

The world needs open standards

Richard Petrie
Chief Executive
buildingSMART International

buildingSMART

Mission



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

SUSTAINABLE DEVELOPMENT GOALS



Open & Neutral Data Exchanges

Open digital ways of working deliver:

- **Flexibility** of choice of technology creates more value to all stakeholders
- **Sustainability** helps future proof your business and control your digital destiny
- **Efficiency** is realized by enabling a digitalization in your organization
- **Access** to new and international suppliers and markets
- **Opportunity** for financial performance improvement delivering short and long-term benefits



Who benefits from open standards?

Owners, Public Authorities and Investors

Architects, Engineers and Construction

Product Manufacturers and Assemblers

Facility Managers and Operators

Software Vendors

Educators and Students



Owners, Public Authorities and Investors

Benefits

- Independent **control** of your asset and portfolio **data**, strategic data **flexibility**
- Better whole-life **decisions**
- Basis for your **Digital Twin**
- **Transparency** of key indicators
- Improved **quality and cost control**
- **Save money**
- Avoid data **lock-in**

“**Open standards** are a prerequisite for us to achieve our goals of building a digital asset. openBIM is helping us to **liberate the data** from the design software making it available for automatic processes

Participating in the **financing, steering and development** of a standard is not only giving us the opportunity to ensure the final content suits us as an owner, but is also allows us to exchange experiences and ideas in the large bSI community.”

Karin Anderson
BIM Manager
Trafikverket
Owner



2019 buildingSMART Award Winner

Construction

“The idea that IFC was the BIM deliverable method became agreed by the client due to its efficiency and final on-site savings”

Véronique Remande,
ICOS Groupe

Open standards enabled:

- ✓ EURO €24 billion
- ✓ All construction deliverables in IFC format
- ✓ 3D Rebar tool developed with IFC
- ✓ Automatic exchanges developed
- ✓ Model checking

ICOS Group, BYLOR Group and EDVANCE Group
Hinkley Point C EPR
United Kingdom

2018 buildingSMART Award Winner

Construction

“openBIM gave us an incredible insight into the way models are used by other people. IFC standards are solid and proven.”

Jeffrey Truijens,
Dura Vermeer

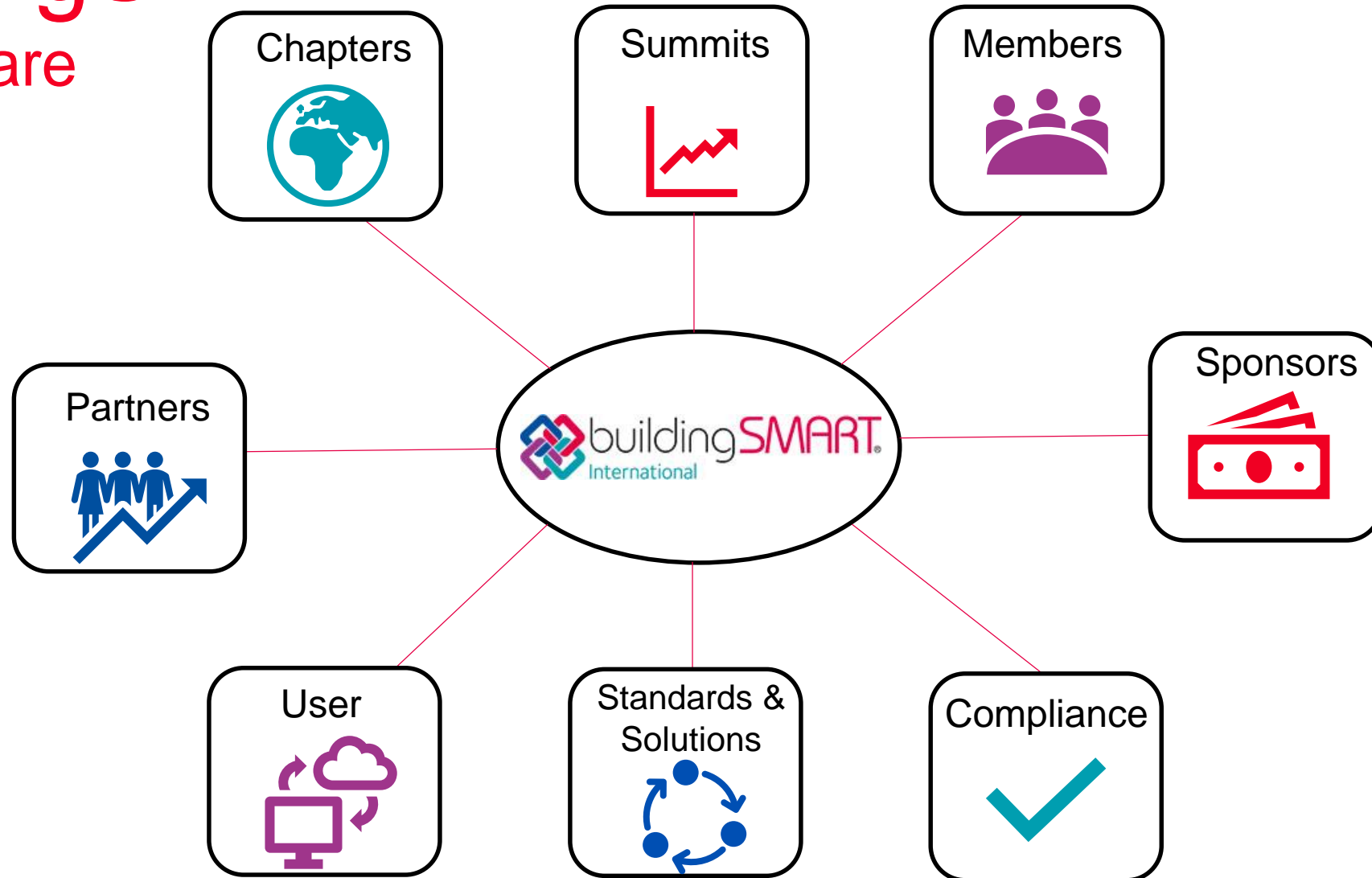
Project facts:

- ✓ 90 Meter Housing
- ✓ 366 Apartments
- ✓ EURO 100 million
- ✓ IFC 2x3
- ✓ 50 different disciplines
- ✓ 350 different IFCs
- ✓ BCF used

Bouwcombinatie Pontsteiger
The Pontsteiger Project
Amsterdam, Netherlands

buildingSMART

Who we are



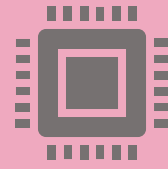
buildingSMART Rooms



Building



Infrastructure



Product



Technical

buildingSMART Rooms



Airport



Railway



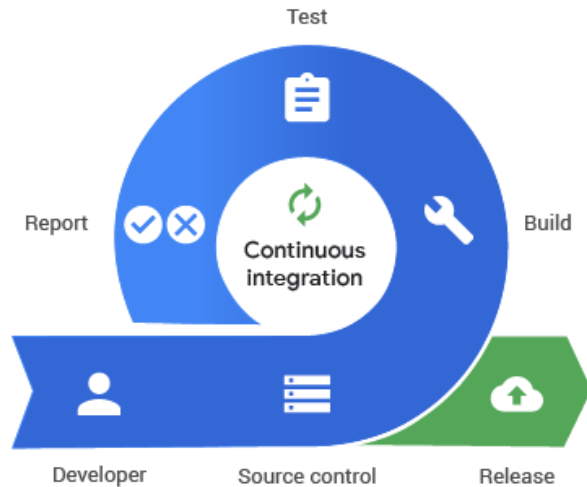
Regulatory



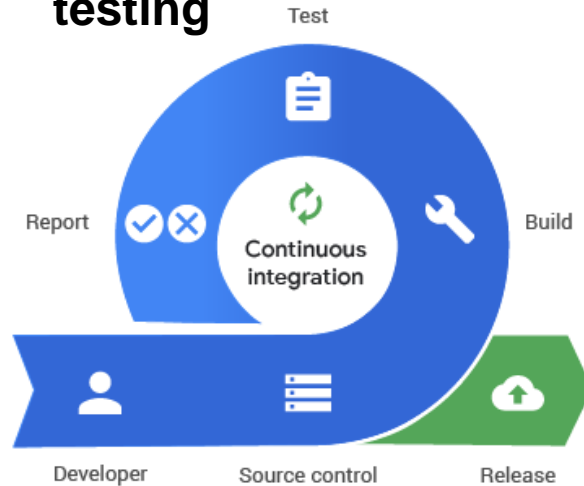
Construction

Delivering IFC Based Solutions

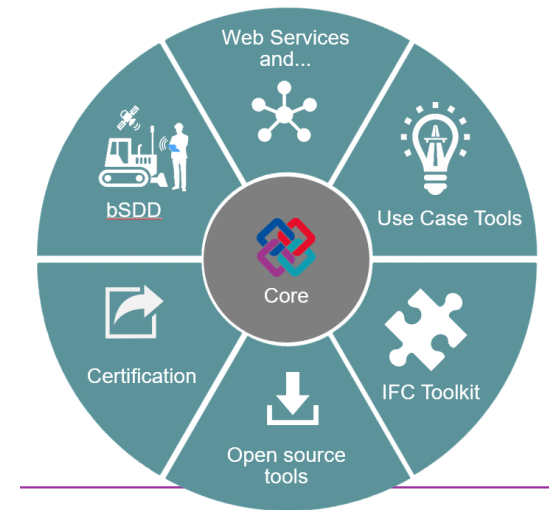
IFC Development



Harmonisation and vendor implementation testing



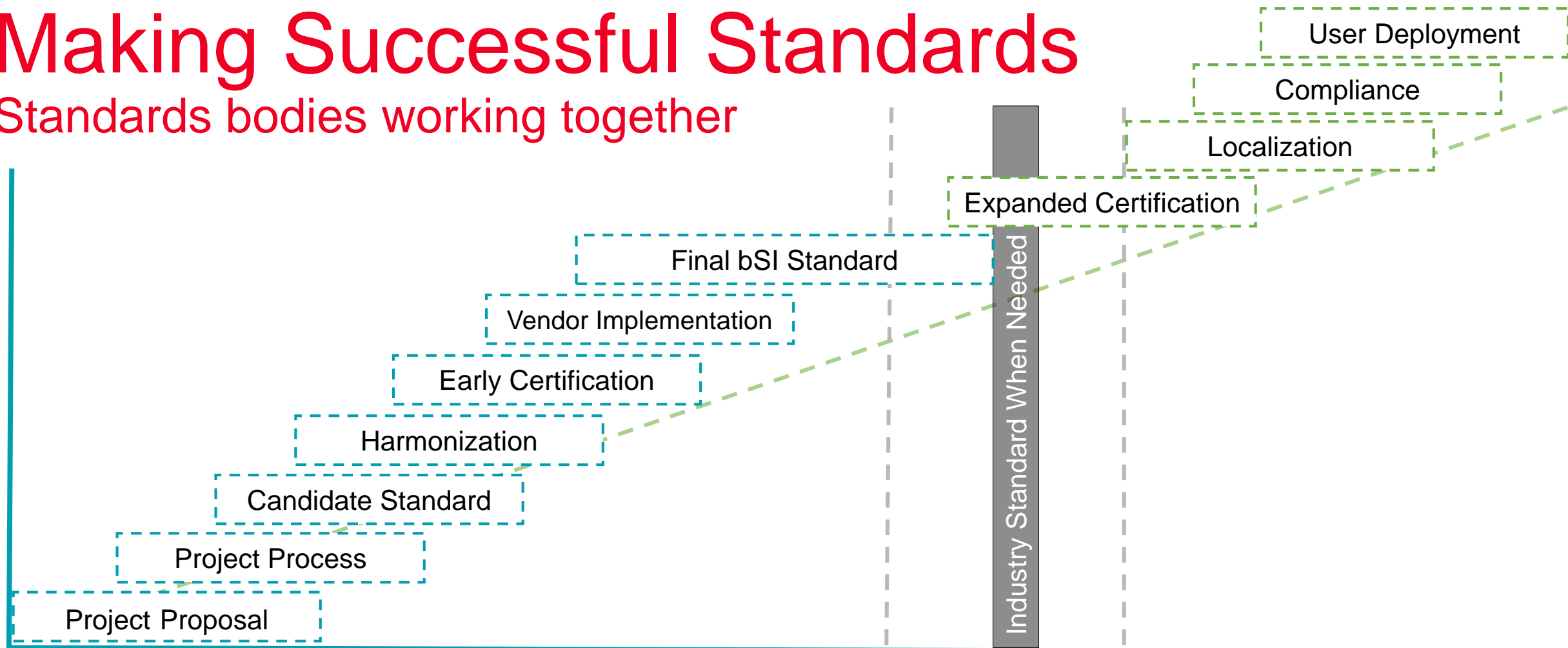
Enable and support robust use



bSI Domain and Technical Road Maps

Making Successful Standards

Standards bodies working together



Industry Standardization

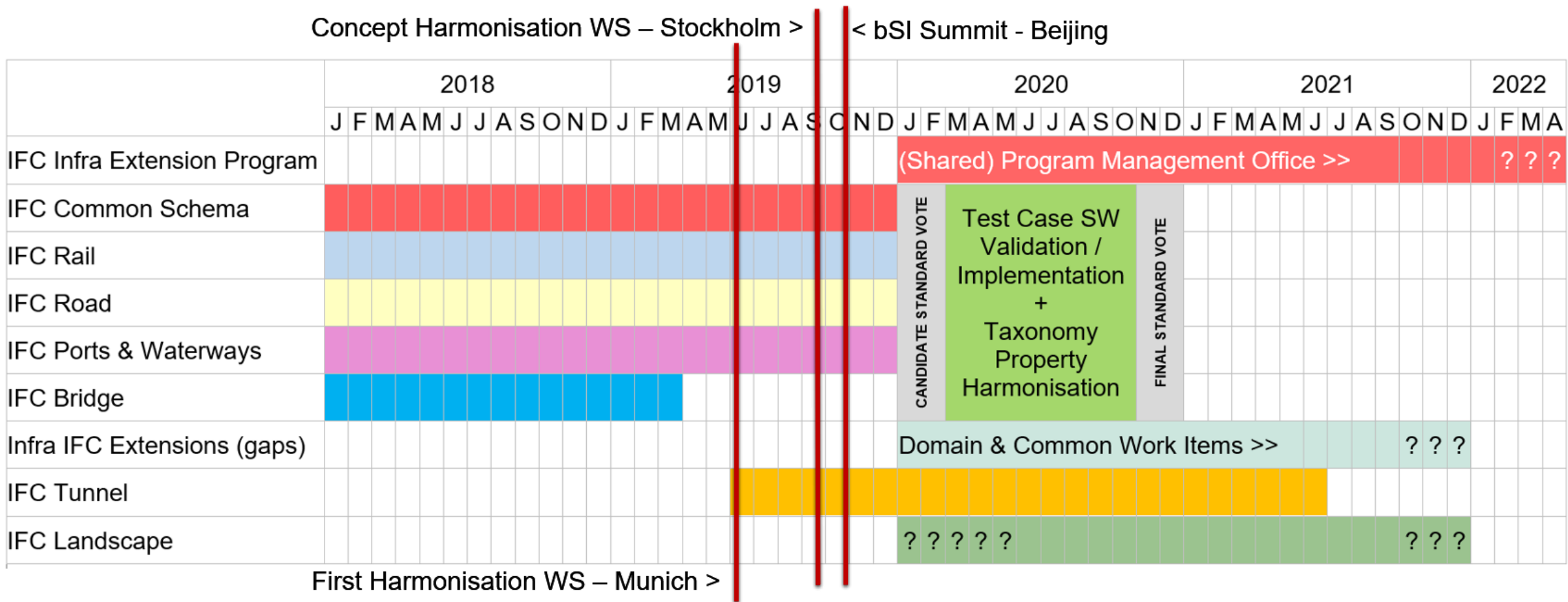


Standardization



Post-standardization

IFC Program



Infra Room 2020 Plans

IFC Bridge, Rail Candidate Standard review work

- [Download the standard](#)
- **Review** the document
- **Provide** feedback
- **Open** to all



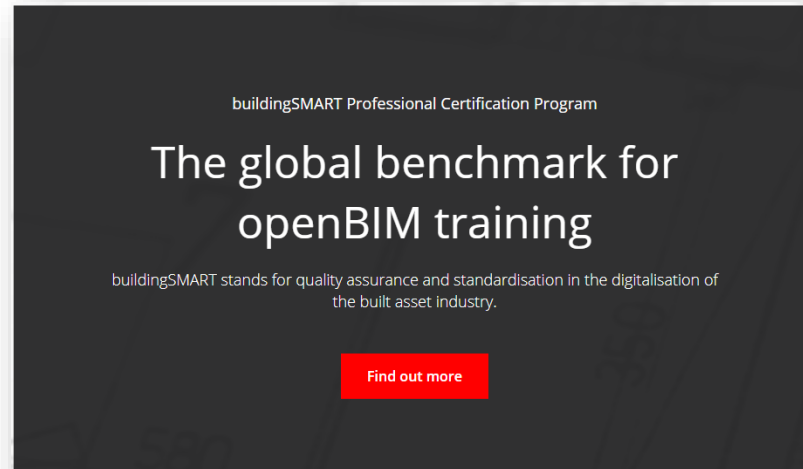
The new IFC Extension Standard combining Rail, Road, Ports & Waterways and Bridge will reach Candidate Standard in March. Harmonization project to follow.

IFC Bridge vendor deployment trials (Italy and France)

Compliance Program

Professional and Software Certification

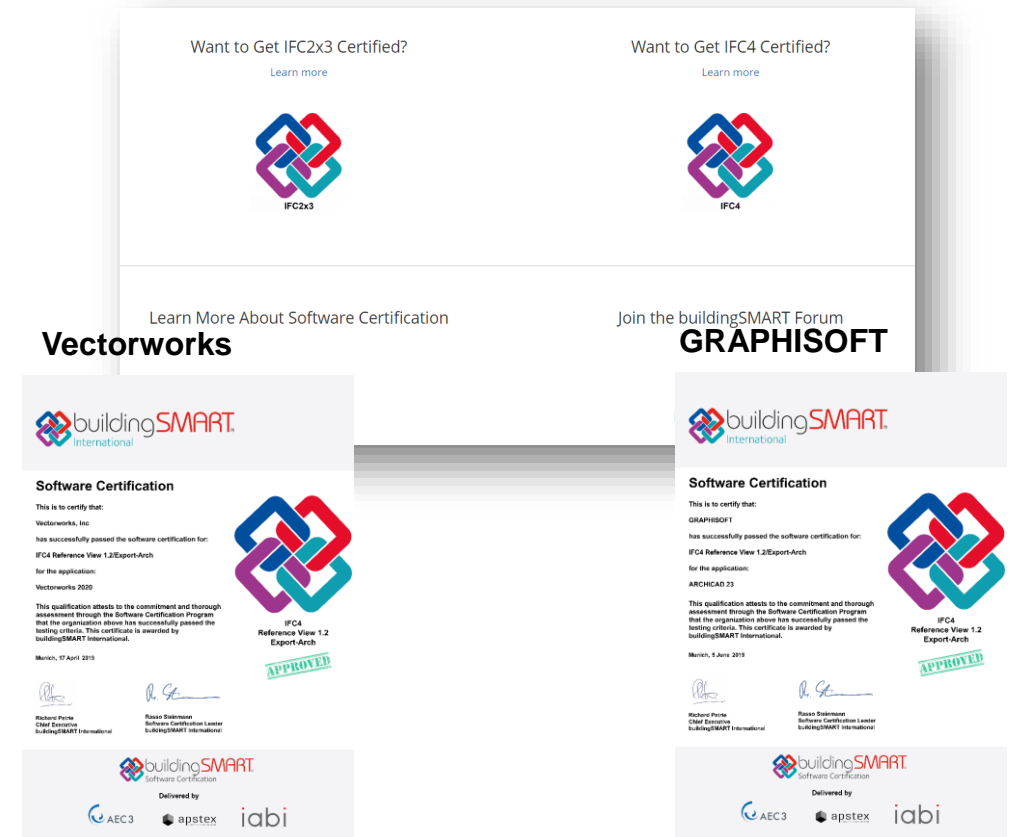
Professional Certification provides an approved buildingSMART training course for individuals



- buildingSMART Germany
- buildingSMART Switzerland
- buildingSMART Spain
- buildingSMART Italy
- buildingSMART Austria
- buildingSMART Russia
- buildingSMART Poland
- buildingSMART Canada
- ...

May 2018
May 2019
June 2019
September 2019
Autumn 2019
December 2019
March 2020
2020

Software Certification provides validation for implementation ones for software vendors



Professional Certification Levels

Professional Certification Practitioner

Applied learning / practical expertise

COBie
Certified
Professional

XXX

YYY

ZZZ

Professional Certification Foundation

Knowledge-based learning

Energy
Performance

Owner

Contractor

Designer

Facility
Manager

Basic

Join us

International Standards Summit



Save the Date

buildingSMART International Standards Summit
Thon Hotel, Oslo
23-26 March 2020



Save the Date

buildingSMART International Standards Summit
Hotel Bonaventure, Montreal
28 Sept - 1 October 2020

www.buildingsmart.org/events

Thank-you

Regulatory Room Update