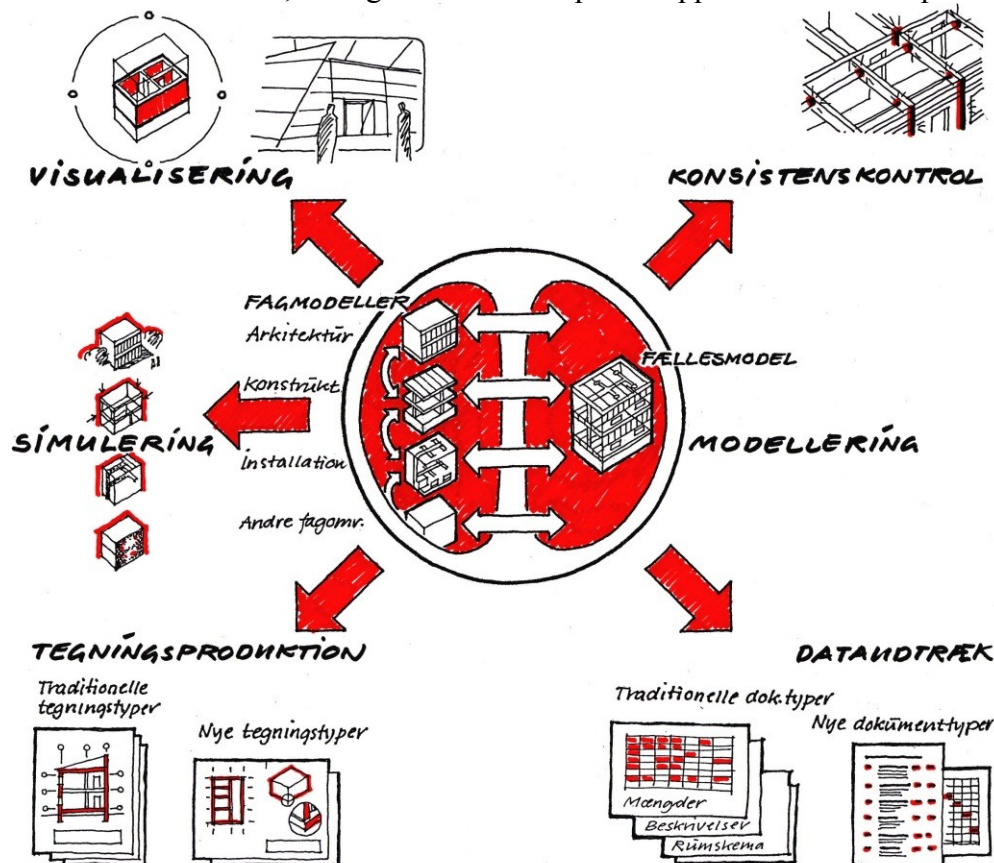


Intelligent trees

3D-modeling of trees with link to a database with basic information of relevance for the designers within landscape Architecture.

In Denmark, all public construction-work within architecture and engineering is constructed, using a common digital platform and working in three-dimensional models after the principles of BIM (Building Information Modelling). Until now BIM has not been a requirement in relation to landscape-detailing, but as the IT-software and processes are refined and the shifting focus towards environmental planning, it is supposed to be a key element in all public supported projects in the near future. BIM is based on the idea of 'intelligent objects' that not only are a drawing-symbol in a digital drawing, but objects that bears information in to the projects. Information useful both in the design-presses as well as on construction-level, letting the landscape architect withdraw data lists, e.g. ordering lists.

This project will investigate the possibilities of bringing plants in to BIM-modelling-processes. The idea is to start modelling some few trees and connect them with basic information. The goal is to create a platform and framework, letting architects and plant-suppliers build more plants.



The idea of BIM is to use the digital platform not only to create a drawing, e. g. a Planting-plan, but to have a more informed process between the different engineers, architects and landscape architects involved in the project. The illustration shows the tree-dimensional model as an essential part of a working process, and the main source to work through; collision-control, visualizations, simulations, drawings and lists with data of components. Illustration from:

<http://www.bim.byg.dtu.dk/BIMlab/Hvad-er-BIM/BIM-understoetter.aspx>