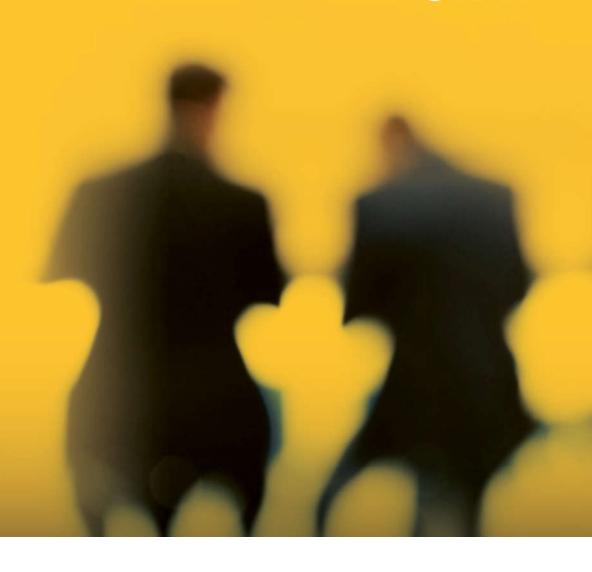
Gathering 21

Construction Innovations for Future Generations

Brendan Joziasse

The application of BIM processes and standards in the context of the façade manufacturing industry







Brendan Joziasse

BIM Coordinator / Architectural Technologist – Henry J Lyons
MSc in Applied Building Information Modelling & Management – Technical University Dublin
BSc (Hons) Architectural Technology – DIT Bolton Street / Technical University Dublin



Emma Hayes
Managing Director, Digital Built Consultants Ltd

Chartered Architectural Technologist
MSc in BIM Management
20+ Years in AEC Industry





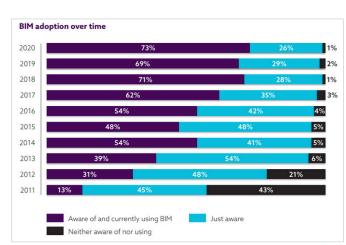


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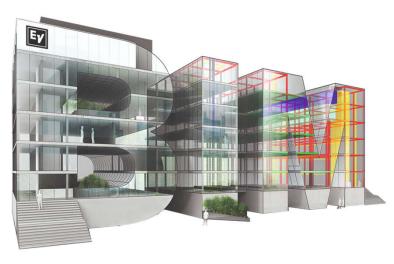
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"Can current BIM standards and technologies be applied to, and adopted, by the façade industry to meet their needs and the requirements to be BIM Stage/Level 2 compliant?"





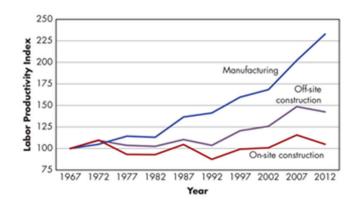
2. Typical Construction Process

Typical Stages		RL	RIAI Work Stages	
1.	Concept System	1.	Inception & General	
	Design		Services	
2.	Outline Design	2.	Outline Proposals	
3.	Detailed Design	3.	Scheme Design	
	Proposal	4.	Detail	
4.	Tender		Design/Building	
	Documentation/		Regulations	
	Execution Design	5.	Production	
5.	Manufacturing		Information	
6.	Assembly	6.	Tender Action	
7.	Use and	7.	Project Planning	
	Maintenance	8.	Operations on Site	
8.	End of service life		and Completion	





Construction Process







- 1. Barriers Associated with BIM,
- 2. Technology Barriers,
- 3. People / Human Factors,
- 4. Business Associated Factors, and
- 5. External Barriers.





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Interview participants

- · Active Participants in the Construction Industry.
- Relevant experience with facades on construction projects.
- Exposure to BIM on projects, BIM adoption or in-depth knowledge were not essential.

Two Main themes and sub-themes:

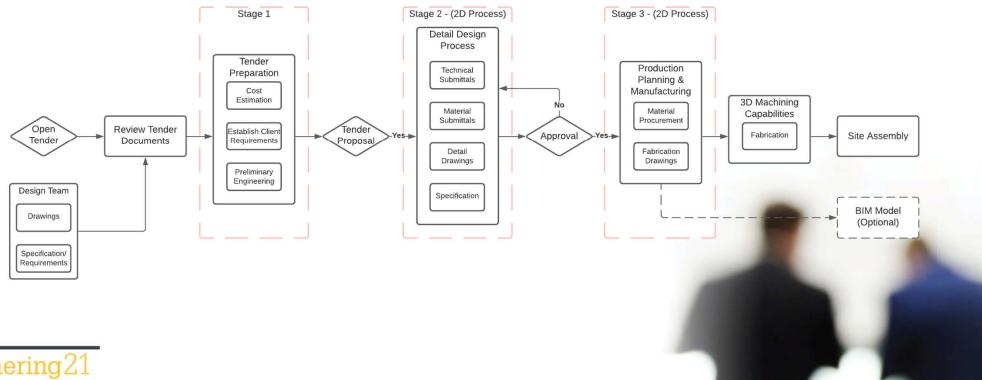
- 1. Process & Common Practice
- 2. Barriers Associated to BIM
 - Knowledge & Understanding.
 - Business & External Barriers.
 - Technology Barriers.





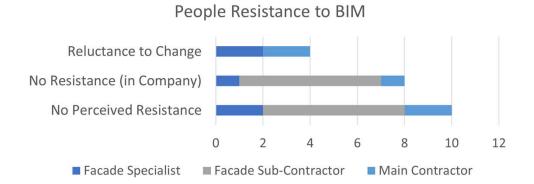


Process & Common Practice









- Knowledge & Understanding.
- Business & External Barriers.
- Technology Barriers.







Value In Adoption No Value In Adoption (to Internal Process) No Value In Adoption Asset Towards the End 0 1 2 3 4 5 6

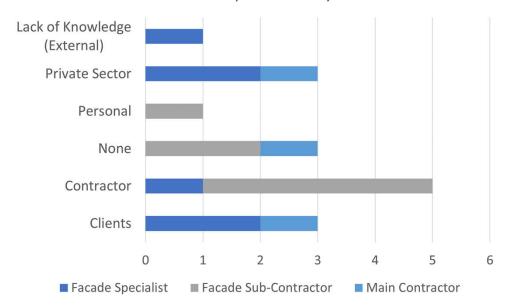
- Knowledge & Understanding.
- Business & External Barriers.
- Technology Barriers.







External Pressure Experienced by Interviewees





- Knowledge & Understanding.
- Business & External Barriers.
- Technology Barriers.





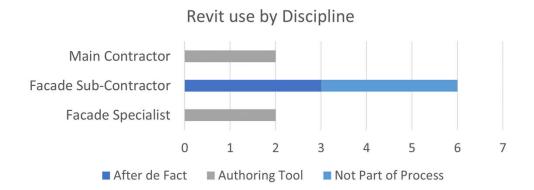




- Knowledge & Understanding.
- Business & External Barriers.
- Technology Barriers.







- Knowledge & Understanding.
- Business & External Barriers.
- Technology Barriers.









- 1. Change Requirement,
- 2. Process Change,
- 3. Further Process Improvements
- 4. Open Discussion Forum



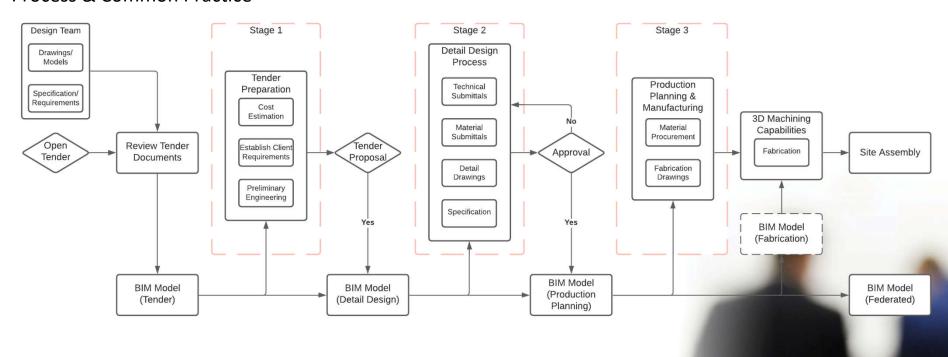




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Process & Common Practice

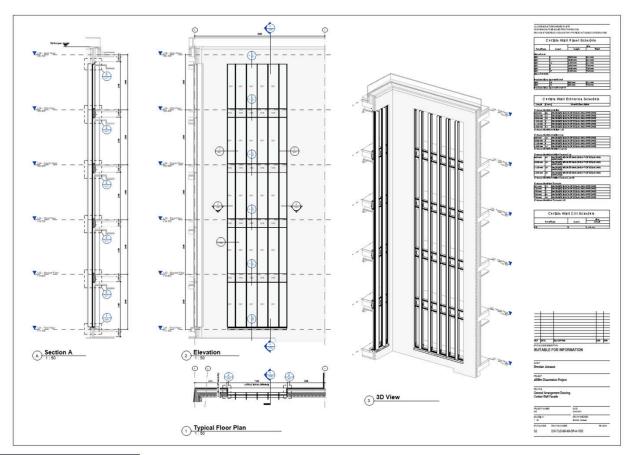






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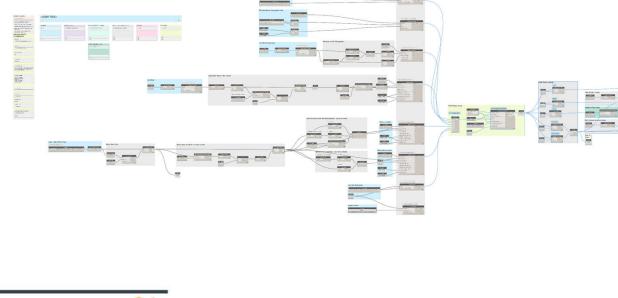




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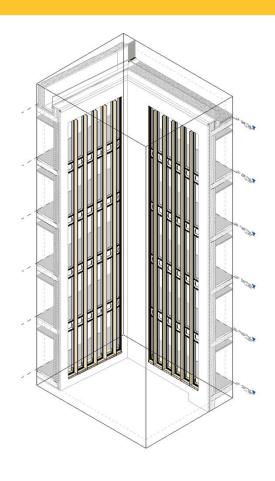


- 1. Change Requirement,
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THANK YOU!



