



Tallinn, 26-27th February 2025

PLANNING



WORKSHOP IX

BIM IN PUBLIC SECTOR PROCESSES: BUILDING PERMITS AND URBAN PLANNING THE WORKSHOP



WHY?

A response to the needs of our members to share their knowledge, experiences, concerns, and challenges related to implementing responsible digitalization in buildings and cities.



WHAT?

Practical experience, insights, case studies, concerns and challenges on the responsible digitalization for buildings and cities.



GOAL:

The workshop was designed to encourage participants to reflect on varios aspects of public sector porcesses, such as Building permitting, BIM&GIS integration and Digital twins.



WHO?

The workshop participants were 27 participants from 12 countries (Estonia, Czechia, Greece, Hungary, Finland, Germany, Latvia, Sweden, Italy, Switzerland, Ukraine and Spain).





THE OUTPUT IS INTENDED FOR THE ACHIEVEMENT OF COMMON GOALS

- A free market
- A transparent and non-discriminatory competitive
- Environment
- Efficient spending of public money
- Support fos digitalization
- The Green Deal
- Reducing the carbon footprint, etc



WORKSHOP IX BIM IN PUBLIC SECTOR PROCESSES: BUILDING PERMITS AND URBAN PLANNING FINDINGS



management, is more decisive for success than technological advancements alone.



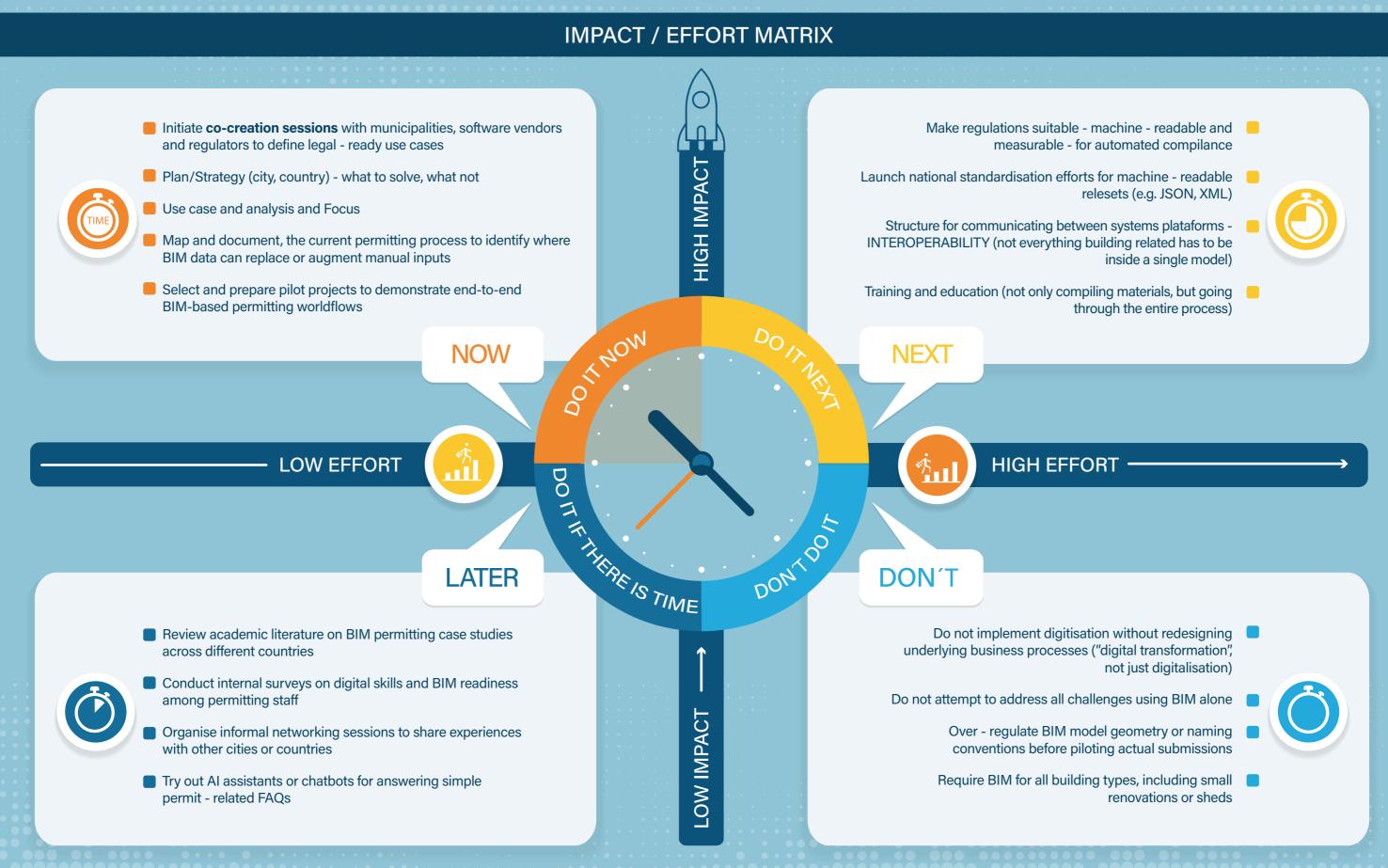
IDENTIFIED CHALLENGES AND PROPOSED SOLUTIONS:			
1 RESISTANCE TO CHANGE			
	Many stakeholders are hesitant to adopt digital permitting processes due to unfamiliarity, perceived complexity, and concerns about disruptions to established workflows.	Solution	 To overcome resistance, it is crucial to highlight the tangible benefits of digitalization, such as efficiency and accuracy, while offering incentives and clear guidance. Structured training and engagement strategies will ensure smoother adoption.
2 LIMITED TIME AND RESOURCES FOR IMPLEMENTATION 2			
	Government agencies and municipal authorities often struggle to allocate time and resources for transitioning to BIM-based permitting while managing daily operations.	Solution	 Setting realistic goals and justifying small-scale pilot projects will help demonstrate the efficiency gains of digital permitting. A gradual rollout with clearly defined milestones ensures manageable implementation without overwhelming staff.
3 COMPLEX AND LENGTHY AUTHORIZATION PROCESSES			
	The permitting process involves numerous steps and stakeholders, making the transition to digital workflows seem cumbersome and difficult to standardize.	Solution	 A thorough review of current processes can identify opportunities for automation and simplification. Implementing standardized workflows and automated rule-checking will streamline approvals, reduce manual errors, and enhance efficiency.
4 SKEPTICISM TOWARD PUBLIC SECTOR-LED INNOVATIONS			
	There is often a mindset that public sector-driven technological initiatives are slow, impractical, or disconnected from industry needs.	Solution	 Engaging stakeholders early in the development of digital permitting platforms, maintaining open communication, and incorporating private sector input will foster trust and ensure practical, widely accepted solutions.
5 LACK OF RELIABLE DATA AND DOCUMENTATION FOR EXISTING BUILDINGS			
	Permitting and planning processes frequently rely on outdated or incomplete data, making digital integration difficult.	Solution	 A structured approach to data collection, including national standards for data management and digital archiving, will improve information reliability. Modern scanning technologies and systematic data updates will ensure accurate records for permitting.
6 DIFFICULTY IN IDENTIFYING INFORMATION NEEDS			
• • • • • • • • •	Without clear national-level guidelines, municipalities and agencies struggle to determine what data should be collected and standardized for permitting.	Solution	Establishing basic national standards for data collection and classification will create consistency and improve interoperability across different regions.
7 LACK OF MOMENTUM AND INNOVATION (STAGNATION)			
••••••	Without financial or policy incentives, the transition to digital permitting can stall, leading to slow progress and inconsistent adoption.	Solution	Financial support mechanisms, including targeted funding for municipalities and awareness campaigns about the long-term benefits, will encourage sector-wide adoption.



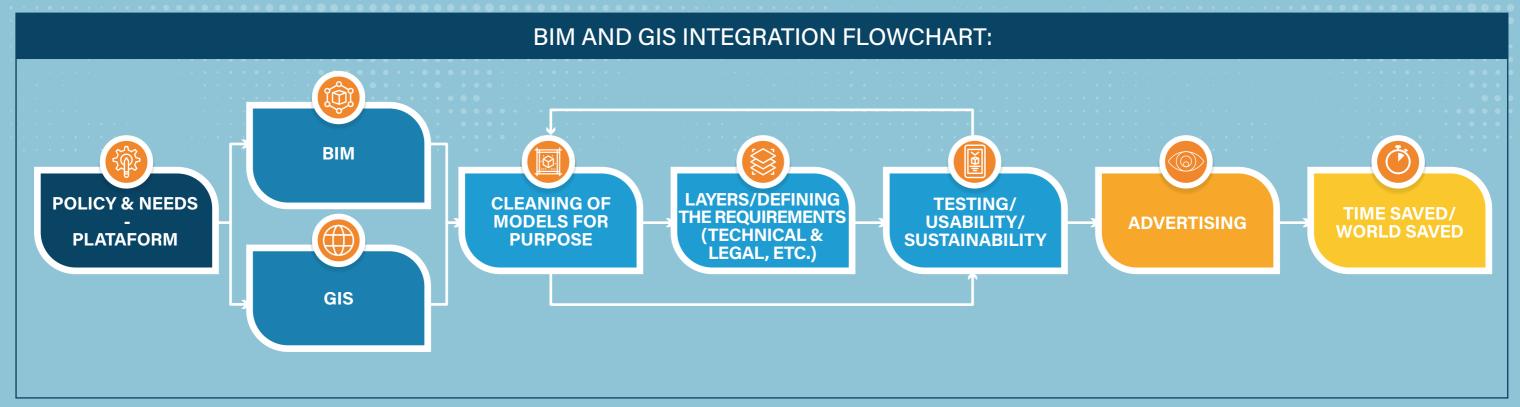
IDENTIFIED CHALLENGES AND PROPOSED SOLUTIONS: FRAGMENTATION IN DATA PRODUCTION AND STORAGE **Challenge** • The lack of standardized data formats and workflows across different **Solution** • Adopting internationally recognized open standards, such as IFC, IDS, BCF, and data dictionaries such as bsDD, will improve data consistency and interoperability, ensuring municipalities and organizations leads to inefficiencies and compatibility issues. seamless integration across jurisdictions. **INCONSISTENT TERMINOLOGY AND DATA DEFINITIONS Challenge** • Different municipalities and stakeholders often use varied terminology **Solution** • Developing a national or EU-level data dictionary will standardize terminology and definitions, and data structures, causing confusion and inefficiencies. facilitating clearer communication and data exchange. **SCALING DIGITAL PERMITTING SOLUTIONS ACROSS MUNICIPALITIES** 10 Challenge • Many successful digital permitting implementations remain isolated, **Solution** • Encouraging knowledge-sharing among municipalities, creating adaptable frameworks, and offering technical support will ensure scalability and consistency in BIM-based permitting making it difficult to replicate them in other regions. across regions. **DEPENDENCE ON PROPRIETARY, CLOSED-SOURCE SOFTWARE (VENDOR LOCK-IN) Challenge** • Using closed-source software limits flexibility, increases costs, and **Solution** • An EU-wide open-source digital permitting platform would provide cost-effective, scalable, and creates dependency on specific vendors. flexible solutions, ensuring public sector control over digital processes. THE PUBLIC SECTOR'S LIMITED CAPACITY FOR SOFTWARE DEVELOPMENT **Challenge** • Governments often lack the resources and expertise to develop and **Solution** • Making BIM-based permitting attractive to private sector developers through public-private partnerships will drive innovation while ensuring public sector needs are met. maintain sophisticated digital permitting platforms independently. LACK OF MACHINE-READABLE LEGISLATION Challenge Legal texts and permitting regulations are often not formatted in a way **Solution** • Establishing procedures to ensure new laws and regulations are structured for digital that allows for automation or integration with BIM systems. compatibility will enable automated rule-checking and improve efficiency in permitting processes.

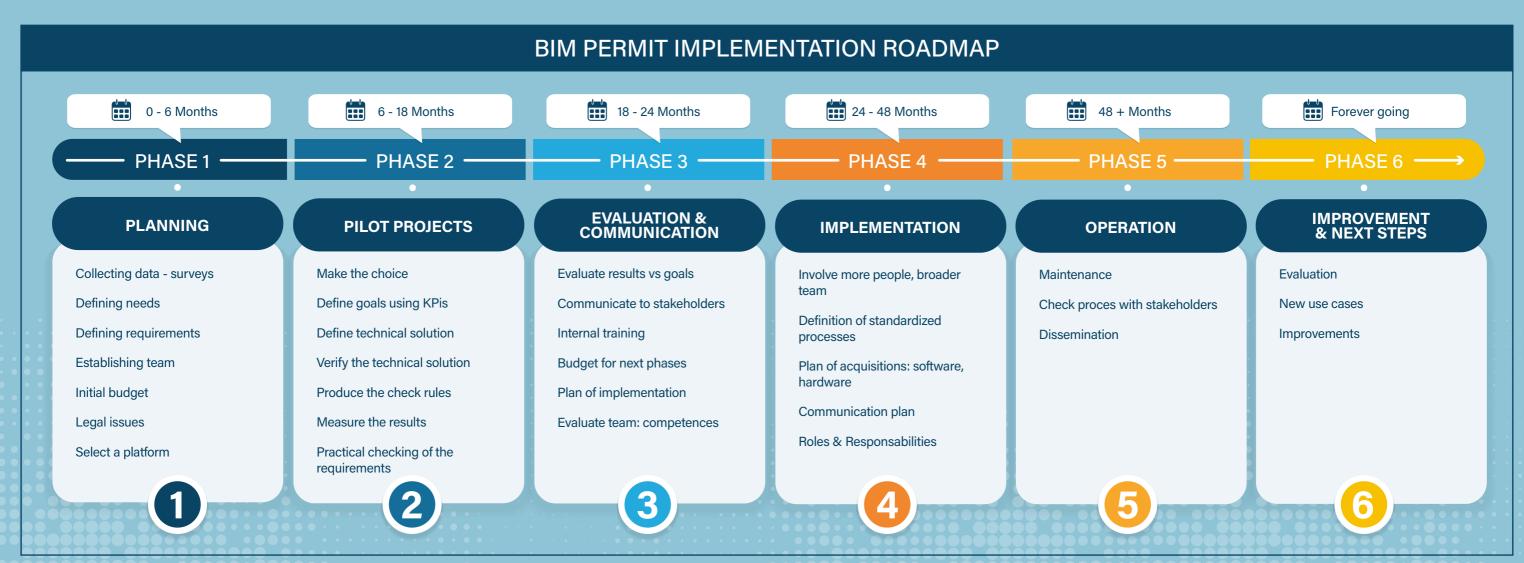
BIM IN PUBLIC SECTOR PROCESSES: BUILDING PERMITS AND URBAN PLANNING



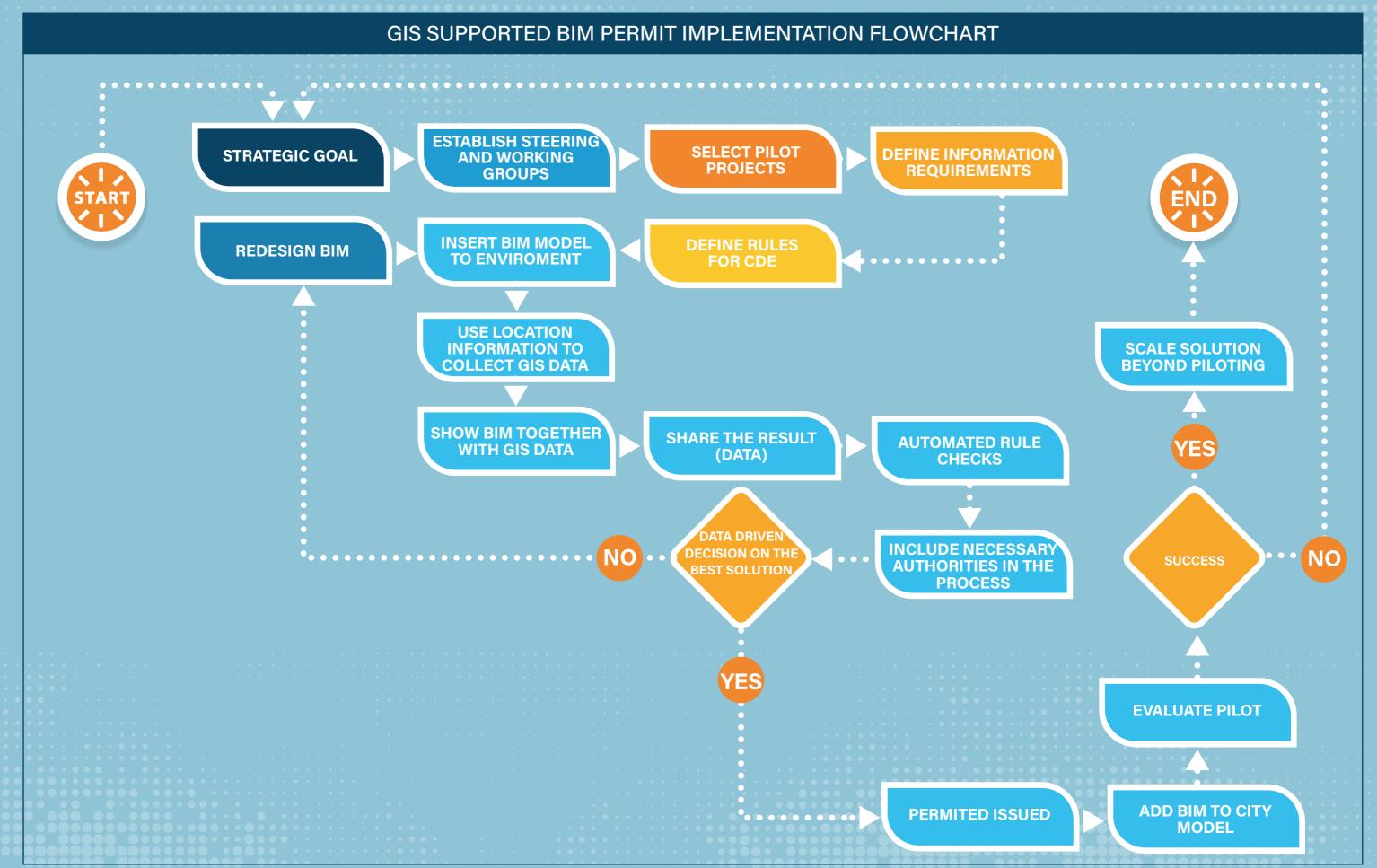














WORKSHOP IX BIM IN PUBLIC SECTOR PROCESSES: BUILDING PERMITS AND URBAN PLANNING CONCLUSIONS



The adoption of Open Geospatial Consortium (OGC) and OpenBIM (IFC) standards and principles is fundamental to **achieving interoperability** and a **sustainable digital framework** for BP processes.



Al-assisted automation can enhance the permitting process by **identifying and resolving errors** in architectural submissions while **supporting permit reviewers** in handling ambiguous cases. This contributes significantly to process efficiency and quality assurance.



Digital Building Permitting (DBP) should empower **professionals to focus on critical decision-making** rather than administrative tasks, ensuring technology is leveraged as a facilitator rather than a replacement for human expertise.



For countries with high levels of BIM adoption by the AECO industry, the **transition to BIM-based permitting** is within reach, requiring only a structured approach to



The establishment of a centralized, **open-source BIM processing engine at the EU level**—including non-EU partners such as Ukraine, Norway, and Switzerland—would provide a robust infrastructure for seamless integration and scalability.