

Modelling Building using BIM & Cloud Computing over outdated CAD informatics systems



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Introduction to proposal

- ▶ Discuss for the reader current state of the AEC industry in Ireland.
- ▶ Explain that the industry has been slow to adopt current ICT advancements compared with other industries that have been more successful.
- ▶ Discuss the role of the SME's to the industry.
- ▶ Identify in brief the solution to effective design and collaboration between SME's.
- ▶ Discuss the benefits of adopting the technologies available for SME's.

21st Century Design & Communication

In this section we discuss for the reader:

- ▶ **What is BIM?** Where did it come from and what the four key pillars of BIM represent (ie. Collaboration, representation, lifecycle and processes)?
- ▶ **What is Cloud Computing?** How has communication changed over the past 500 years? The different types of communication whether it is synchronous or asynchronous?
- ▶ **Linking BIM & Cloud Computing:** In this section we discuss for the reader the interoperability of traditional BMS and how “linked data” provides a mechanism through which information silos can exist in a homogeneous format. Representing building data, such as a Building Information Model (BIM), using the linked data format, will allow it to be combined with linked data from other relevant cross domain silos.

Current industry issues

In this section I discuss some of the examples I experienced whilst working in industry.

- ▶ For example I discuss how having access to a BIM central repository from the leading contractor would have allowed for a more efficient workflow on behalf of the SME and would have cut down the lead time on specific projects.

Solutions and case studies

- ▶ In this section I will examine the success stories of previous SME's that have implemented cloud computing with BIM and prospered from it. Essentially leaving a blueprint or roadmap for any SME to weigh up there options for better and more efficient collaboration and work processes among each other.

Discussion and Conclusion

Currently have not begun this section but aim to have conveyed the necessity for all SME's in the AEC industry to adopt the discussed technologies for the continued success of their business.



Thank you for listening.