

ARGE and BIM

What level of engagement seems feasible?

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Content

- ➔ **Growing relevance of BIM**
- ➔ **Highly diverse landscape**
- ➔ **Options for ARGE to engage**
- ➔ **ARGE's approach**
- ➔ **Benefits for companies**
- ➔ **Your take-away message(s)**

WG BIM | Dr. Kai Oberste-Ufer

- ➔ Convenor **Dr. Kai Oberste-Ufer**
- ➔ Civil Engineer
- ➔ **Lead AEC Planning tools & Configurators**
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- ➔ Board member of **buildingSMART** Germany
- ➔ Active in different working groups & industry associations related to **digital planning**



BIM – Important Initiatives & Adoption

State of BIM Adoption in 2021: 7 Top Countries Compared

	The most common BIM level(s)	When did BIM become mandatory?	Percentage of construction companies that use BIM
UK	2, with development towards 3	2016 for government projects	73%
Germany	1, some cases of 2 and 3	2017 for projects worth over €100 million	70%
Poland	1, growing rates of 2	2030 for capital construction projects with a state budget	43%
France	2	1 st January 2022	35% – real estate 50 – 60% of construction companies
Croatia	0, some cases of level 1	Not currently mandatory	25% of designers 4% of contractors
Austria	1, with local standards pushing for 3	2018 – 20 for cost control in public buildings	20%
Russia	1, growing rates of 2 and 3	1 st March 2022 for all government-funded projects	12%



Source: [BIM adoption in Europe: 7 countries compared - PlanRadar UK](#)

BIM – Important Initiatives & Adoption

- ➔ ISO 22057:2022. Data templates for the use of environmental product declarations (EPDs) for construction products in building information modelling (BIM) (**EPD for BIM**).
Publication date : 2022-04
- ➔ EC 305/2011 (Construction Products Regulation or CPR). Smart CE Marking initiative: provide a harmonised digital format to deliver **PDT**. Article 78 “EU construction products database or system”, 2022 (draft of the EU for a revision, not final)
- ➔ EU Commission Staff Working Document: **Scenarios for a transition pathway for a resilient, greener and more digital construction ecosystem**. Chapter 2.3: “A digital EU construction ecosystem”, 2021
- ➔ Almost every topic Hans has addressed in his speak yesterday.

BIM Challenges

- **Heterogenous & Fragmented Landscape**

- Different Software Systems
- Different Organizations
- Different Norms & Regulations



Education & Training

- **With building hardware, we are at the bottom of the food chain**

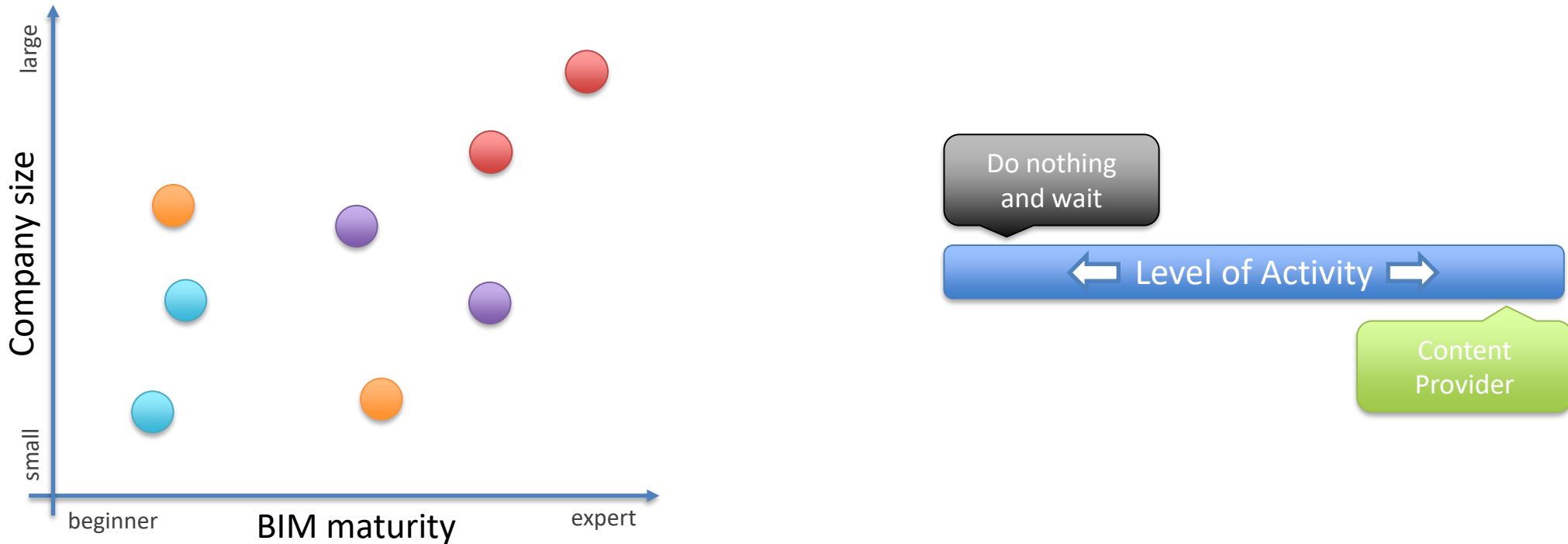
- BHW is the last thing an owner thinks of when planning a building
- We must be proactive to avoid that we are overrun by external people



Contribute EU Standards

What options could ARGE take to support BIM?

➤ What would be the most beneficial support for our member organizations?



ARGE's approach

- ➔ **Contribute to CEN/TC 33/WG 4 - BIM Data for Building Hardware**
 - ➔ Convenor: Olena Campos Gomes (DOM), Congratulations!
 - ➔ Collect Products properties, from member organizations, from network. Uniq has already defined some properties. FVSB will contribute existing data.
 - ➔ Review and alignment of data
 - ➔ Creating a European frame for national associations to provide a useful benefit to their members

- ➔ **BIM Information & Education**
 - ➔ Collect BIM information available, evaluate and adapt
 - ➔ If possible, avoid re-creation of content. Use existing sources.
 - ➔ Publish on ARGEs website

BIM - Why should I care ? What's in it for me?

- ➔ The BIM process connects all stakeholders of the **building lifecycle** and **suppliers** in **one digital ecosystem**
- ➔ EU legislation sets **sustainability goals** that are only reachable through optimized building planning based on **digital building data**
- ➔ EU Green deal, EU taxonomy for sustainable activities, Green public procurement
- ➔ **If you cannot provide data, you are out.**
- ➔ **Closer connection** & data handover from construction process into **supply-chain**
- ➔ Be **prepared** if product data is required: Enhance IT systems (e.g. PIM) to deliver the **needed information**
- ➔ Gain competitive advantage

Take away messages

- ➔ **BIM will be an indisputable element of EU's ambition for a digitised construction ecosystem**
- ➔ **As a company, being an active part is vital for the future and secures business continuity and competitive advantage**
- ➔ **ARGEs goal is to deliver as much benefit as possible to its member organizations**
- ➔ **Two main focus areas: Contribute to the work of the CEN/TC 33/WG 4 (BIM Data for Building Hardware) and by providing BIM information and training.**

Thank you!

Any questions?