

Gathering23

Accelerating BIM adoption

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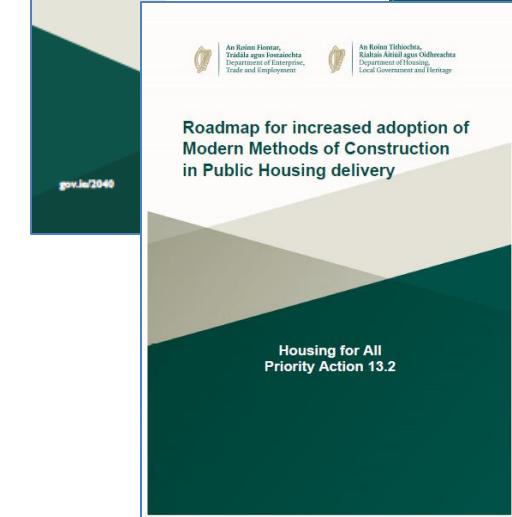
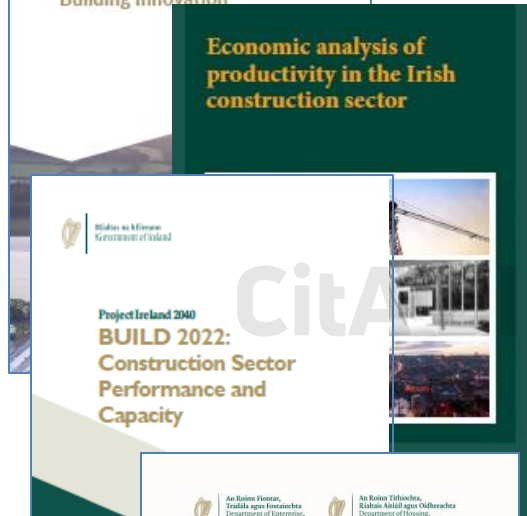
Accelerating BIM Adoption in Ireland

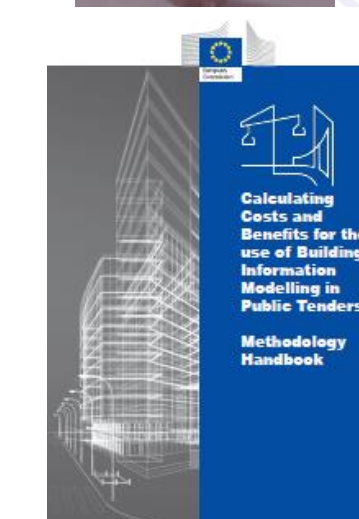
Dr. Alan V Hore
TU Dublin and CitA

12th September 2023



Supporting Innovation and Digital Adoption












Analysis of state of play in BIM adoption across all EU MS

Ireland

Summary

| | |
|--|---|
|  National strategy | <p>Ireland is considered as a BIM early adopter, as the country prioritised BIM adoption since 2014, established a specialised government body (National BIM Council) and developed a national BIM roadmap in 2017. Since 2021 Ireland established the Build Digital Project to support the role out of BIM across the public and private sector. The Build Digital Project comprises one of seven key actions groups managed by the Construction Sector Groups Construction Innovation and Digital Adoption sub-group supported by the government.</p> |
|  Public Procurement | <p>In Ireland application of BIM is not mandatory, even though BIM is widely utilised in public projects of various types, and it is adopted by approximately 76% of Irish construction enterprises. Plans are currently in place to introduce a BIM mandate on a phased basis across public works contracts.</p> |
|  Standards, protocols and classification systems | <p>The Irish authorities are continuously working on adopting international BIM standards and developing new technical parameters and data components, according to the Irish market's needs. The country is currently developing specific national BIM templates and guidelines under the Build Digital Project.</p> |
|  Funding schemes | <p>Aiming at accelerating digital transformation of the construction sector and BIM adoption, the Irish state provides financial support, emphasising on accelerating digitisation of construction enterprises and supporting the upskilling of AECO professionals. Notable support schemes include those supported by Skillnet Ireland and Enterprise Ireland.</p> |
|  Education and professional skills | <p>BIM has long been integrated in Ireland's education and vocational training system. Moreover, Ireland is among the top Member States in terms of participation of construction sector's professionals (15%) in vocational training schemes.</p> |
|  Lifecycle BIM | <p>BIM has been integrated in the entire lifecycle of various public assets (buildings, infrastructure, etc.) in Ireland.</p> |
|  Collaboration with the industry | <p>Irish authorities maintain a continuous collaboration with the industry and academia in terms of BIM adoption. That allowed the co-creation of the national BIM roadmap, Build Digital Project and relevant collaborative initiatives, accelerating BIM adoption. The Construction IT Alliance (CITA) remains very active in promoting BIM adoption.</p> |



Maturity scan



Open Source Handbook



Best Practices



Training webinars



European Innovation Council and SMEs Executive Agency

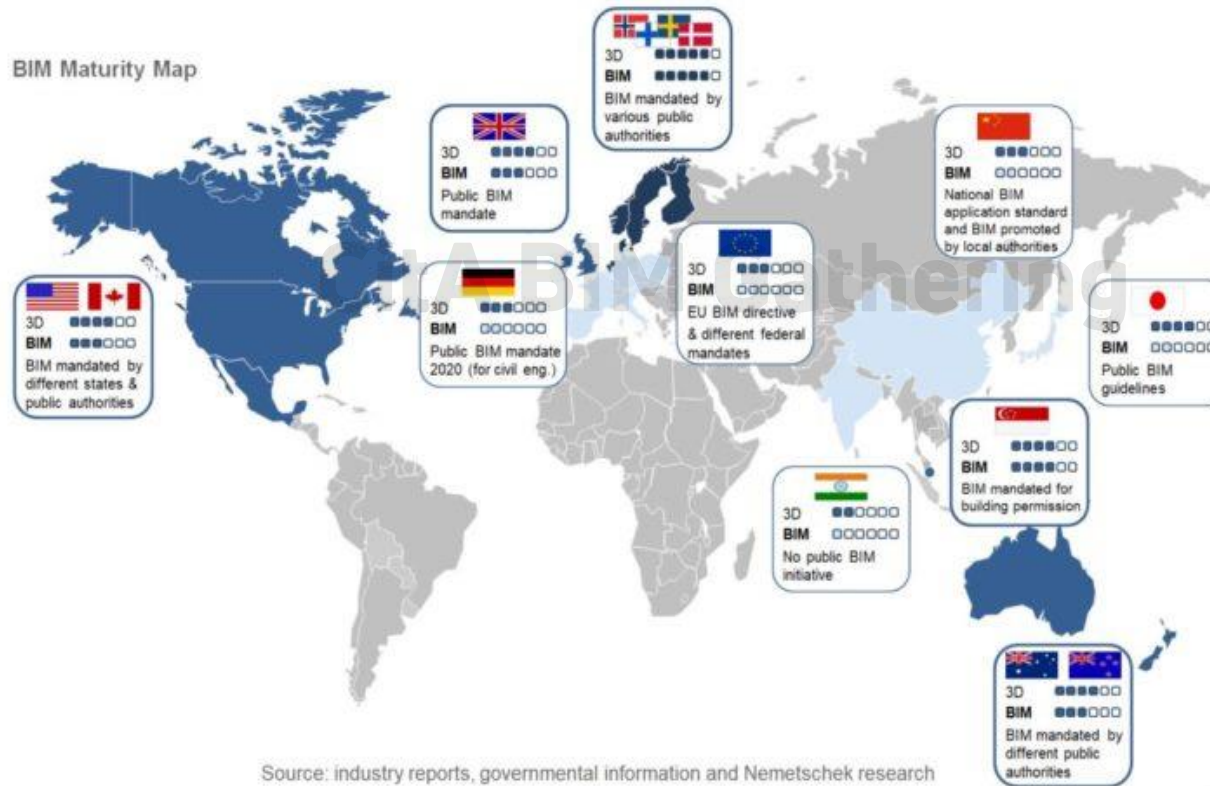


Most Influencing BIM Countries

BIM – Influencing Countries

Top 5

- Nordics
- Singapore
- USA/Canada
- UK/ Ireland
- Australia/ New Zealand



Source: industry reports, governmental information and Nemetschek research

Build Digital

EXECUTIVE SUMMARY

Pillar 4

Digital Procurement

Supporting the delivery of Information Management and BIM in Ireland: Learnings from Selected International Regions

www.builddigitalproject.ie/five-pillars

June 2023

This report was produced under Project Inland 2040 and the work of the CSG Innovation and Digital Adoption Sub-Group

Eilias na hÉireann
 Government of Ireland
 2040

An Action Plan to Accelerate Building Information Modeling (BIM) Adoption (2018)



KEY NATIONAL INTERVENTIONS

Motivation - set the right motivation for increased BIM adoption and effective monitoring of BIM capability.

Collaboration – work in a culture of collaboration, supported by standard information flows allowing for improved use of BIM to support better projects.

Enablement – enable all stakeholders to acquire the skills, knowledge and support to drive the cultural change required to realise digital transformation.

A nighttime photograph of a cityscape. On the left, a large stone bridge with multiple arches spans across a body of water. The bridge is illuminated with warm lights, and its reflection is visible in the water. In the background, a large, ornate church with a dome and two tall spires is lit up. The sky is a mix of purple and blue, suggesting dusk or dawn. The water in the foreground is calm, reflecting the lights from the bridge and the church. The overall mood is serene and urban.

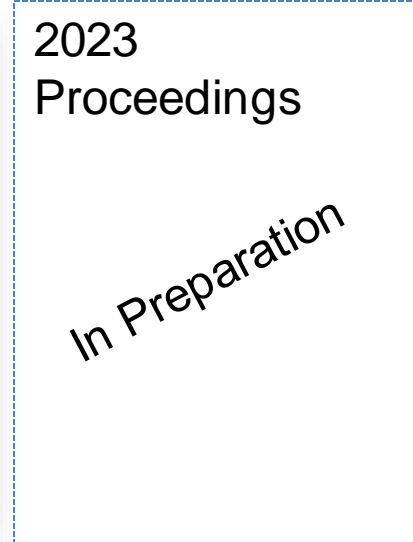
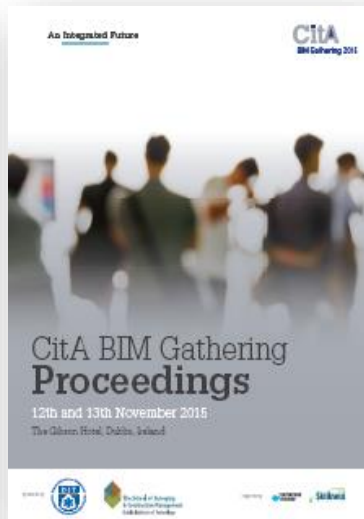
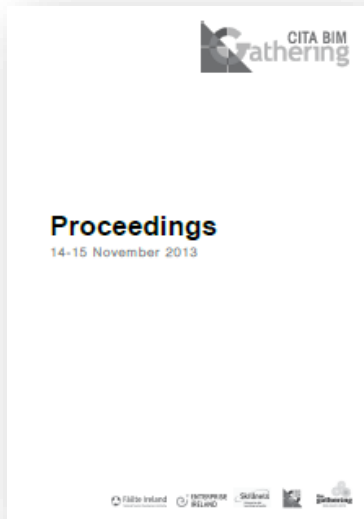
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Themes Aligned to WEF Action Plan
to Accelerate Building Information
Modeling (BIM) Adoption (2018)

A rich catalogue of published proceedings 2013 - 2023



Actions to motivate the industry to accelerate their use of BIM

| Articulate BIM's benefits across the entire lifecycle | Companies | Industry Groups | Government |
|---|------------------|------------------------|-------------------|
| Promote BIM capability to support corporate growth | X | | |
| Disseminate case studies and monitor national BIM adoption | | X | |
| Use BIM for public assets and demonstrate benefits in pilot projects | | | X |
| Think of BIM as a value creator, not as a cost factor | Companies | Industry Groups | Government |
| Develop benchmarks where costs and benefits can be measured | X | | |
| Develop a collaborative industry standard for calculating BIM ROI | | X | |
| Publish BIM ROI assessments of pilot projects | | | X |
| Approach BIM as the essential first step in digital transformation | Companies | Industry Groups | Government |
| Avail of national supports to support digital transformation | X | | |
| Prepare guidance to support digital transformation of SMEs | | X | |
| Create national BIM guidance for public assets | | | X |

Actions to support working more collaboratively with BIM

| Use integrated contracts and redefine risk-return mechanisms | Companies | Industry Groups | Government |
|--|------------------|------------------------|-------------------|
| Prepare to respond to BIM requirements on PWCs | X | | |
| Prepare international procurement review and guidance | | X | |
| Increase the share of PWC's that use integrated contracts | | | X |
| Set up early collaboration and communication among stakeholders | Companies | Industry Groups | Government |
| Revise corporate cultures, and processes for increased collaboration | X | | |
| Disseminate benefits of collaboration through appropriate channels | | X | |
| Develop strategic collaboration contracts and supporting guidance | | | X |
| Establish data-sharing standards and open systems | Companies | Industry Groups | Government |
| Seek accreditation of international IM standards | X | | |
| Actively engage and promote buildingSMART and openBIM agenda | | X | |
| Develop regulations to protect BIM IP and data ownership | | | X |

Actions to enable BIM Capability in Ireland

| Establish BIM skills along the full value chain | Companies | Industry Groups | Government |
|---|------------------|------------------------|-------------------|
| Avail of a broad set of BIM upskilling programmes and supports | X | | |
| Develop multidisciplinary BIM competencies for all professionals | | X | |
| Support BIM integration into AEC programmes | | | X |
| Change behaviours and processes, not just technology | Companies | Industry Groups | Government |
| Adopt BIM as part of a change management programme | X | | |
| Increase focus on behavioural change and use of BIM | | X | |
| Integrate international IM standards into PWC guidance/contracts | | | X |
| Make a long-term commitment and support construction SMEs | Companies | Industry Groups | Government |
| Exploit BIM related business opportunities and support supply chain | X | | |
| Development of an industry BIM Roadmap & supports for SMEs | | X | |
| Make a long-term commitment to BIM in PWCs & support SMEs | | | X |

Conclusion

- Relevance of WEF 2018 framework for Ireland
- Importance of CitA BIM Gatherings and other national fora (Digicon, BIM Coordinators Summit etc.)
- Need for a renewed focus/order for BIM use in Ireland
- Re-establishment of National BIM Council of Ireland recommended
- National BIM Roadmap for Irish industry aligned to national priorities
- Encouraging to see the introduction of 2024 BIM mandate
- Construction Sector Group, Construct Innovate and Build Digital have an important role to play in driving BIM adoption in Ireland



Irish National BIM
Policy Alignment
Survey

A nighttime photograph of a stone bridge with multiple arches spanning a river. In the background, a large, illuminated church with a dome and two towers is visible. The scene is reflected in the calm water of the river. The sky is dark with some light clouds.

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THANK YOU