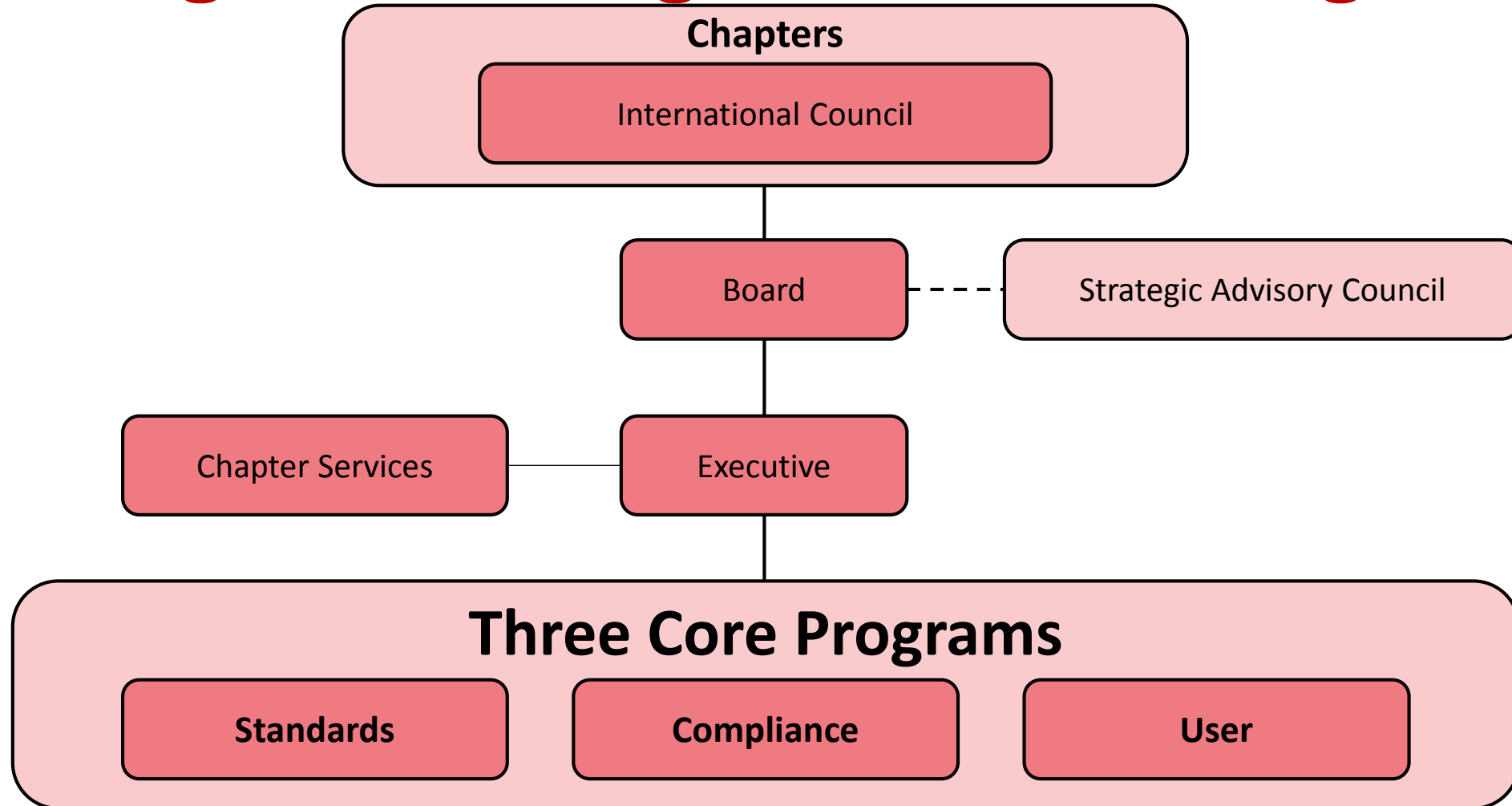
Framing – the last two years

Establishing the Strategy & Business Organisation

Our Strategy

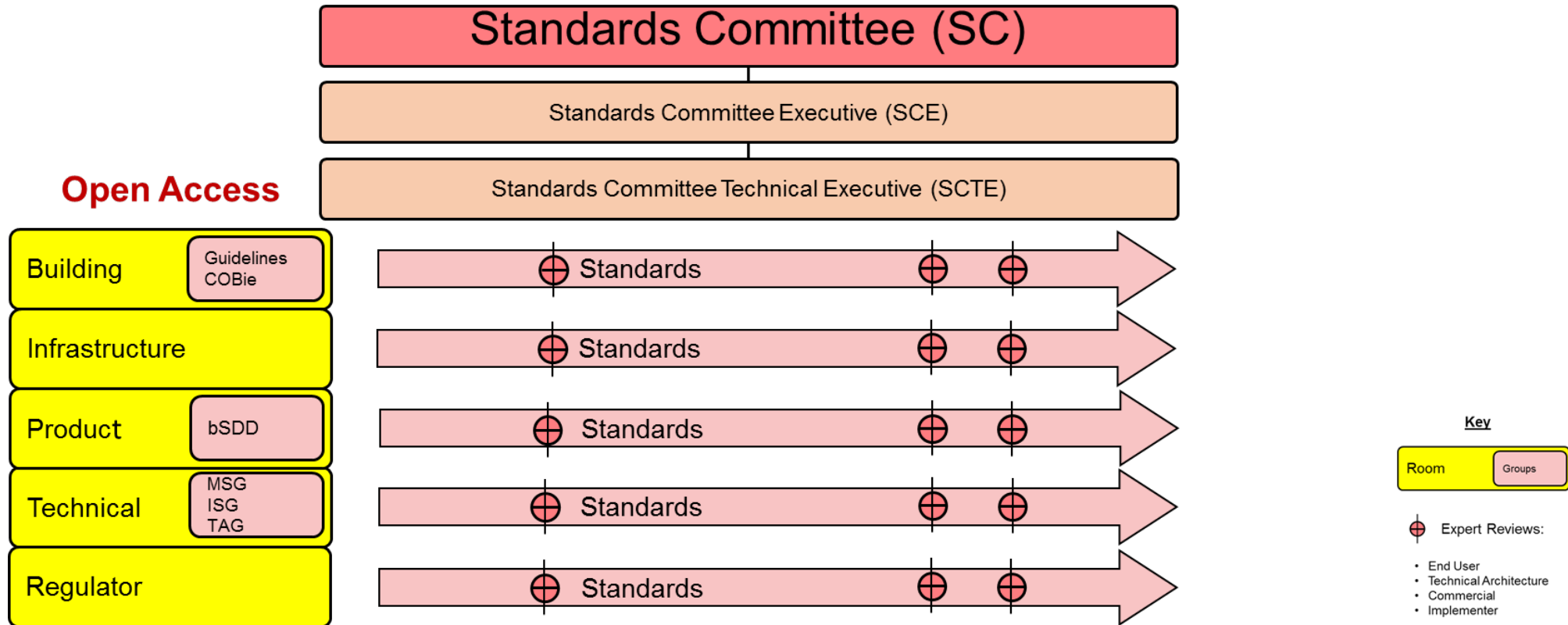


buildingSMART Organization & Programs



Standards Process Development

Chapters & Members



Standards Process Development

SCTE

- Harmonise technical issues
- Holistic consideration of technical issues
- Technical guidance

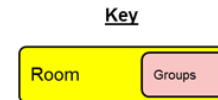
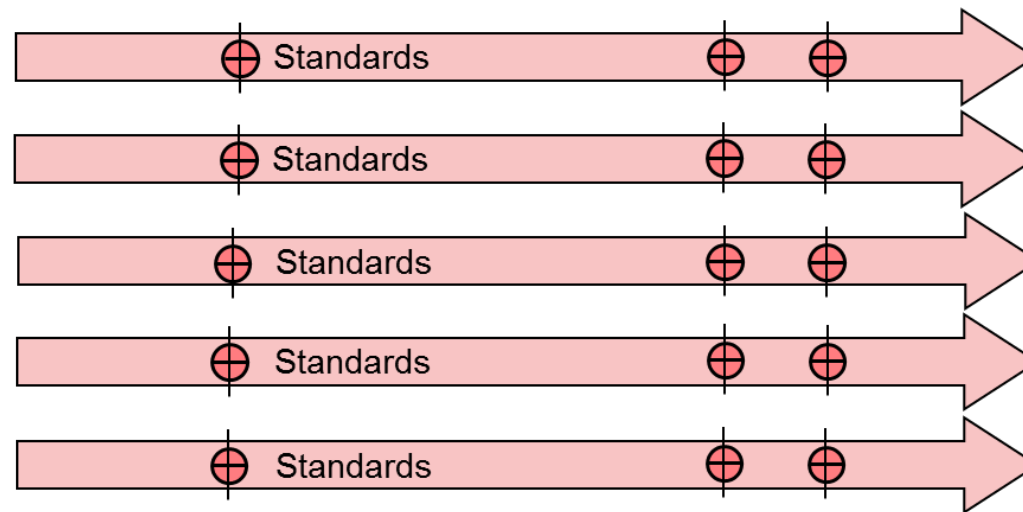
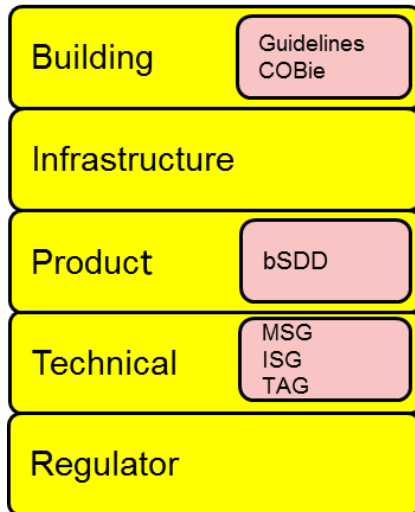
Chapters & Members

Standards Committee (SC)

Standards Committee Executive (SCE)

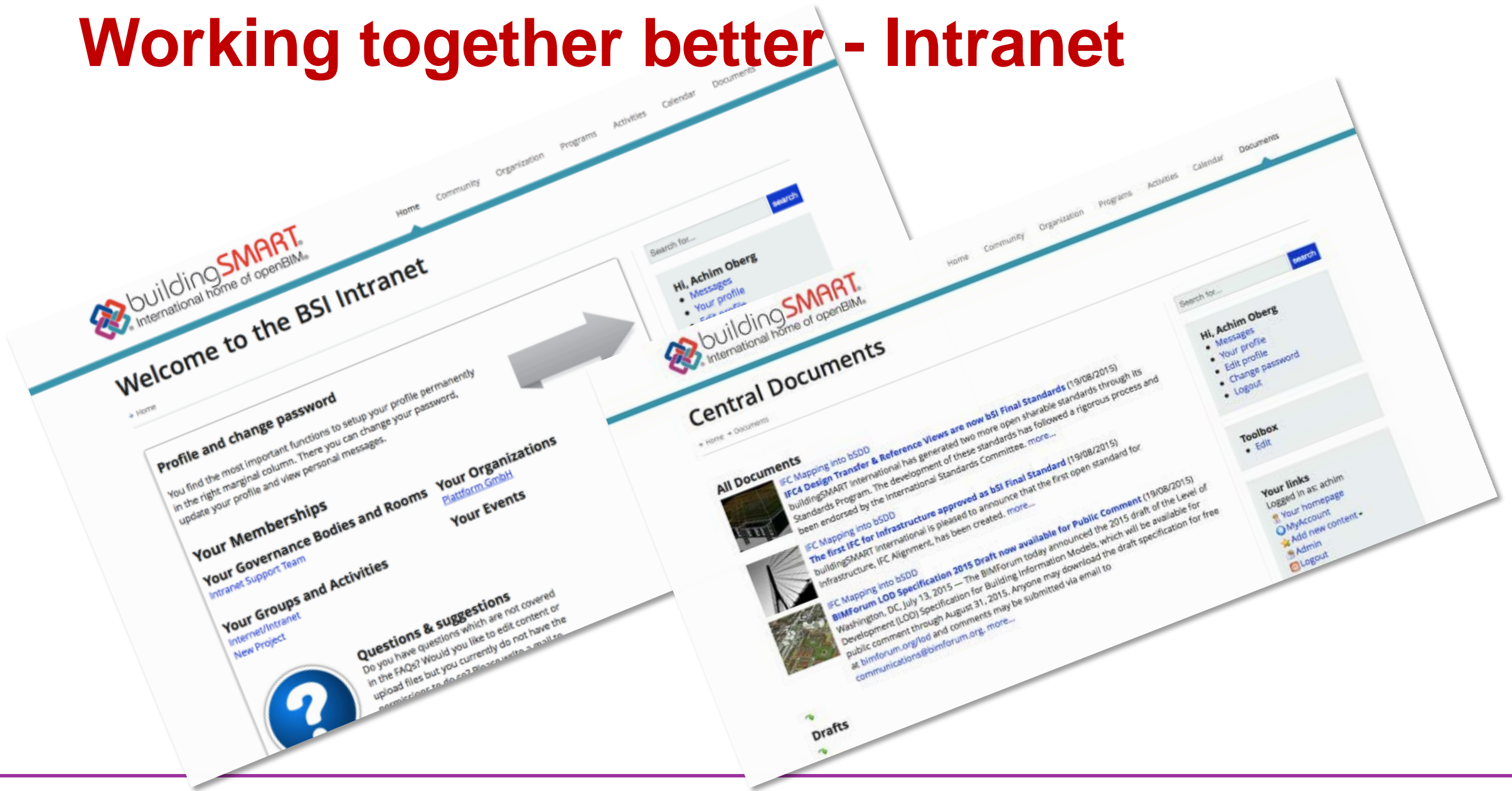
Standards Committee Technical Executive (SCTE)

Open Access



- Expert Reviews:
- End User
 - Technical Architecture
 - Commercial
 - Implementer

Working together better - Intranet



bSI Chapters



Coordinated roles – accelerating benefits

bSI

Leadership & Organisation inc:
Membership framework & rules

Core programs – organisation &
leadership

Web enabling: internet & intranet

International marketing & senior
influencer engagement

Benefits

Government,
business &
academia
support

Active use
open BIM

Development &
implementation
open
Standards

Benefits to the
built asset
industry

Chapters

In Country leadership

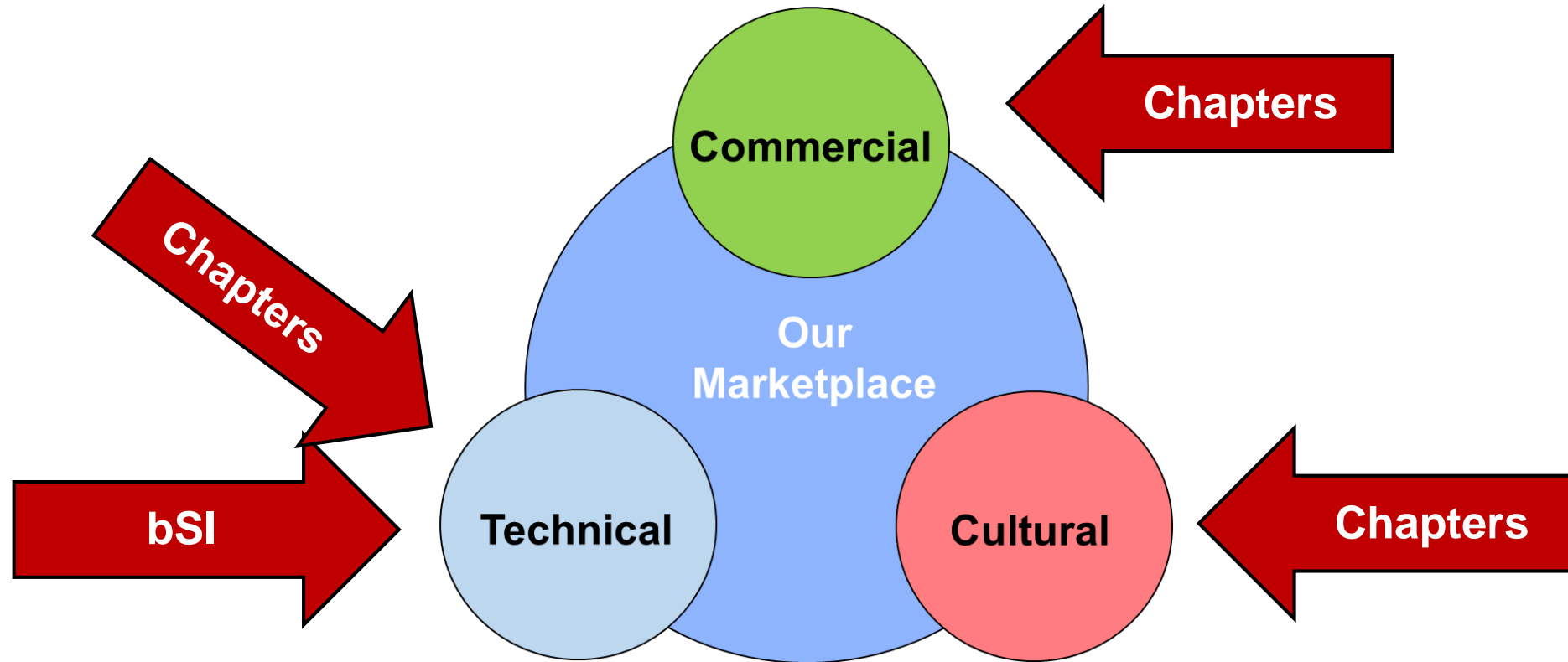
Generate support at the highest levels of
government, academia & business

Engagement with and Deployment to Users

Local solutions & localisation

Advanced implementation: work within bS
International programs
Standards
Compliance
User / Chapter

User: Chapters deliver today's needs



Tomorrow's needs is developed with buildingSMART International

Engagement

Partners



National Programs



France

Plan de Transition Numérique Bâtiment



Germany



Korea



Netherlands



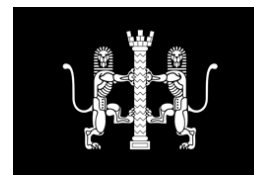
United Kingdom

bSI Members

ARUP



NEMETSCHKE
GROUP



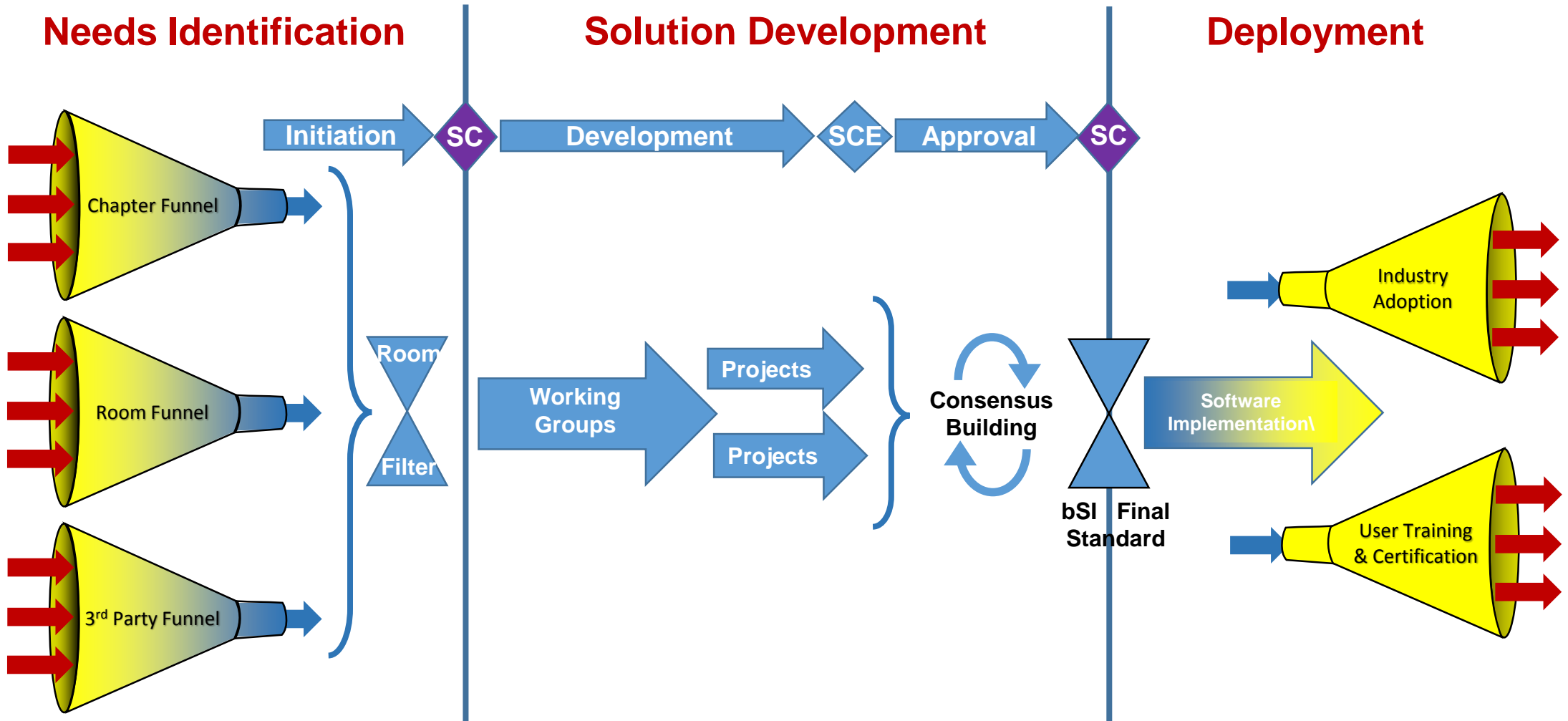
MEDI@CONSTRUCT



The work program

Managing the activities

Standards: International Harmonization



Current Activities

Building	Infrastructure	Technical	Product	Regulatory
ISO IDM Standard	IFC4 Infra alignment 1.0 (Deployment)	Linked building data ifcOWL	IFC mapping into bSDD	E-submission common guidelines
IDM for building programming	IFC Alignment next phase 1.1	mvdXML Trust in BIM deliverables	Data dictionary enabler	Automated code checking
Global BIM guide wiki	IFC Road & Rail	[Augmented reality]	Product templates and BIM objects	
MVD FM Handover	IFC Asset Management	ISO & CEN Liaison		
MVD Energy simulation	IFC Bridge	Model Map Referencing		
MVD Scheduling	Integrated Digital Built Environment			
MVD Quantity take off	MVD Surveying / Scanning			
MVD Annotation				
IDM Curtain walling				
DfMA & Offsite				

Initiation stage

Building	Infrastructure	Technical	Product	Regulatory
ISO IDM Standard	IFC4 Infra alignment 1.0	Linked building data ifcOWL	IFC mapping into bSDD	E-submission common guidelines
IDM for building programming	IFC Alignment next phase 1.1	mvdXML Trust in BIM deliverables	Data dictionary enabler	Automated code checking
Global BIM guide wiki	IFC Road & Rail	[Augmented reality]	Product templates and BIM objects	
MVD FM Handover	IFC Asset Management	ISO & CEN Liaison		
MVD Energy simulation	IFC Bridge	Model Map Referencing		
MVD Scheduling	Integrated Digital Built Environment			
MVD Quantity take off	MVD Surveying / Scanning			
MVD Annotation				
IDM Curtain walling				
DfMA & Offsite				

Development phase

Building	Infrastructure	Technical	Product	Regulatory
ISO IDM Standard	IFC4 Infra alignment 1.0	Linked building data ifcOWL	IFC mapping into bSDD	E-submission common guidelines
IDM for building programming	IFC Alignment next phase 1.1	mvdXML Trust in BIM deliverables	Data dictionary enabler	Automated code checking
Global BIM guide wiki	IFC Road & Rail	[Augmented reality]	Product templates and BIM objects	
MVD FM Handover	IFC Asset Management	ISO & CEN Liaison		
MVD Energy simulation	IFC Bridge	Model Map Referencing		
MVD Scheduling	Integrated Digital Built Environment			
MVD Quantity take off	MVD Surveying / Scanning			
MVD Annotation				
IDM Curtain walling				
DfMA & Offsite				

Deployment phase

Building	Infrastructure	Technical	Product	Regulatory
ISO IDM Standard	IFC4 Infra alignment 1.0	Linked building data ifcOWL	IFC mapping into bSDD	E-submission common guidelines
IDM for building programming	IFC Alignment next phase 1.1	mvdXML Trust in BIM deliverables	Data dictionary enabler	Automated code checking
Global BIM guide wiki	IFC Road & Rail	[Augmented reality]	Product templates and BIM objects	
MVD FM Handover	IFC Asset Management	ISO & CEN Liaison		
MVD Energy simulation	IFC Bridge	Model Map Referencing		
MVD Scheduling	Integrated Digital Built Environment			
MVD Quantity take off	MVD Surveying / Scanning			
MVD Annotation				
IDM Curtain walling				
DfMA & Offsite				

Developing outputs

Securing the value proposition and getting others involved

Standards Program Snap Shot

- 39** Standards Committee members
- 25** Activities in progress
- 9** Final Standards endorsed (**5** since last Summit)
- 12** Initiatives being created
- 5** Rooms in operation
- 24** Nations working together

Latest bSI Final Standards

- IFC4 Design Transfer view MVD
- IFC4 Reference view MVD
- IFC4 Infrastructure Alignment
- BIM Collaboration Format XML
- BIM Collaboration Format API



Leveraging our members

ARUP

Technical Strategy for the IFC family. User benefit articulation. Project investment
BIM Maturity model



Education and marketing the ROI explanation

John Sullivan



Corporate user leadership to influence MVD development

Greg Schleusner

NEMETSCH
GROUP

Holding us to account - The 7 problems that buildingSMART must address

Miklós Szövényi-Lux



TRAFIKVERKET

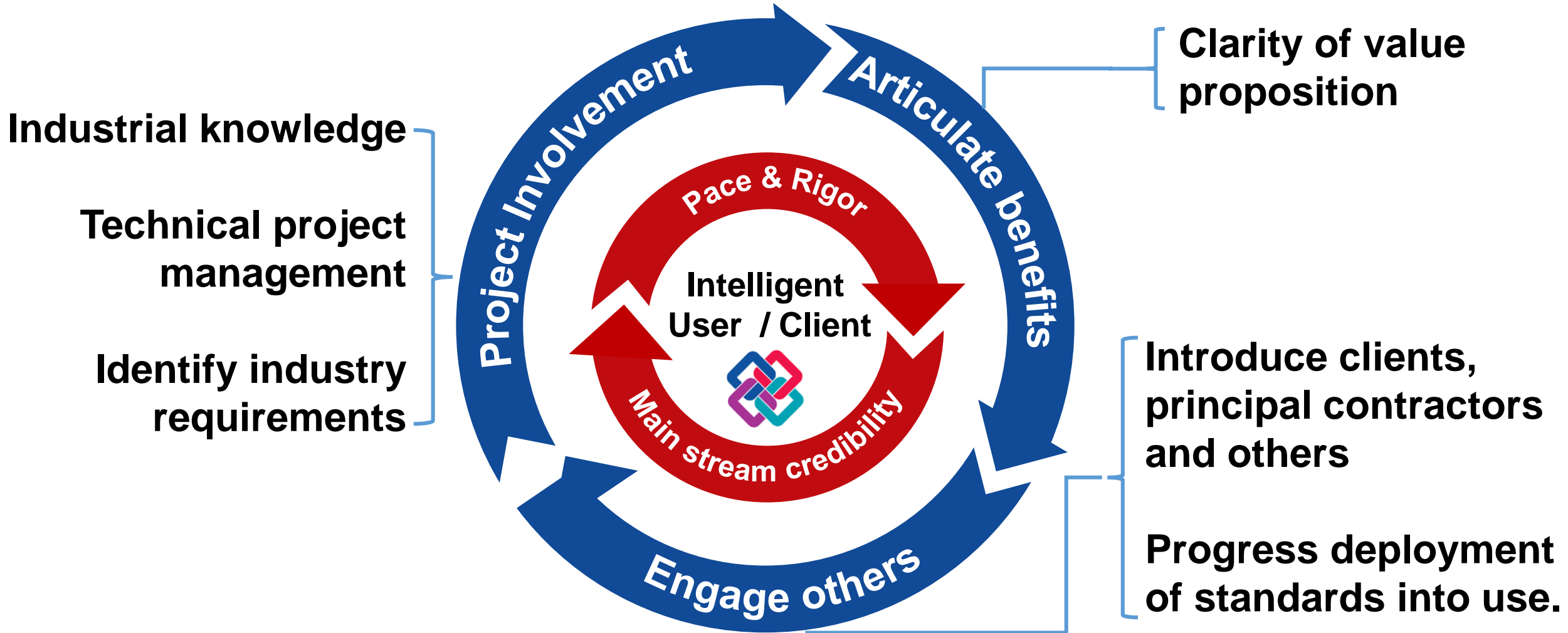
Driving pace and rigour. Investment in infrastructure standards to be used for real

Mikael Malmkvist

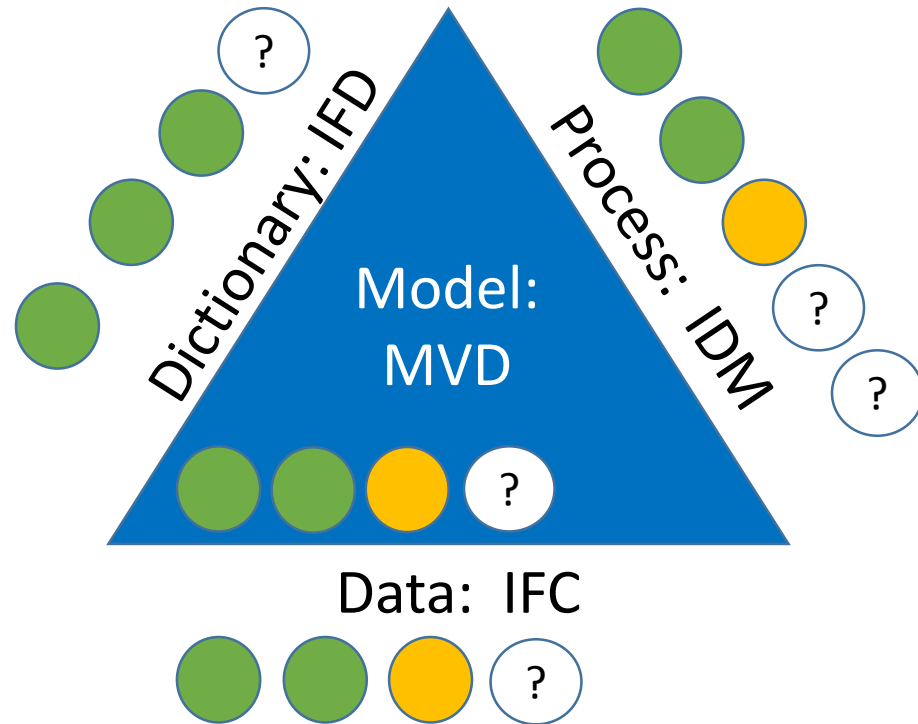


Investing in MVD development

Intelligent User / Client contribution



Technical Road Map(s)



Validate the Value Proposition

Build confidence

Provide the context for projects

Compliance: Making sure it works











Franchised compliance schemes covering:

- Software Certification
- BIM Competence for Individuals
- BIM Competence for Organisations

- BIM Process and Data Quality
- BIM Product Data Quality



Compliance: Certified Software

Vendor	Application	Certification	Type	Date	Download
NEMETSCHEK Scia	Scia Engineer	CV2.0	import	2013/09/17	
GRAPHISOFT	ArchiCAD	CV2.0	import	2013/09/20	
Solideo Systems	ArchiBIM Server	CV2.0	import	2014/04/22	
NEMETSCHEK Allplan GmbH	Allplan	CV2.0	import	2014/05/07	
Autodesk-A	AutoCAD Architecture	CV2.0-Arch	export	2015/02/24	
Autodesk-R	Autodesk Revit MEP	CV2.0-MEP	export	2013/07/11	
Data Design System	DDS-CAD MEP	CV2.0-MEP	export	2014/09/10	
RIB	RIB iTWO	CV2.0	import	2013/09/07	
Trimble Germany GmbH	Plancal nova	CV2.0-MEP	export	2014/10/31	
Tekla	Tekla Structures	CV2.0	import	2013/10/09	

Summary

In the last two years we have:

- achieved a lot in terms operational developments and established a business model for the future, this of course continues
- built the technical foundations for IFC 4 both for buildings and infrastructure

We now need to:

- Make these advances to the available for USERS
- Build public clarity and confidence in the value proposition

Thank-you