



Complex Processes of Design and Engineering

Subject

The modern realizations of Blob designs ranged from successes to big disasters. The interaction between team participants has shown to be an important factor in the process. The extra complexities arising from blob designs requires a new way of collaboration between the participants. Therefore it is time to study this interaction more closely to discover how it relates to the success of the design realization and the innovativeness of the project.

Goal

To develop a broad understanding of the collaborative interaction between designers and engineers in the context of complex projects with a strong expressed or implicit need for technological innovation.

Expected Results

A generic model will be developed to support the collaborative interaction between designers and engineers who are aiming for technological breakthrough innovations in the building industry.



Complex Processes of Design and Engineering **The role of interaction in breakthrough innovations**

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Goals

To develop a broad understanding of the collaborative interaction between designers and engineers in the context of complex projects with a strong expressed or implicit need for technological innovation.

Research Question

How can we, in a realisation process for innovative architecture, describe the relationship between on the one hand the interaction taking place between project participants and on the other hand the project outcome on innovativeness, when we strive to model the relationship in a generic model?

Strategy

Both qualitative and quantitative research methods in a sequential mixed method approach will be used for the research.

Expected Results

A model will be developed to support the collaborative interaction between designers and engineers who are aiming for technological breakthrough innovations in the building industry.

Preferred Partners Applications / Sponsors

Branch institutes, design and/or engineering firms in the building industry.

Research Period

2008 - 2012