

Designing Smart Livable Cities

Design methods that integrate technical–scientific knowledge

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02

Flooding

Sun, daylight

03

DTU Civil Engineering has research in design methods that integrate a high level of technical scientific knowledge

Research results:

Design method is the key to creating low energy buildings

Simulation tools play a central role - they inform an ongoing design process with technical scientific knowledge

The first design phases are the most important concerning the buildings energy efficiency

The urban layout determines the buildings ability to perform efficiently

05

traffic

06

Climate change

A new platform for design methods in the urban scale:
DTU civil Engineering: Solar mapping, Daylight, Wind simulation tools
DTU transport: Traffic simulation tools
DTU Environment: Rain and flooding simulations tools
DTU Management: Life Cycle assessment tools