buildingSMART International
An Update

Richard Petrie, Chief Executive
October 2017

Three Important Questions

Why are Open, Universal Digital Standards important?

Why is buildingSMART important for Open Standards?

Why should you take a leading role?

The Importance of Standards
Change is inevitable

Digital Technology has completely upended traditional business models

Consumers expect service and products to get better and cheaper

The building and infrastructure industry is ripe for disruptive change

Lead, follow or be crushed: change is inevitable!

The Importance of Standards

Benefits

Save time and money
      On design
      On construction
      On operations

Make better, more informed decisions

Deliver better results for your customers

The Importance of Standards

Requirements

Open Shareable Machine Readable Data

Good data is essential: what is good data?

Living with legacy

Good data requires open standards

Opportunity
World Economic Forum underlines importance of openBIM

IMPACT-LIKELIHOOD MATRIX OF NEW TECHNOLOGIES

SOURCE: Shaping the Future of Construction, World Economic Forum/The Boston Consulting Group

Our brochure demonstrates:

- Pivotal role of buildingSMART

- How you can contribute

- Business case for interoperability

- Membership options

buildingSMART

Introduction

buildingSMART

buildingSMART was founded in 1995 and has evolved to meet the demands of the building and infrastructure sectors.

building

Applies to the entire built asset industry. buildingSMART has grown from serving the Building sector and now also servers the Infrastructure sector.

SMART

Identifies the way in which we wish to build: with intelligence, interoperability, and teamwork to design, build and operate built assets.

Vision

Enable full benefits from **digital ways of working** in the **built asset industry**

Goals

openBIM   Solutions

openBIM   Standards

openBIM   Adoption

openBIM   Compliance

openBIM   Use

Values

Open

Neutral

Non-Profit

History

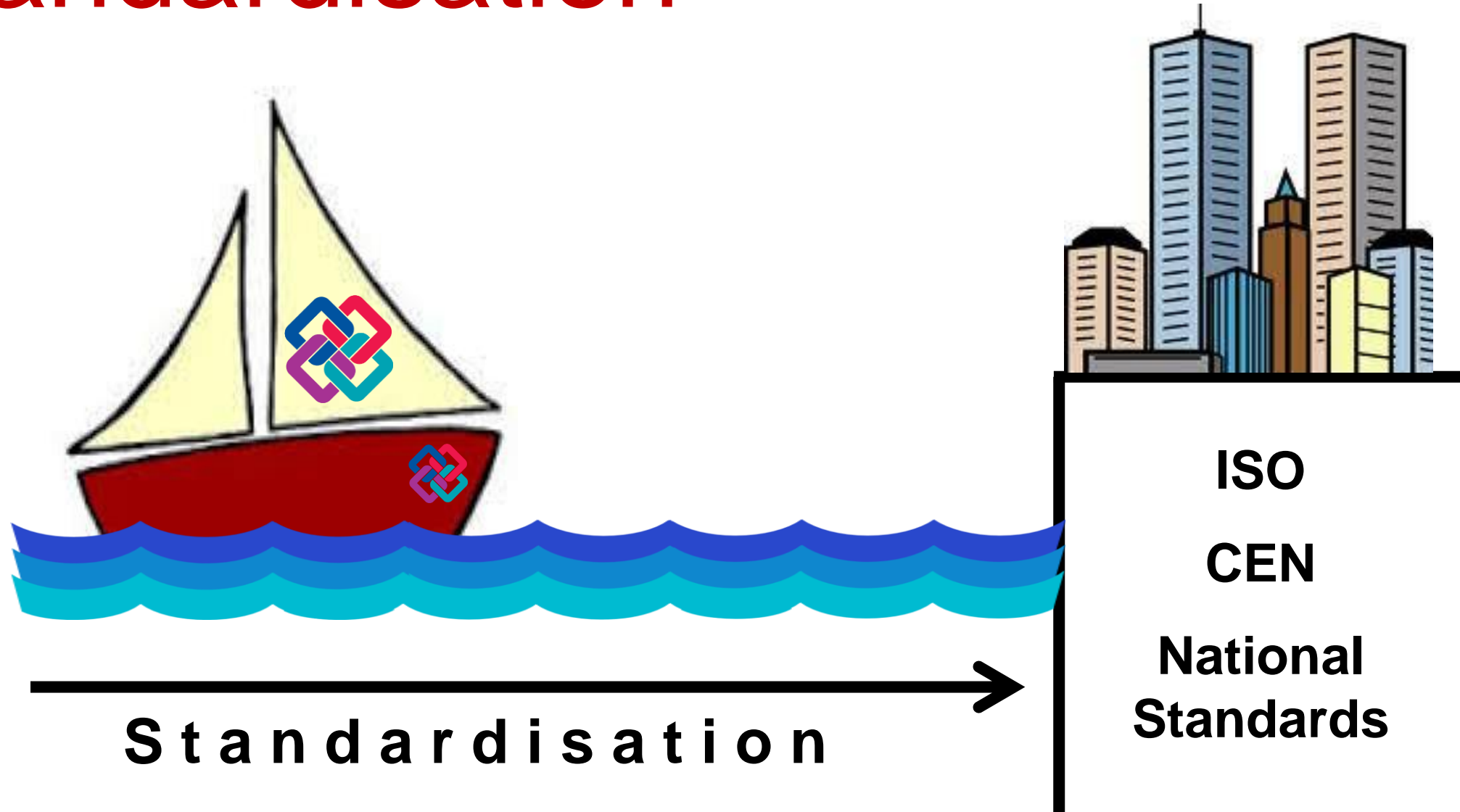1995 Established

2000 IFC2

2001 IFD ISO

2012 IFC4 + bSDD

2013 IFC ISO

2014 IFC Infrastructure

2015 BCF

2016 Enabling workflows

Standardisation

ISO

CEN

National
Standards

Standardisation

Partnerships
with other standards organizations

Chapters
Our national organizations

Members

Strategic Members

ARUP · Autodesk · HOK · 鹿島 KAJIMA CORPORATION · LafargeHolcim · NEMETSCHEK GROUP

International Members

BRICSCAD · coBuilder · DASSAULT SYSTEMES · SBB CFF FFS · Trimble

Standard Members

BEXEL CONSULTING · crb · DB NETZE · DIREKTORATET FOR BYGGKVALITET · ferrovial agroman · FM Global

CCCC CHINA COMMUNICATIONS CONSTRUCTION COMPANY · HOCHTIEF PPP SOLUTIONS · HOCHTIEF ViCon · mensch maschine CAD as CAD can · ÖBB INFRA

Rijkswaterstaat Ministry of Infrastructure and the Environment · SAMOO C.M. · Schiphol Amsterdam Airport · TRAFIKVERKET SWEDISH TRANSPORT ADMINISTRATION · SNCF RÉSEAU

Sponsors

Building & Infrastructure

buildingSMART Data Dictionary

Individual Certification

BIM Collaboration Format

buildingSMART

Activities

Digitising workflows

Process Descriptions

Exchange Requirements

Purpose –driven workflows

Data Structure

View

buildingSMART
International home of openBIM
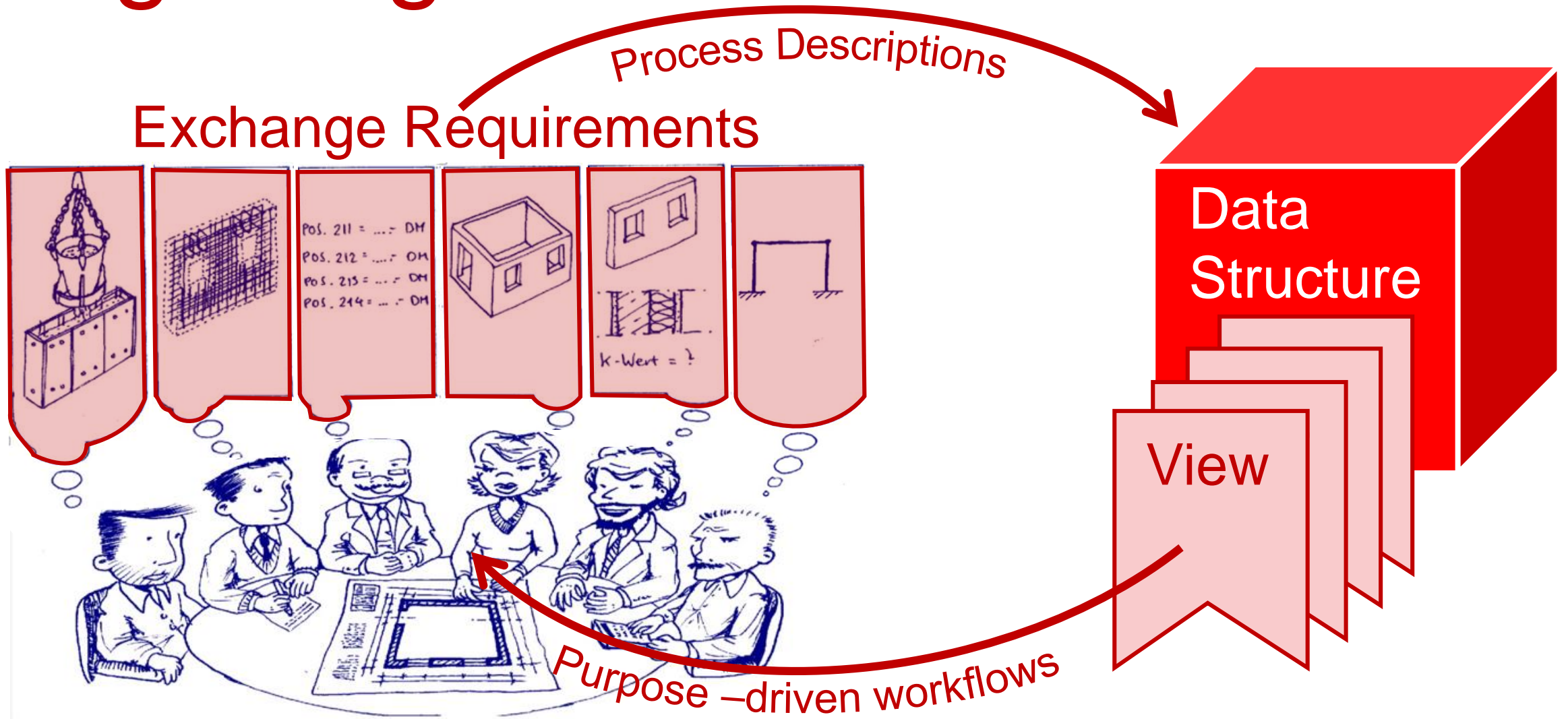
Enabling digital ways of working

Computer

Exchange Requirements

Exchange Requirements

Five Basics for Sharing our Thoughts:

1. Process Descriptions
2. Enabling Data Structure
3. Change coordination
4. Defined terms and types
5. Digital Workflows

IDM
IFC
BCF
bSDD
MVD

BIM Apps

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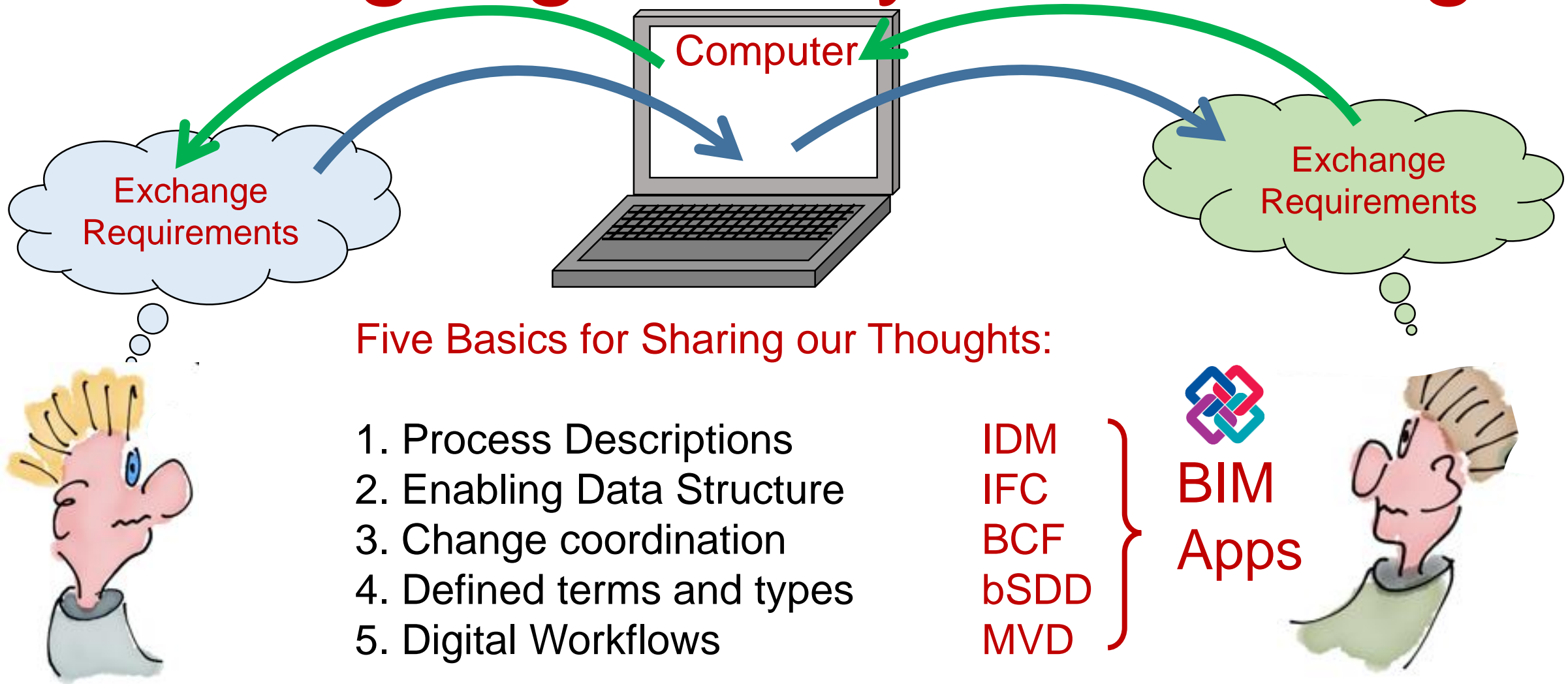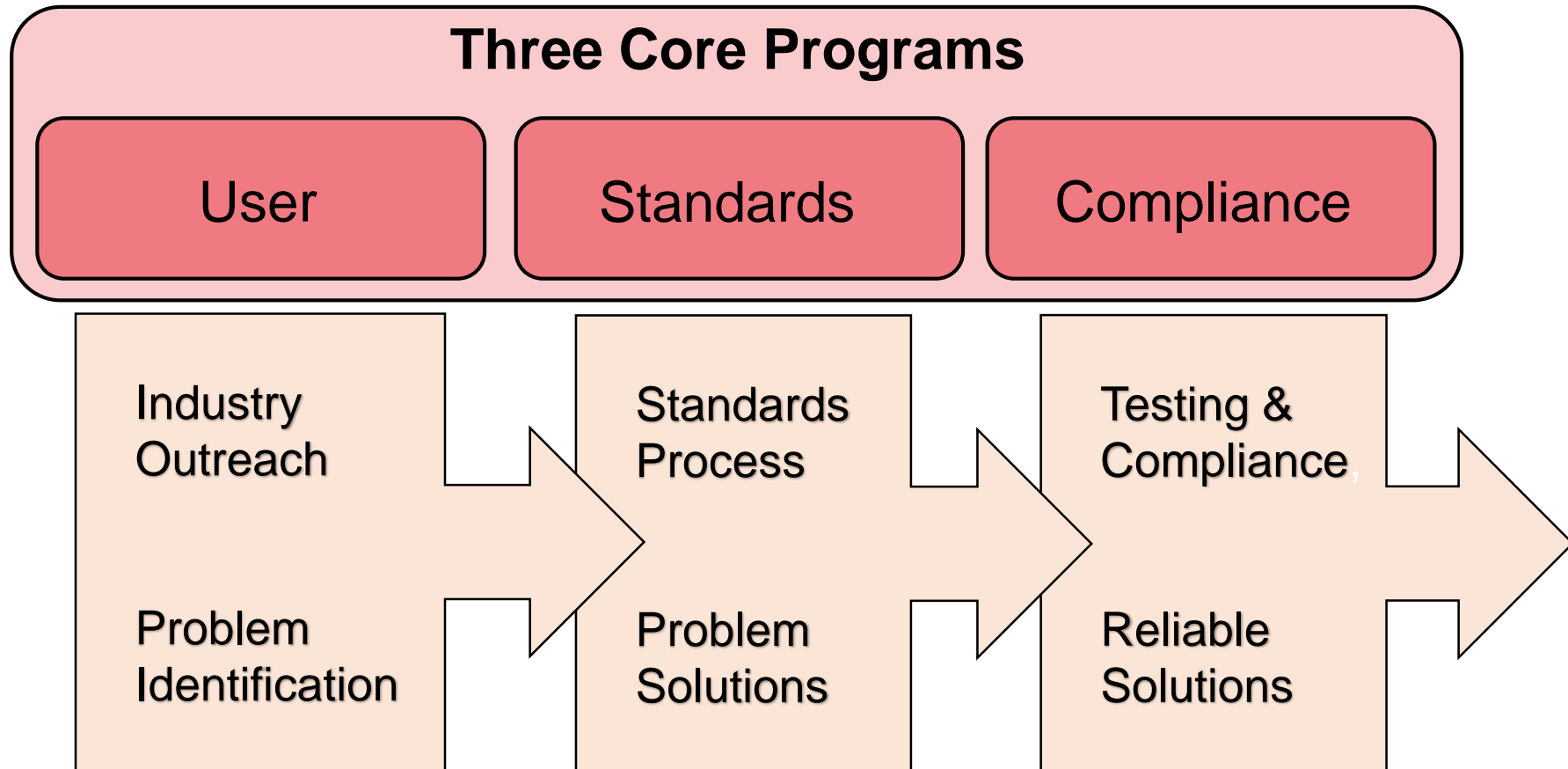
User Program
Engagement with National & Client Programs

Standards Program

Organization

Standards Committee (SC)

Standards Committee Executive (SCE)

Standards Committee Technical Executive (SCTE)

Chapter & Member reps

Rooms
(specialist domains)

Building

Infrastructure

Product

Technical

Regulatory

Construction

Airport

Standards development

SC — Standards Committee votes

⊕ — Expert Reviews:
- End User
- Technical Architecture
- Commercial
- Implementer
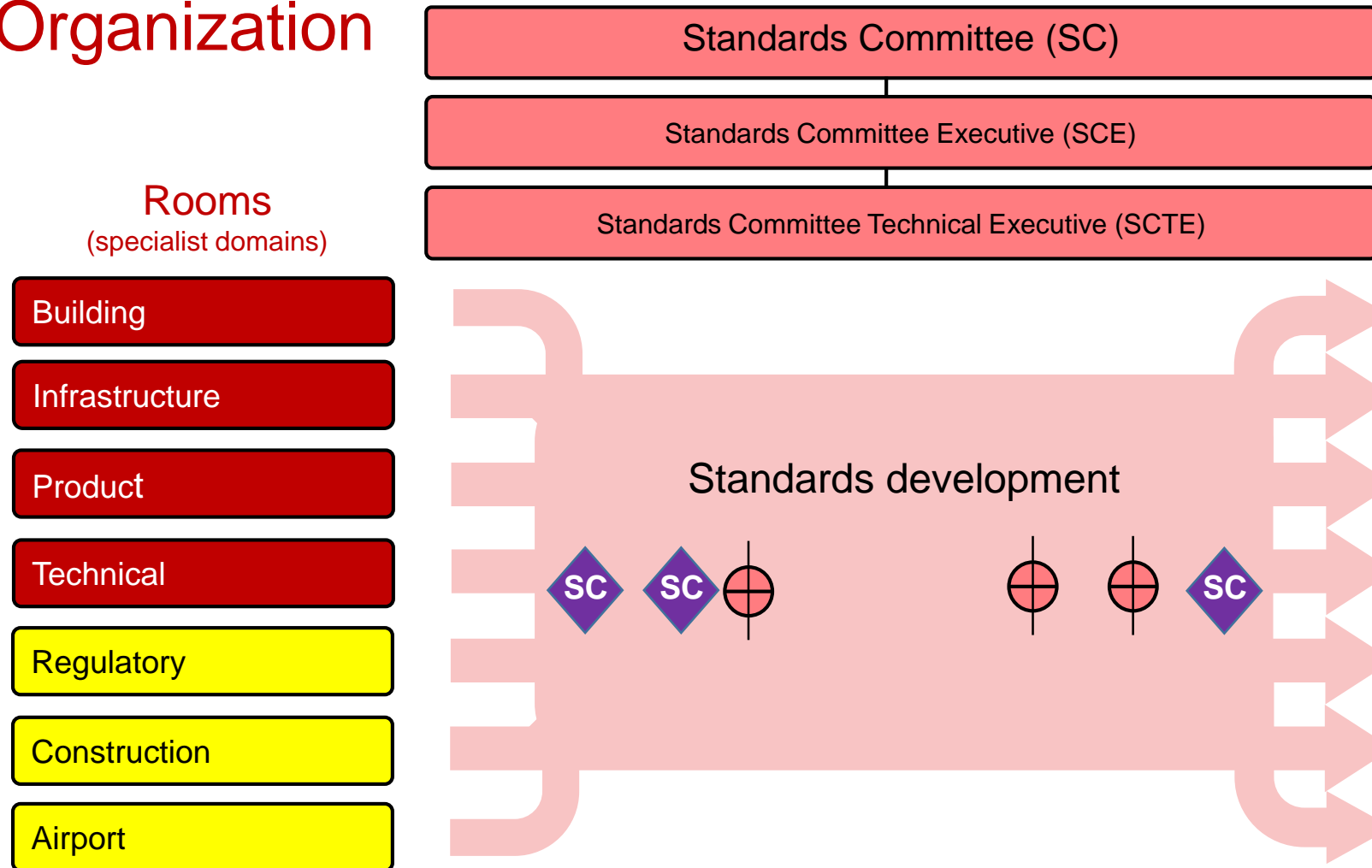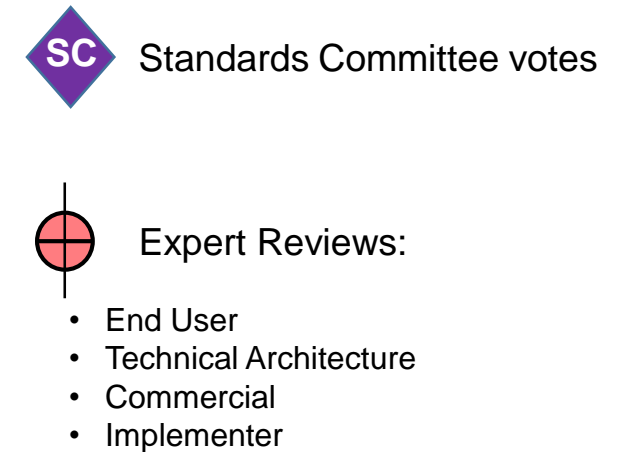
Barcelona Summit 2017
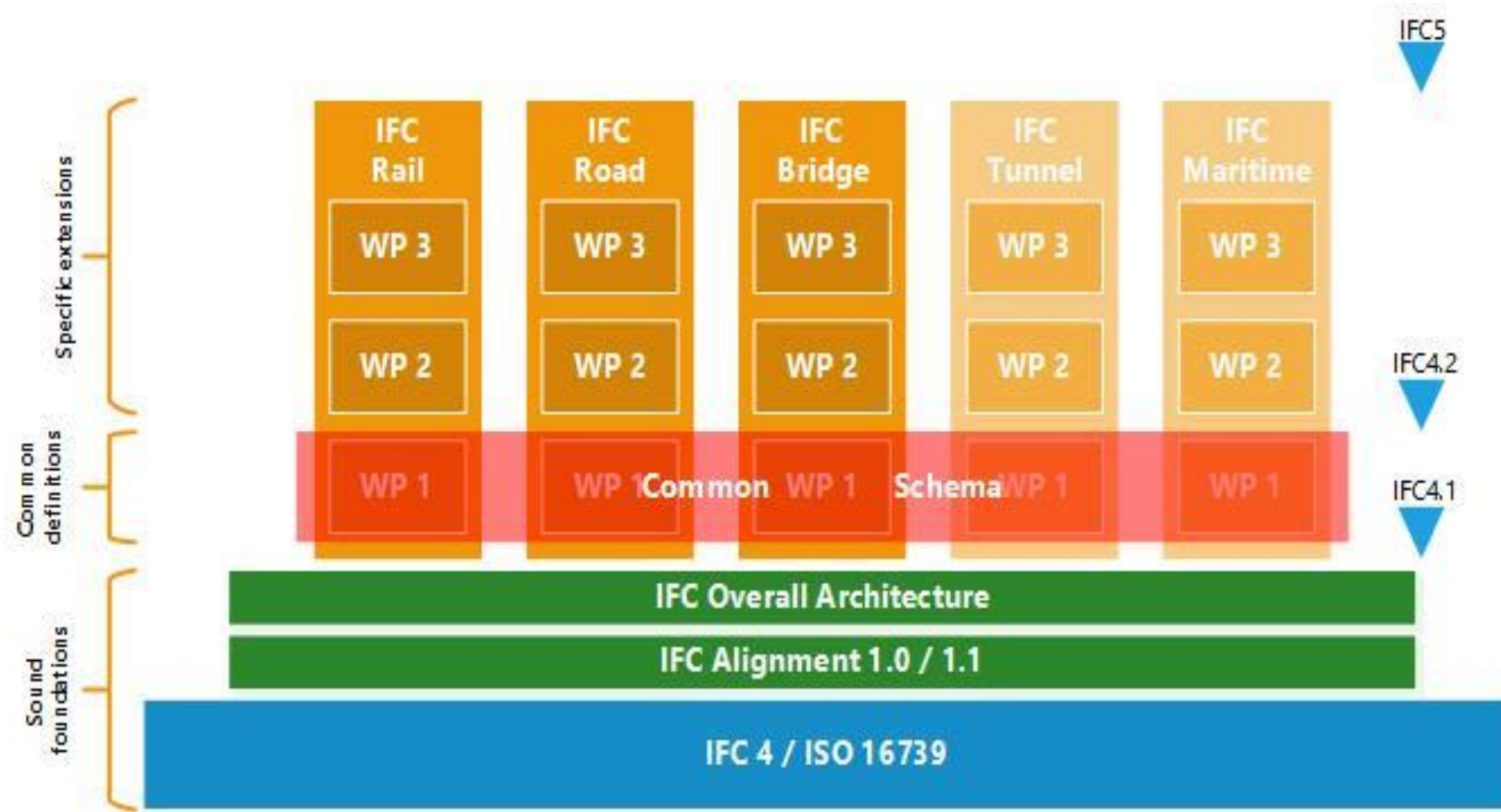
Barcelona Summit 2017
Memorandas of Understanding

The InfraRoom is pleased with the signing of the IFC Common Schema, IFC Rail, and IFC Road MOUs and appreciates the work by all parties involved.
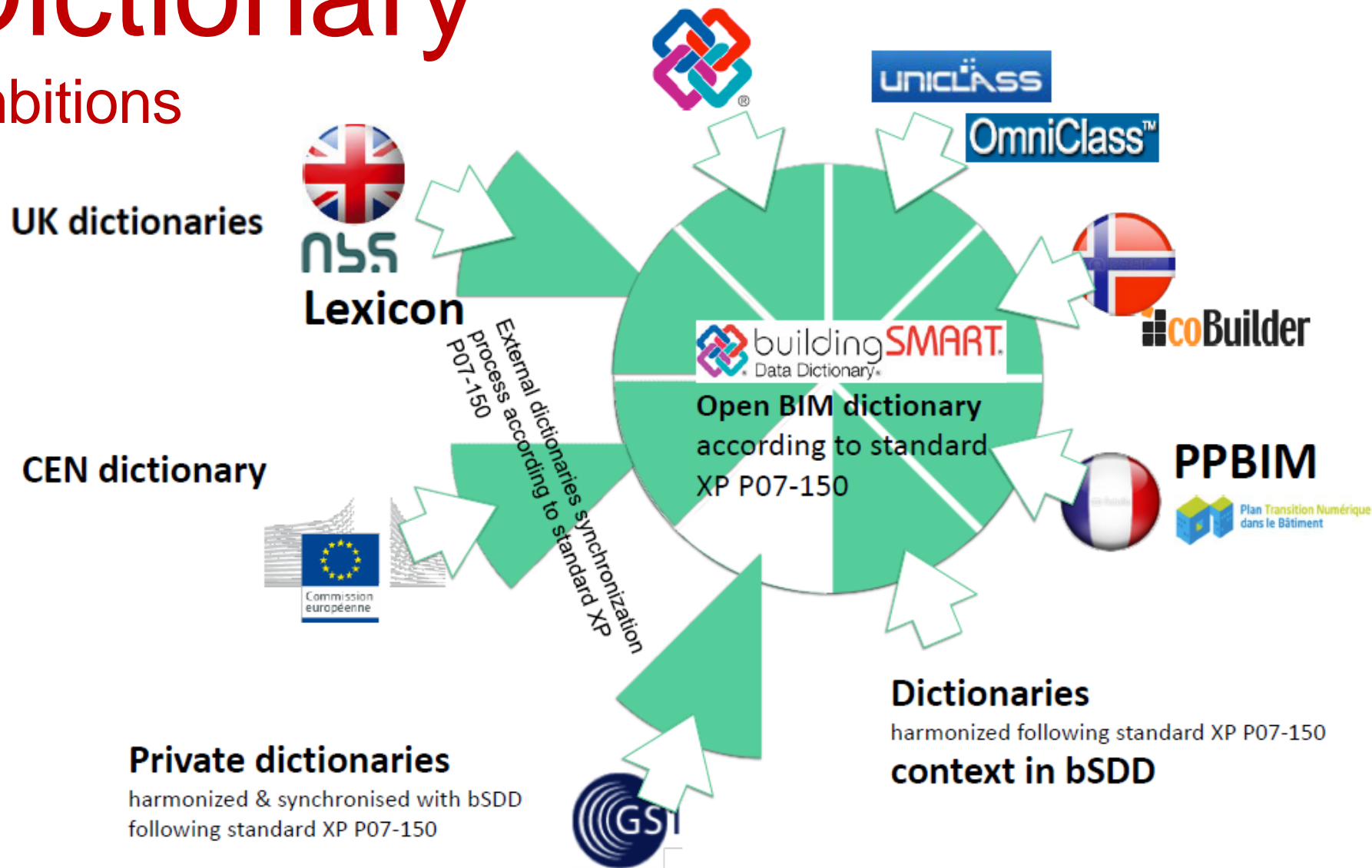
Standards Program
Infrastructure Room

Work Plan

Data Dictionary
European ambitions

UK dictionaries

Lexicon

CEN dictionary

External dictionaries synchronization process according to standard XP P07-150

buildingSMART Data Dictionary
Open BIM dictionary according to standard XP P07-150

coBuilder

PPBIM
Plan Transition Numérique dans le Bâtiment

Dictionaries
harmonized following standard XP P07-150
context in bSDD

Private dictionaries
harmonized & synchronised with bSDD
following standard XP P07-150

AIMCC

buildingSMART
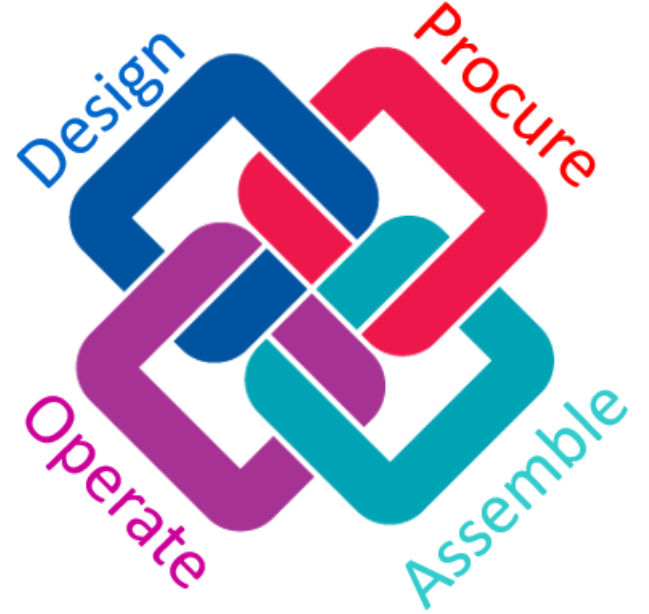International home of openBIM

Compliance Program

Individual Qualification Scheme

Launch Q3 2017

Software Certification

Reference View NOW Open

Design Transfer View - requirements definition

Thank You

Richard Petrie, Chief Executive

www.buildingsmart.org