



Integrated Building Information System

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Introduction



6 years at Witteveen+Bos, a Dutch consultancy and engineering firm



Setting up a Digital Construction team and related innovative projects



Background in Civil Engineering, specialization in Building Construction Technology





Stunning skyscrapers

**Foundational infrastructure
on a massive scale**

Challenges of engineering and construction industry

39%

of worldwide
CO2 emissions

30%

less productivity
compared to
other industries

13%

of world's
Gross Domestic
Product (GDP)

Integrated Building Information System



Avoiding mistakes and rework

Better keep track of budgets and timelines.

Increase efficiency such as productivity and materials usage

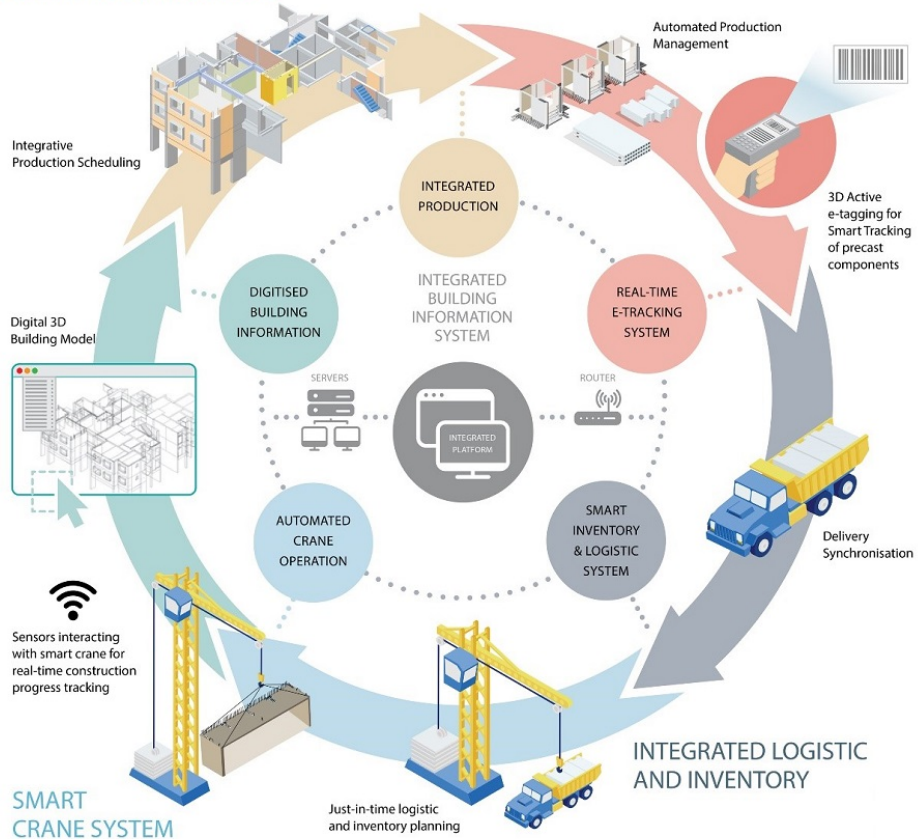
Manage the design and design changes online

We log real-time information to speed up data-sharing

Connected to the construction equipment of the future, such as 3D-printers and automated tower cranes

DIGITAL INFORMATION AND COMMON DATA SOURCE

SMART TRACKING SYSTEM



Learning points



**Working
across
borders**



**Multi-
disciplines
teams**



**Adopting
new
approaches**



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