Short introduction to OpenBIM ecosystem in Finland

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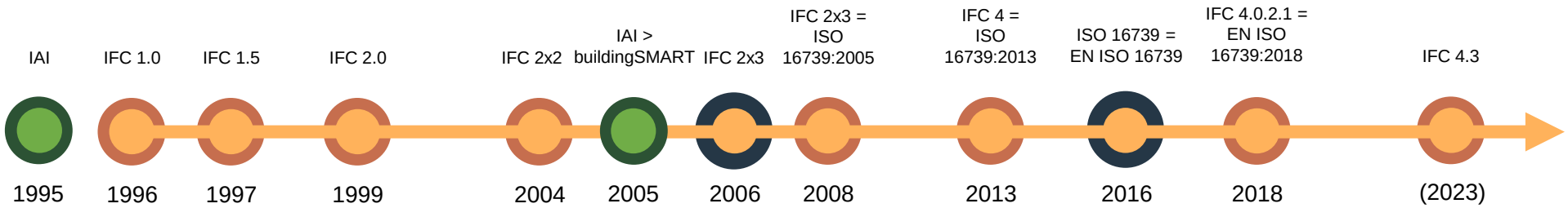
- *I´m a long-time openBIM and buildingSMART influencer from Finland*
- *18 years have been actively involved in national BIM development projects, disseminating BIM know-how to the construction industry and industry operating models and guidelines.*
- *I was involved with project General BIM Requirements 2012 (COBIM).*
- *The Building KIRA-Digi Project Coordinator selected by the Finnish property owners and a group of construction companies for national development projects.*
- *Project Coordinator COBIM2020 Planning project.*
- *Project Coordinator of Ministry of Environment of Finland development projects: RAVA2 BIM-based Building Permits and COBIM2020 part 14.*
- *Senior Consult in building act reform, Ministry of Environment of Finland*
- *Ministry of Finance of Finland RAVA3Pro Project Manager*
- *Part of VTT team in ACCORD EU Project*
- *Innovator and Project Coordinator of BIM Export Projects for Finnish companies.*
- *Innovator and one of the founders for Hospital BIM –virtual event 2020 in Finland*
- *Engineer background, Hospital Project Specialist for information management, BIM and Creating new operating models at different project stages.*

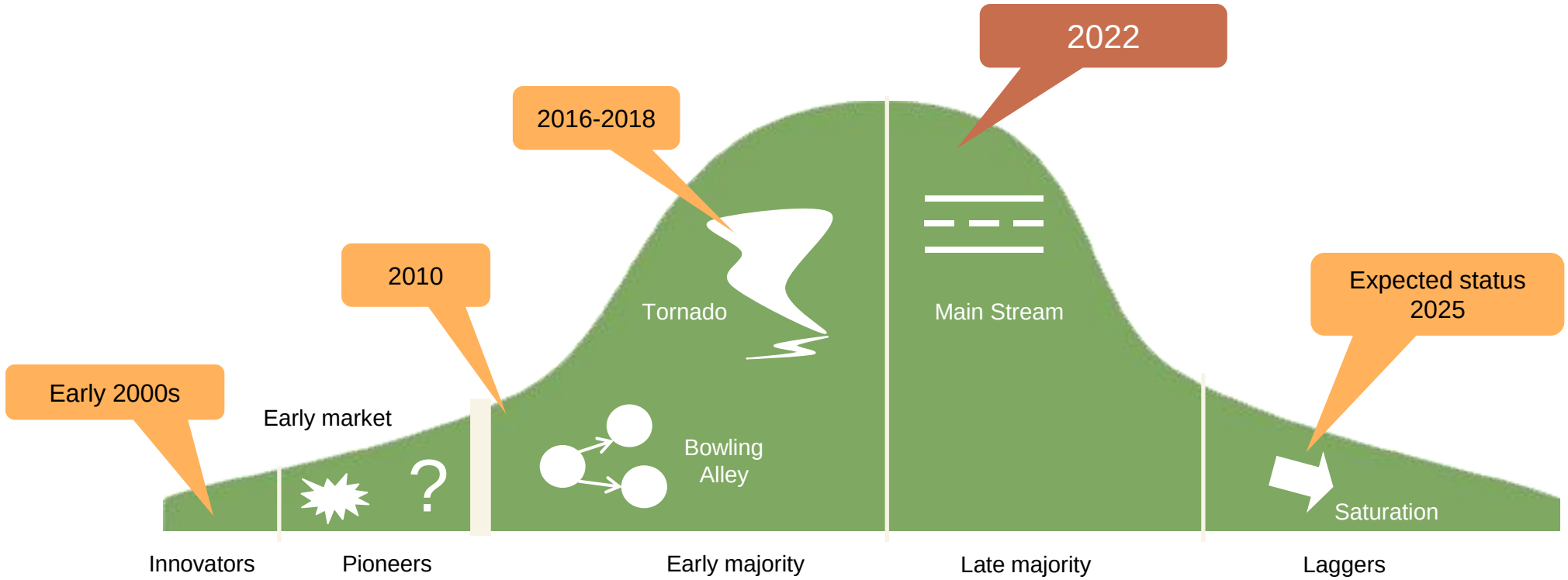
IFC and BIM in the construction sector



IFC (EN ISO 16739)

- Developed by buildingSMART International
- Approved and published by ISO and CEN
- Version 4.3 adds support to infrastructures

IFC 4 is an official archiving format in Finland



Ympäristöministeriö
Miljöministeriet
Ministry of the Environment

Standardization of DATA properties AND USE CASES based on Rava3pro project 2023 with ministry of environment

National Level of Information Need standards

ARCHITECTURAL	STRUCTURAL	MECHANICAL AND ELECTRICAL

- MECHANICAL AND ELECTRICAL: Information data sheets are ready for the first public review. Still missing sections for energy calculation, carbon footprint calculation and circular economy calculation.
- ARCHITECTURAL DESIGN: 50% ready, missing sections for room data, energy calculation, carbon footprint calculation and circular economy calculation.
- STRUCTURAL DESIGN: 30% ready, missing sections for energy calculation, carbon footprint calculation and circular economy calculation.

Use Cases

MEP	ARCHITEC-TURAL	STRUCTURAL	CARBON FOOTPRINT	CIRCULAR ECONOMY CALCULATION

- Use Cases to specified to understand the information needs for different purposes.
- Lifecycle perspective as one of the Use Cases.
- The workflows of different stakeholders (property owners, designer, construction companies, new business cluster opportunities) have to be identified.

- The execution of these work items is ready to start quickly

ENERGY CALCULATION
FM
AIM
ANALYTICS AND SIMULATIONS

Finnish companies' innovative BIM Solutions:

- ***Opportunities for owners and construction companies through digital construction***
  Stefan Argiriu, Managing Director DACH, Infrakit
- ***Use of data in Nordic BIM - Granlund 4D Scheduling Service***
  Jouni Ojala, Director, Granlund
- ***Turning raw BIM data into easy-to-use information and actionable insights for every construction professional***
  Sakari Lehtinen, Co-Founder, Simplebim
- ***New way to design buildings via next generation BIM across all business systems***
  Anssi Auvinen, CEO & Founder, Aecmaster
- ***Using BIM for automated Life Cycle Assessments (LCA),***
  Peter Gyenge, Business Development Engineer (DACH region), OneClick LCA
- ***Harmonizing reality capture & openBIM: Building faster & saving millions***
  Jeremia Hokkanen,Technical Account Manager, Pointscene

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