

Skanska Norway - Statoil Fornebu Facts – short construction time > 67.000m2 in 20 months turnover 8 MEUR p/m.

Challenges – short construction time

Challenge due to short construction time amount of advanced technology test period should have been 3 months



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Learning points – short construction time

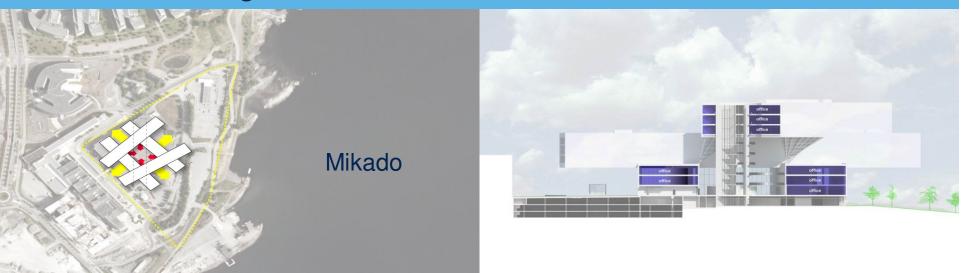
- Intensive construction time scale requires good mobilization both quality and time
- Important to respect testing phase building this hi-tech requires extensive testing



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Facts – spectacular architecture

- Large span maximum span for supporting structure is 55 meters up to 30 meter cantilever High Risk Structure Team involved
- Inspired by Mikado consists of five building shells which are column-free and three floors high



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Challenges - spectacular architecture

- Load-bearing steel beams were prefabricated with a camber of 120mm p no more than 10mm camber upon completion. "Zero" deviation
- Supported by 16 columns > load on each column varies from 3000 to 5800 tonnes.
- Construction of the glass roof in conjuction with building shells



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Learning points - spectacular architecture

Through superb cooperation between contractor, architect and consultants we broke records span + construction time

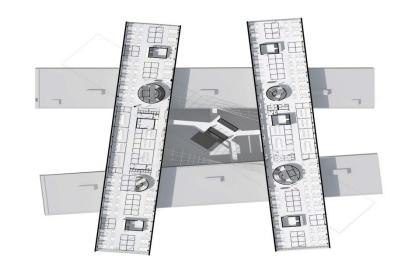


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Facts – advanced indoor climate

- Target world's best indoor climate
- Every technical application managed from one top system which can control every individual component





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Challenges – advanced indoor climate

- Integrated chilled beam tested at factory and after completion. Entire system every individual component
- Communication between involved parties firstly communication between people developing systems secondly between the systems themselves
- Development of the integrated chilled beam the heart/core of the building's flexibility the combination of all climatic requirements



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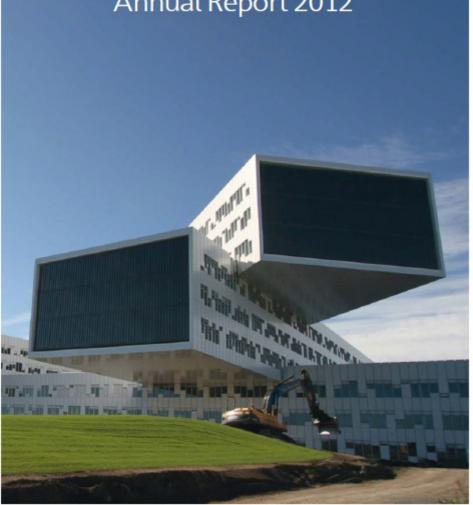
Learning points – advanced indoor climate

- The role of the integrator crucial pred to understand the complexity
- Mock-up room is level of detail, size and scale.
 Everything was testet in the mock-up room



SKANSKA

Annual Report 2012



Association of Consulting Architects in Norway's Developer Award 2012

Statoil Fornebu



