

Aurinkokivi Community Center

From a BIM Based School Project Towards a Comprehensive City Model



Aurinkokivi, Community center

Kivistö
neighborhood,
Year 2030
25 – 30 000
inhabitants

Ring Rail Line
connects the office and
residential areas in
Vantaa with the airport

0 500,0
metri

Aurinkokivi community center Represents Visions and Strategies of city of Vantaa



- BIM is used in all the new construction projects of City of Vantaa

The project targets set by Main Users and the Owner



- Multifunctional spaces used efficiently and in a flexible way by the school and inhabitants
- The curriculum reform + Digitalization
- Architectural design competition was arranged at 2012
- Cost efficiency
- Energy efficiency
- Users participation in designing process
- Art Concept in Kivistö and Aurinkokivi

BIM Targets

- Improve design quality, compatibility and cost efficiency
- Visualisation of the design
- Energy efficiency analysis
- Increase collaboration and information flow
- Better engagement of different project parties, improving the project management prerequisites
- BIM utilisation in the operations and maintenance phase of the building



Extensive use of Bim Model in Achieving the Goals of City of Vantaa

- Finnish Common BIM Requirements 2012 (COBIM)
- BIM Project Plan for Estate Centre was prepared
- City Model of Vantaa

Project Schedule, phases and organisation

