



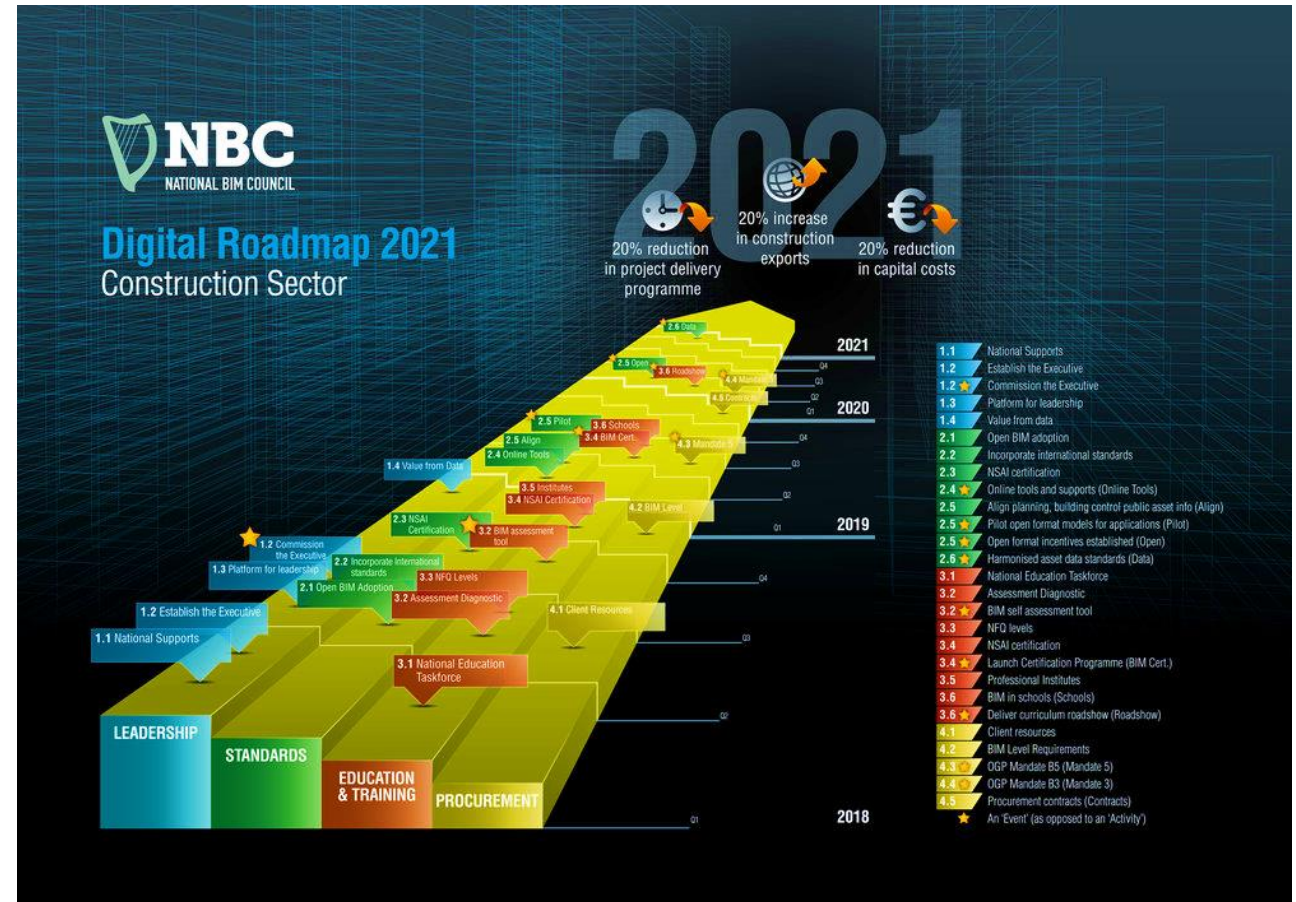
From Roadmap to Implementation: Lessons for Ireland's Digital Construction Programme

Presented by Dr. Alan V Hore



AGENDA

- BIM in Ireland 2019
- World Economic Forum
- WEF BIM Adoption Circle
- Sample
- Findings
- Conclusion





BIM IN IRELAND

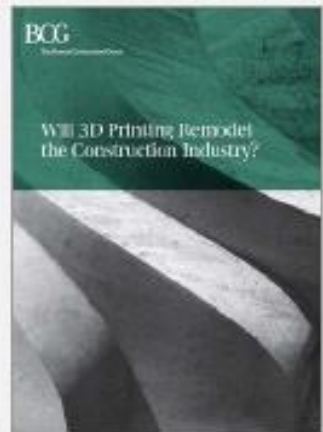
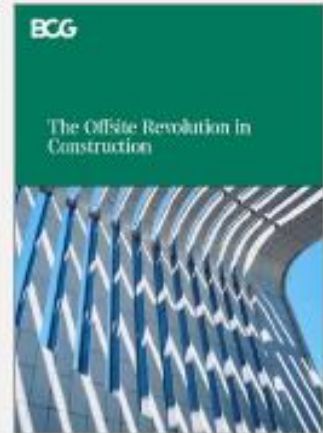
- Context & Challenges
- Learning from Others
- BIM in Ireland
- BIM Maturity in Ireland
- Leadership and Funding Needed
- Conclusion





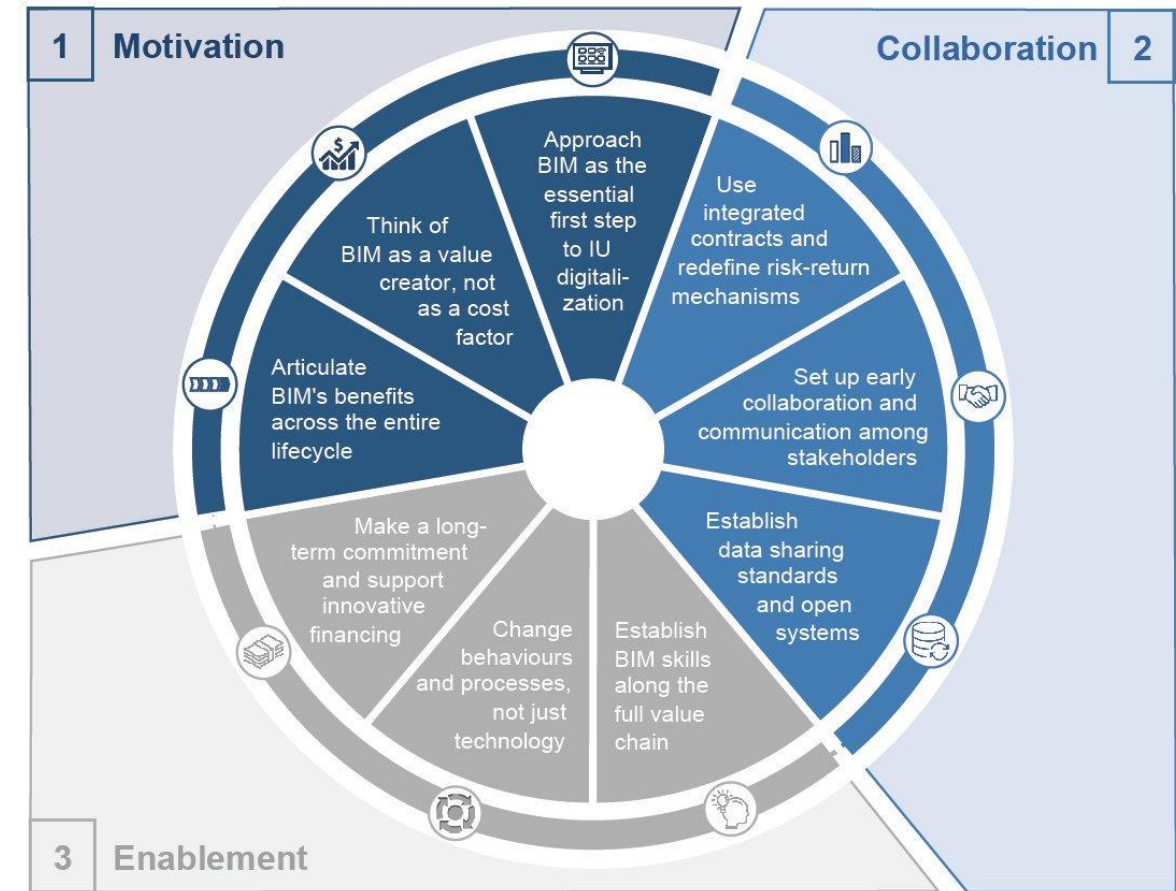
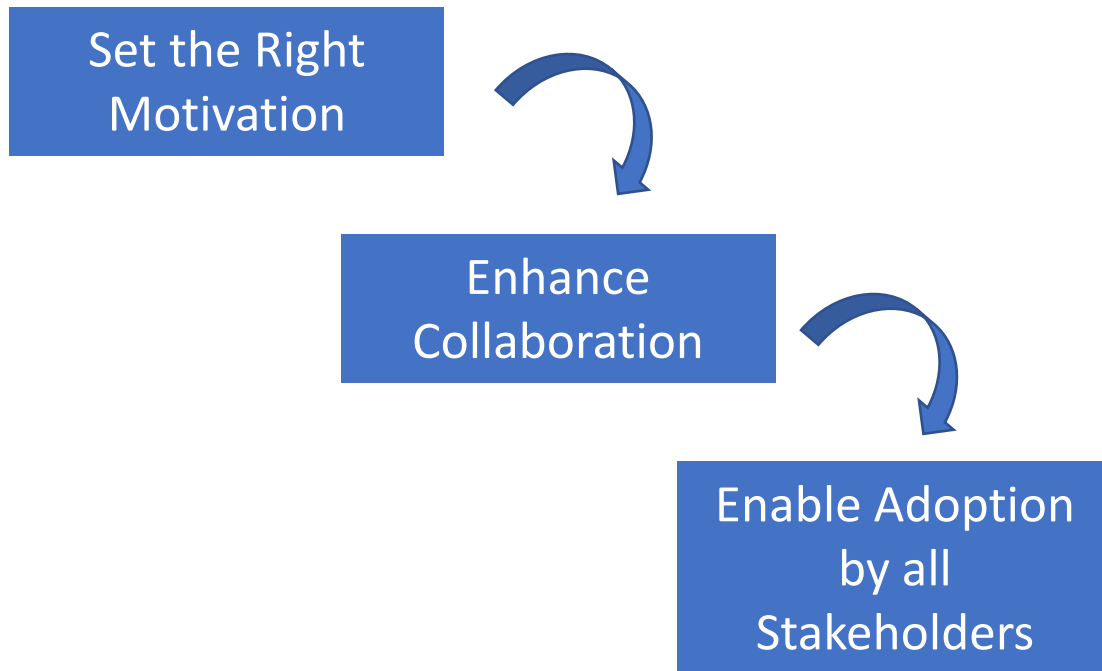
WORLD ECONOMIC FORUM

- Transformation Technology
- Future of Construction Series
- Disruptive Technologies
- Cultural Change Required
- Productivity Concerns in Sector
- Leadership and Intervention





WEF BIM Adoption Circle

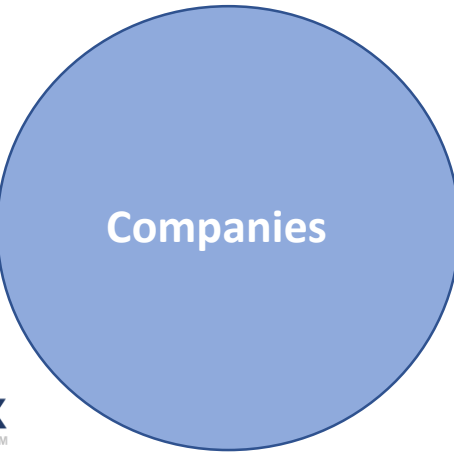




SAMPLE

ARDMAC
Building Better

ARCDOX
ENABLING & SUPPORTING BIM



bam

UISCE
ÉIREANN · IRISH
WATER



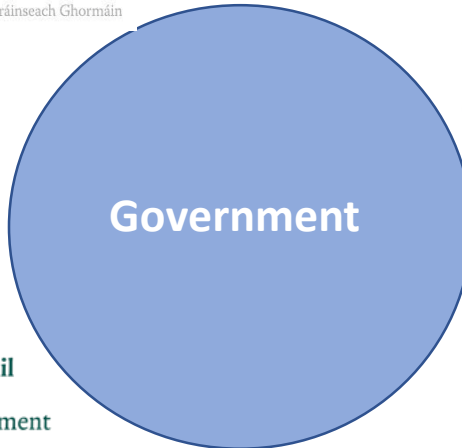
An Roinn Tithíochta,
Pleanála agus Rialtais Áitiúil
Department of Housing,
Planning and Local Government

Varming
Consulting Engineers



Grangegorman
Development Agency
Gníomhaireacht Forbartha
Ghráinseach Ghormáin

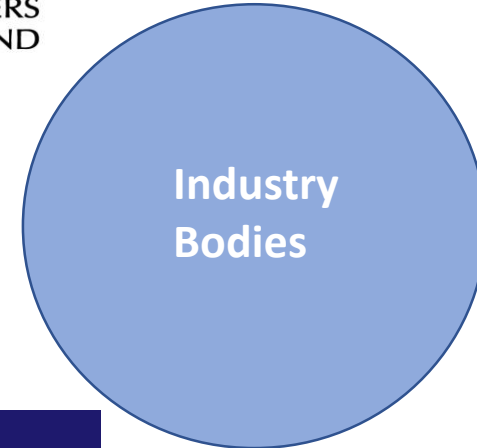
NSAI



**ENGINEERS
IRELAND**

TII
Bonneagar Iompair Éireann
Transport Infrastructure Ireland

Dublin City Council
Comhairle Cathrach Bhaile Átha Cliath



RIAI

ACEI ASSOCIATION OF
CONSULTING ENGINEERS
OF IRELAND

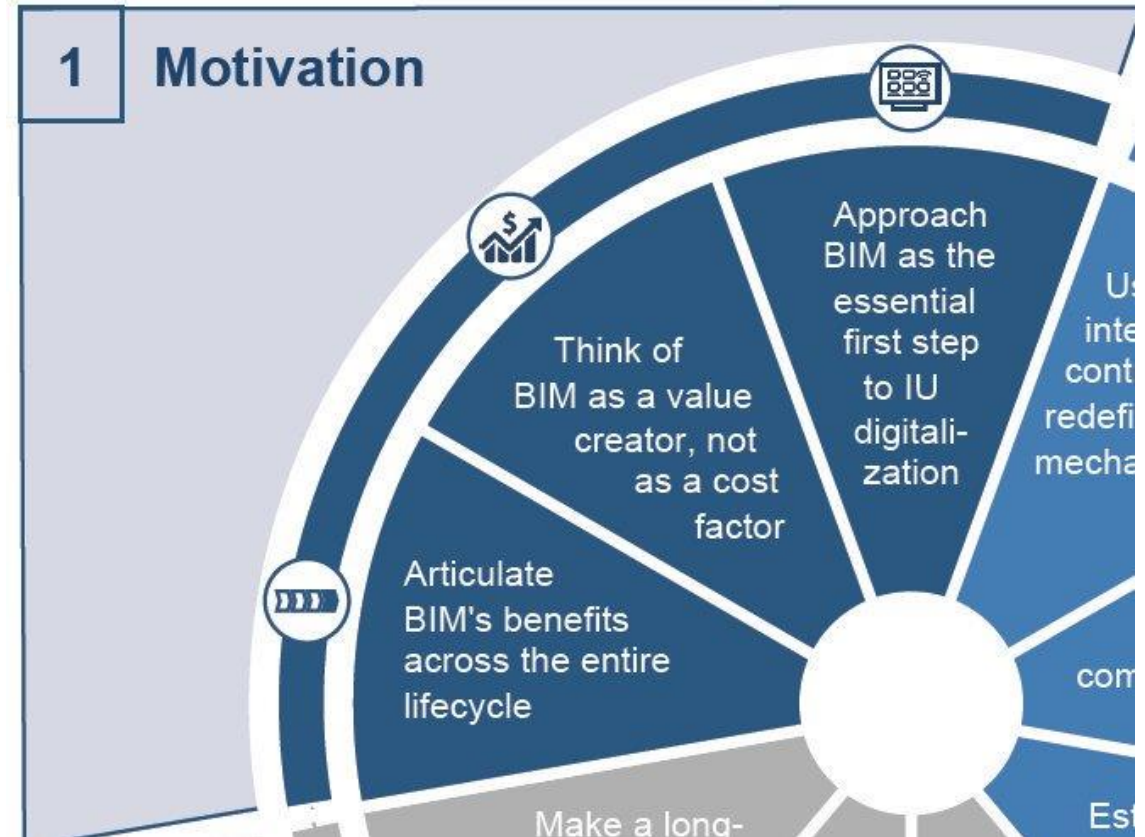


**SOCIETY OF
CHARTERED
SURVEYORS
IRELAND**



FINDINGS

- Government need to play a key role
- Mandate on public works projects is essential
- Need for an entity to manage change programme
- NBS Roadmap should be implemented immediately
- BIM not seen as the 1st step





FINDINGS

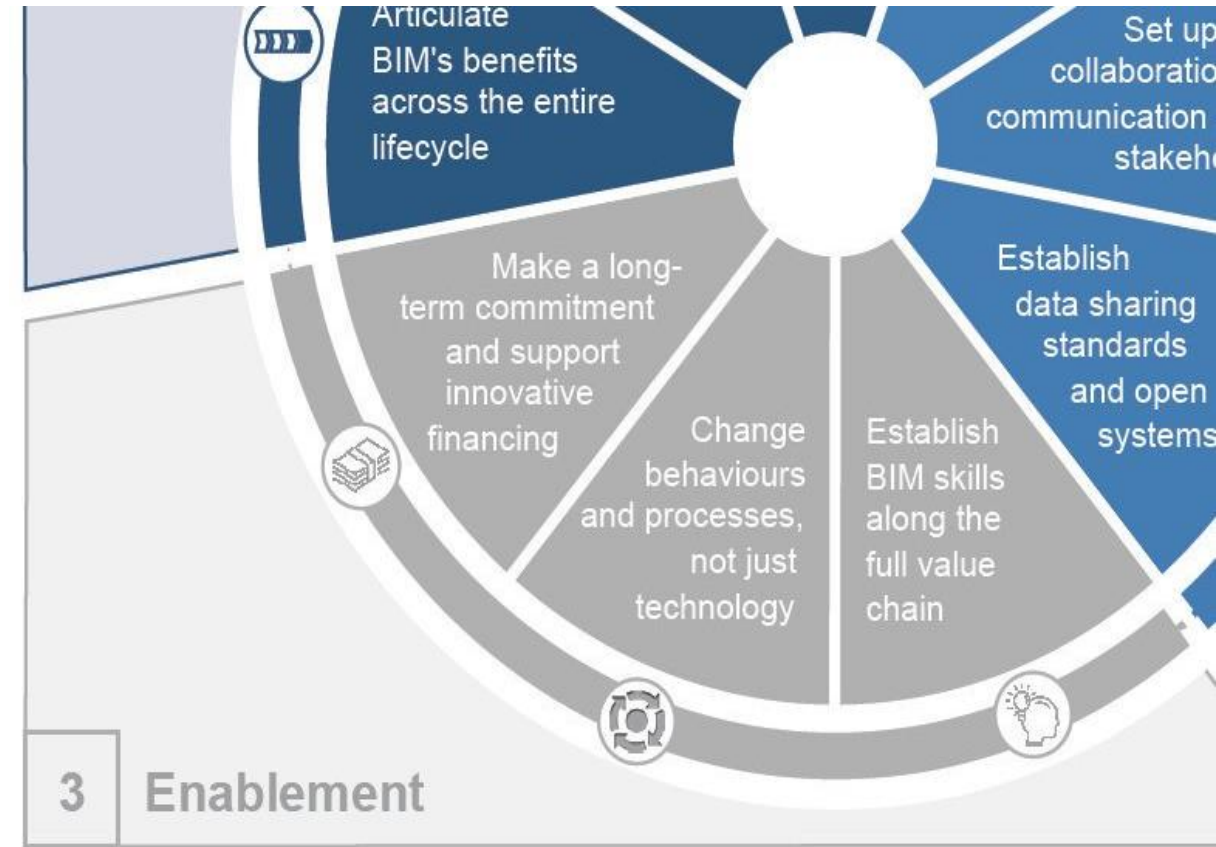
- Establish a co-ordinated leadership platform in the short term
- Standardised government guidelines are needed to support the OGP Strategy
- Clarity needed on integrated contracts
- Adapt PWCs to work with BIM





FINDINGS

- Imprecision of language used by WEF
- Cultural change needed by leaders and policy makers
- Urgent need for public sector entities to upskill in BIM





Shared Responsibility	Companies	Government	Industry Bodies
Articulate BIM's benefits across the entire lifecycle	√	√	√
Think of BIM as a value creator, not as a cost factor	√		
Approach BIM as the essential first step to IU digitalization	√		
Use integrated contracts and redefine risk-return mechanisms		√	√
Set up early collaboration and communication among stakeholders	√	√	
Establish data sharing standards and open systems		√	
Establish BIM skills along the full value chain		√	√
Change behaviours and processes, not just technology	√	√	
Make a long-term commitment and support innovative financing		√	



CONCLUSIONS

- Mirroring WEF methodology
- Issues with terminology
- Limitations of Sample Size
- Significance of Government Input
- Shared responsibilities of actions
- What the Future Holds

'I feel BIM as a process has too much jargon, simplifying the language will make BIM accessible to all members of project teams. From experience people can be intimidated by all the technical terms used in BIM execution plans and tend not to engage'

'Careful alignment should be given to the specific actions in the NBC roadmap'



Thank you