

Modelling Building using BIM implementation over outdated CAD informatics systems



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Personal Information

- ▶ From Kerry but living in Cork
- ▶ BEng in Energy Systems Engineering from NUI Galway.
- ▶ Degree was attained in the Mechanical Engineering branch of engineering.
- ▶ Attending IT in AEC full time
- ▶ *Areas of Interest include:*
 - *Renewable Energy*
 - *Energy Conservation/Efficiency*
 - *BIM (ie. Applying the above to building information systems)*

Personal Information (Work Experience)

- ▶ *Project Engineer at Southwest Engineering (05/15 – 06/16)*
 - *As project engineer I was responsible for designing both mild steel & stainless steel structures for use in water & wastewater treatment plants.*
 - *I have been involved in ensuring that solid calculations were made in justifying the structures that were designed.*
 - *As the RWC I had to record and track the steel that was used in each particular job and provide the client with a declaration of performance, that would ensure them everything was traceable should it be required.*
 - *It was my responsibility to ensure all manufactured products conformed to EN1090 standards.*

Project Proposal

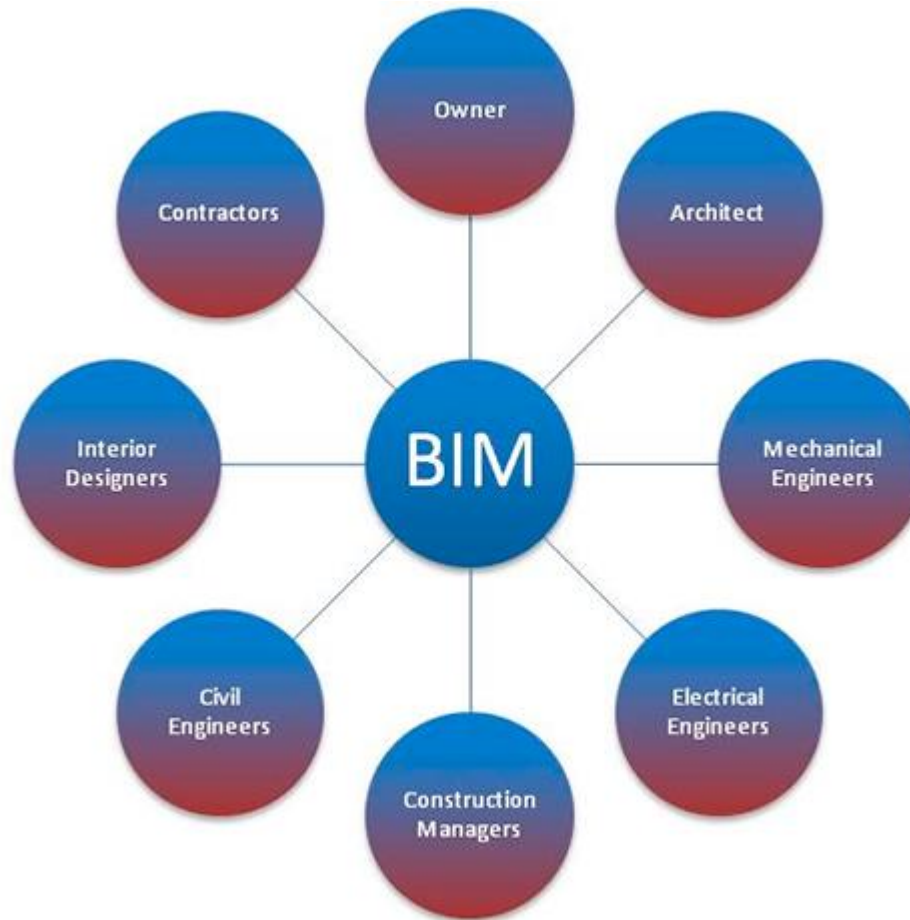
- ▶ *I plan to design a proposal for the manager of a SME (ie. Southwest Engineering) that would convince him that the implementation of BIM technologies such as autodesk Revit Structure & MEP would compliment the Factory Production Control IT system that was introduced as part of EN1090 Standards. The proposal will identify, quantify & reiterate the pros & cons of both BIM & 2D CAD systems so that the manager will be a make an informed decision on whether of not to invest in the technology. I will also highlight problems that I experienced using the present system within the firm.*

Issues Prohibiting Implementation

- ▶ Legislation: mandatory level 2 BIM in both private & public sectors on all projects over a certain threshold.
- ▶ Education & Training
- ▶ Cost
- ▶ Attitude to change
- ▶ Managing ITC infrastructure

Solution

Shared Project Model vs Information Chaos





Questions?