

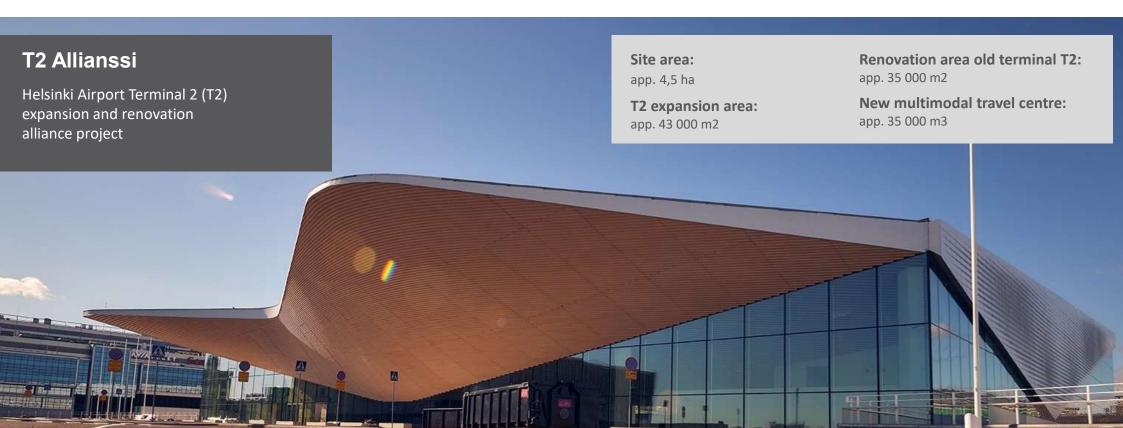
T2 Allianssi

Delivery of a Megaproject with 1-day Takt: Helsinki Airport Terminal 2 22.3.2023

Who am I?

- Jasmiina Hietala
- Project Manager at SRV in T2 Alliance project second phase from 2021
- Leading, visualizing and implementing takt production in T2 Alliance and SRV company's processes
- Trained in LEAN operating models and bringing them into SRV's operations, creating practices and support for projects
- Experience in cooperative construction projects for 10 years
- Graduated from Aalto in 2011





Project consist of two parts:

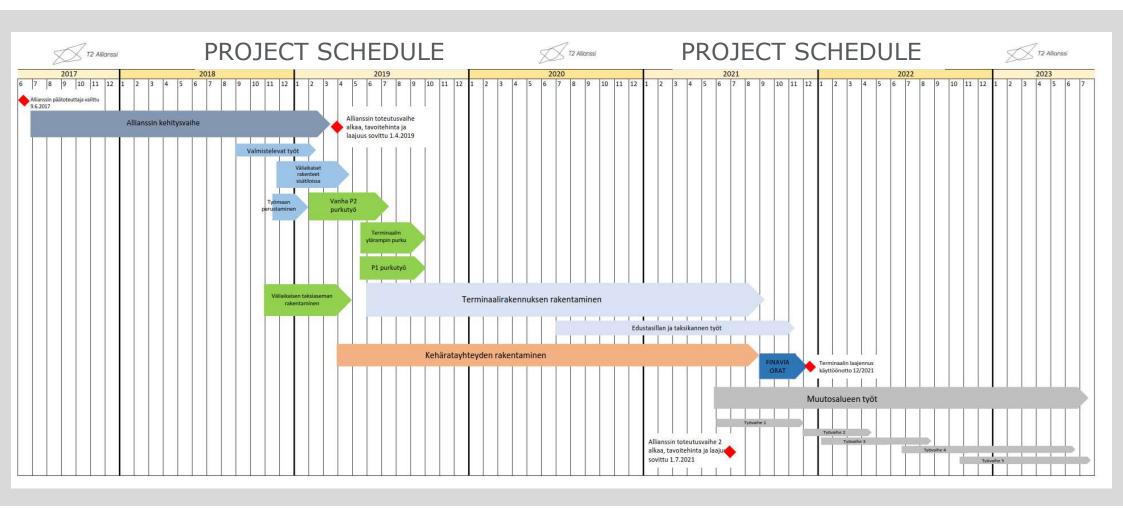
First phase The new expansion part and entrance was opened in 12/2021. At the same time, the new parking and public transportation arrangements and new arrivals hall were taken in use. There is also a multimodal travel centre with enhanced connections between different modes of transport.

Second phase The old arrivals and departure halls of Terminal 2 will be made part of the gate area reserved for flights to and from Europe. ("Schengen")

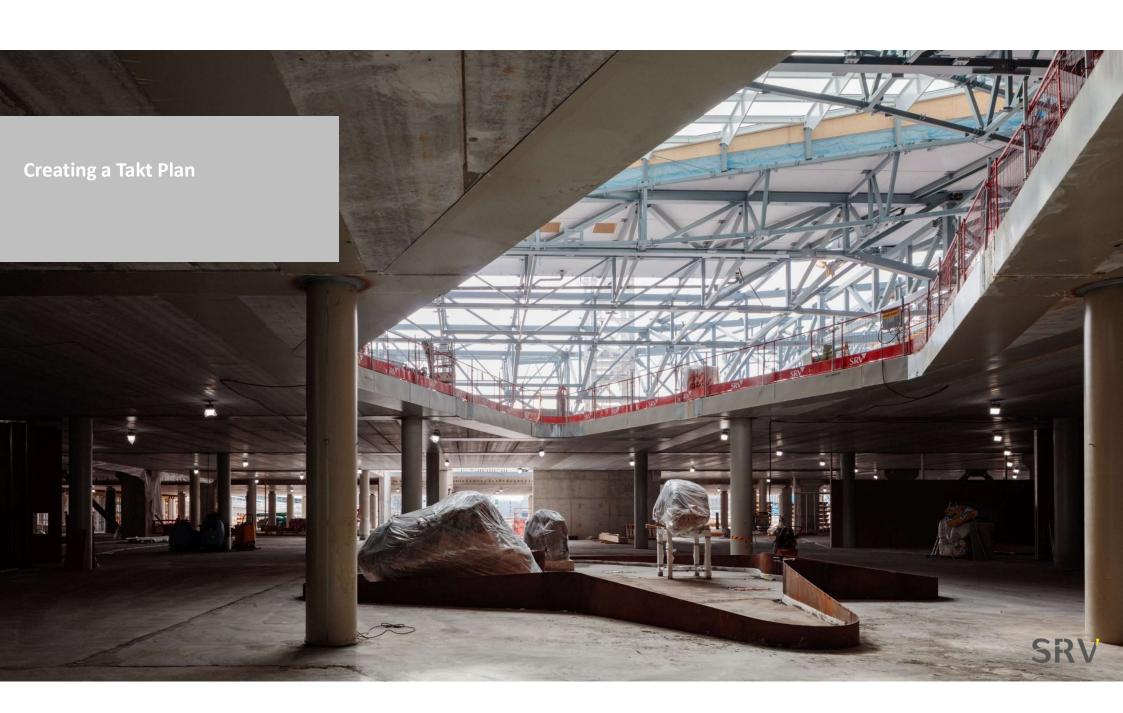
This expansion consists of a completely new entrance with arrivals and departure halls, arrangements for public transport, and an extended area serving traffic to and from Europe, or the Schengen area traffic.





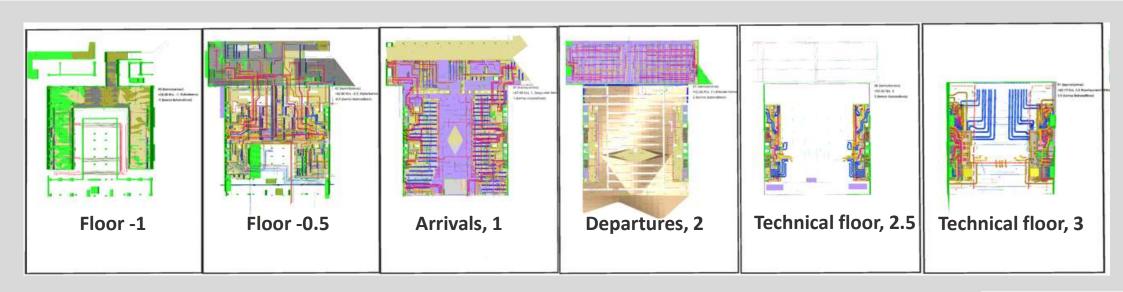




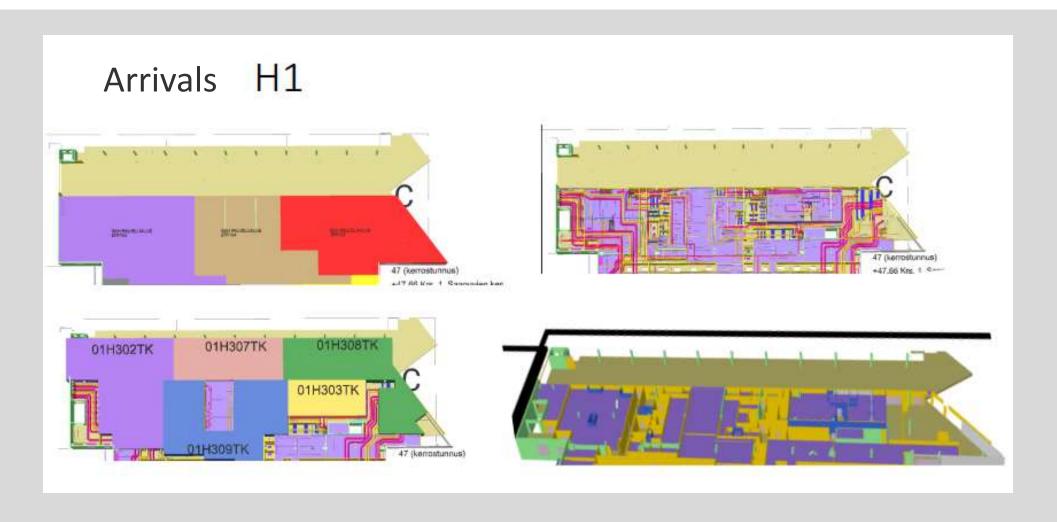


How it began? Visualizing and indentifying takt areas using models

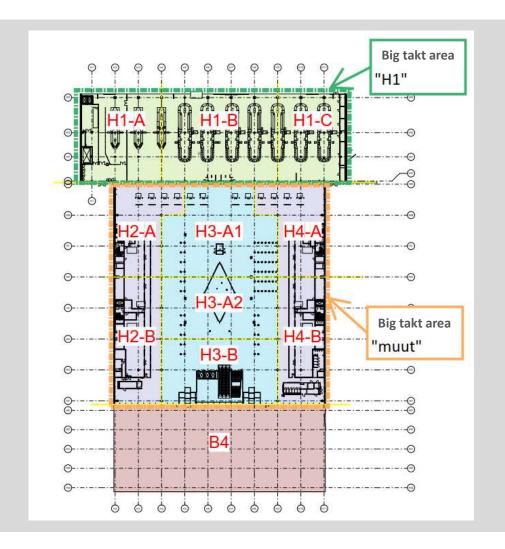
- Quantities from BIM a lot of information from models was utilized in scheduling and different analyzis, helping decision making
- Model data (Dalux, PowerBi, Simplebim, Solibri etc)

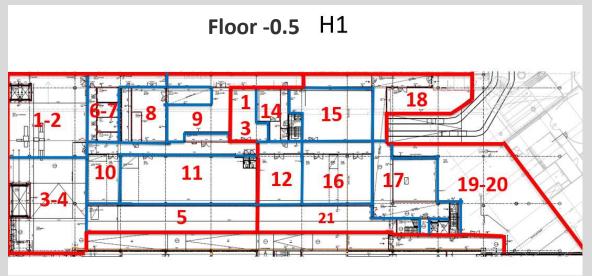




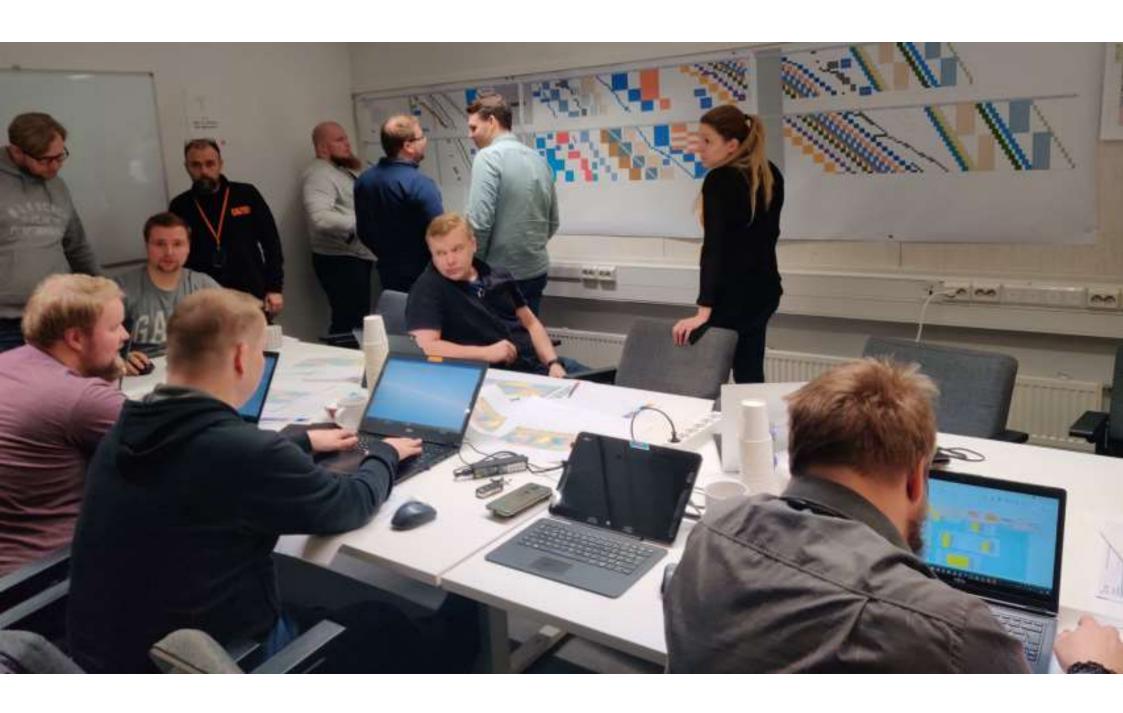




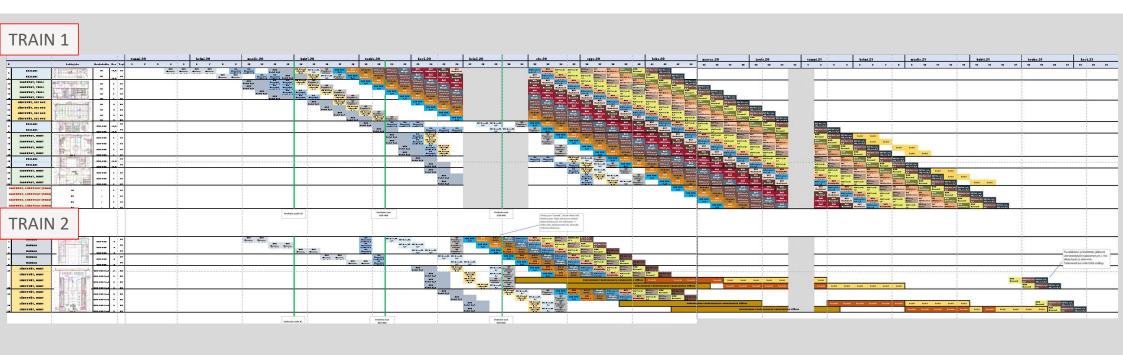








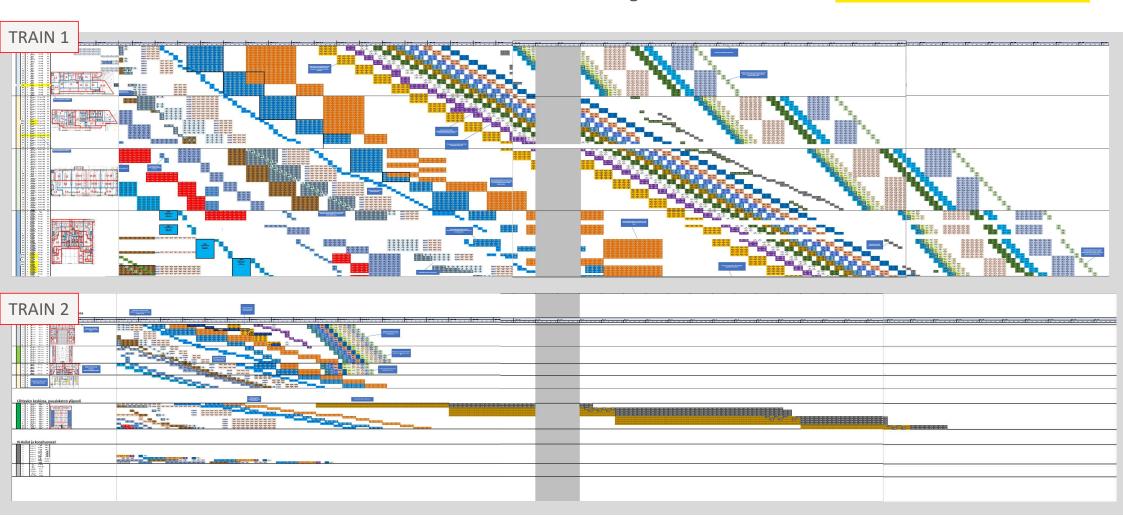
First version of takt - 1 week takt, big picture





Final takt schedule – 1 day takt

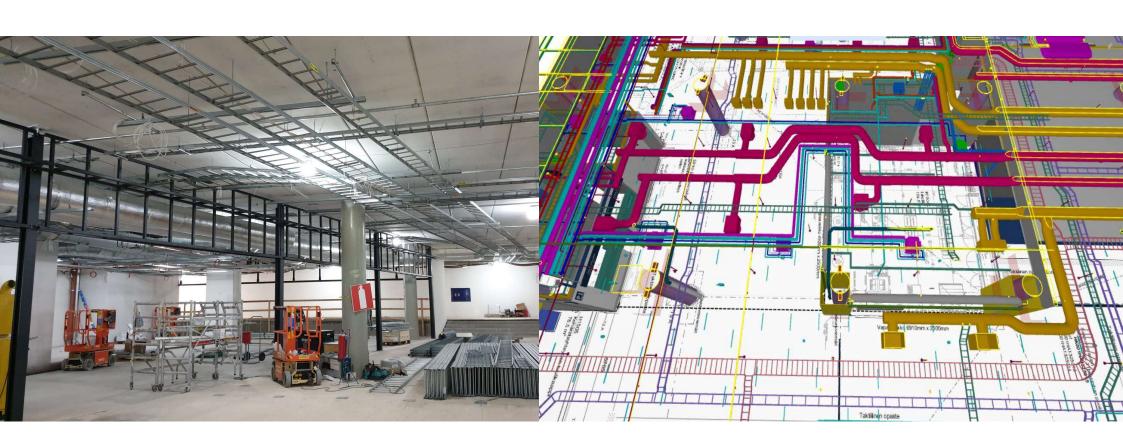
- 2 trains
- app 60 wagons
- app 250 takt areas



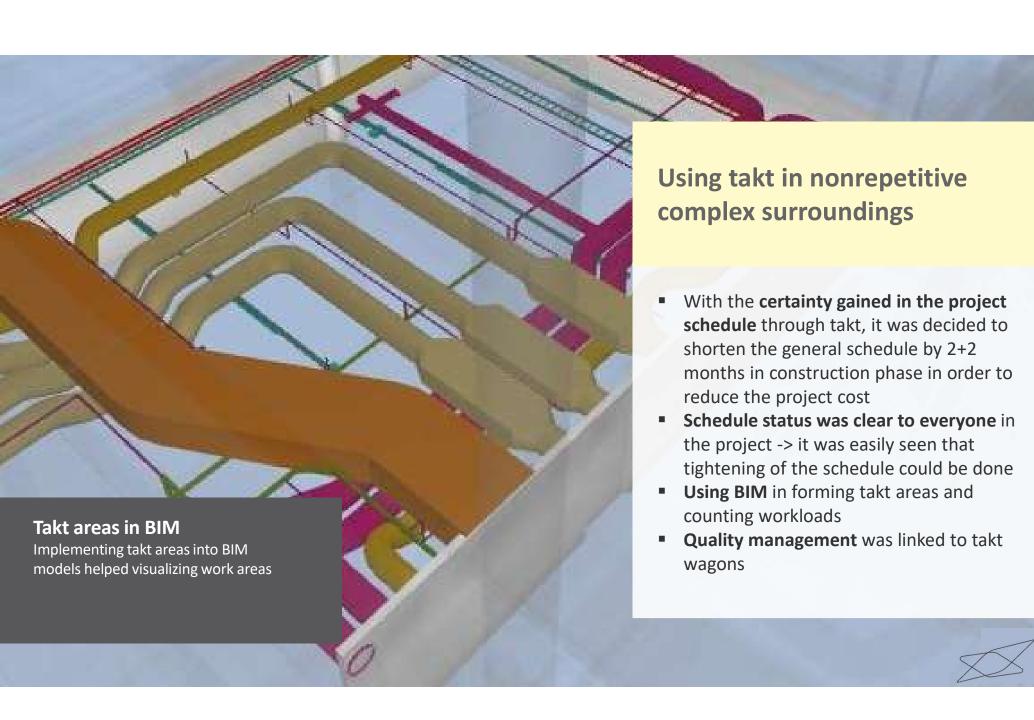


BIM at site

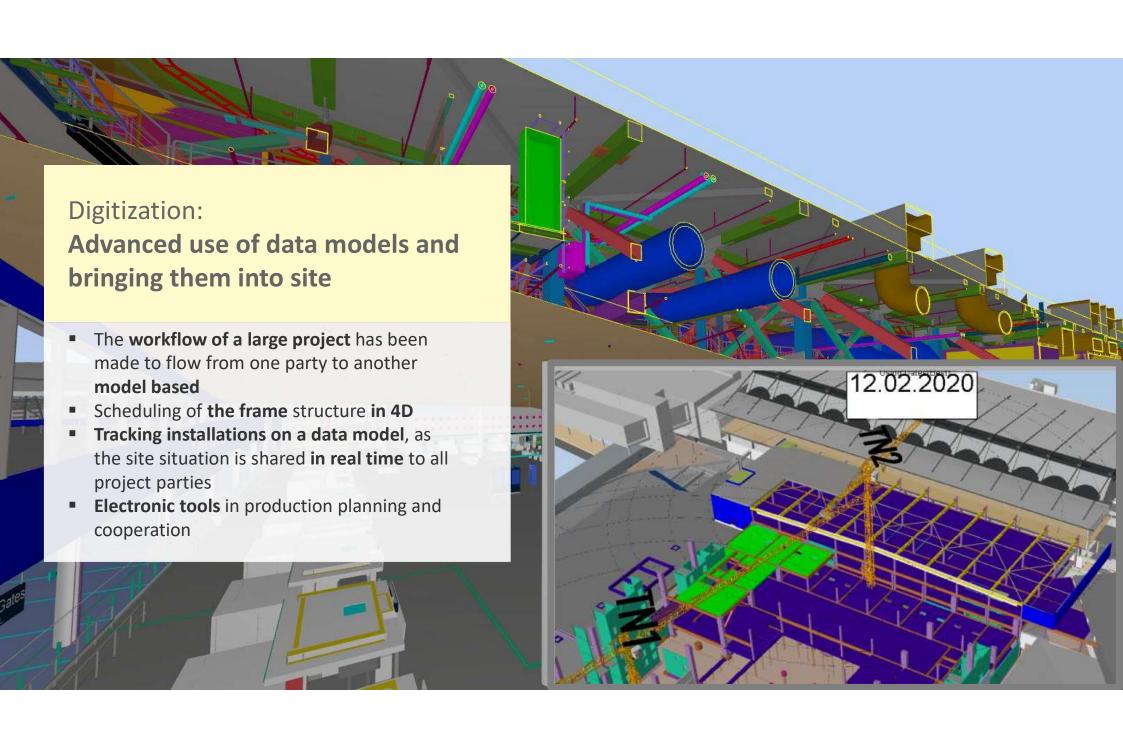
Easy to use, also views that combine 2D and 3D



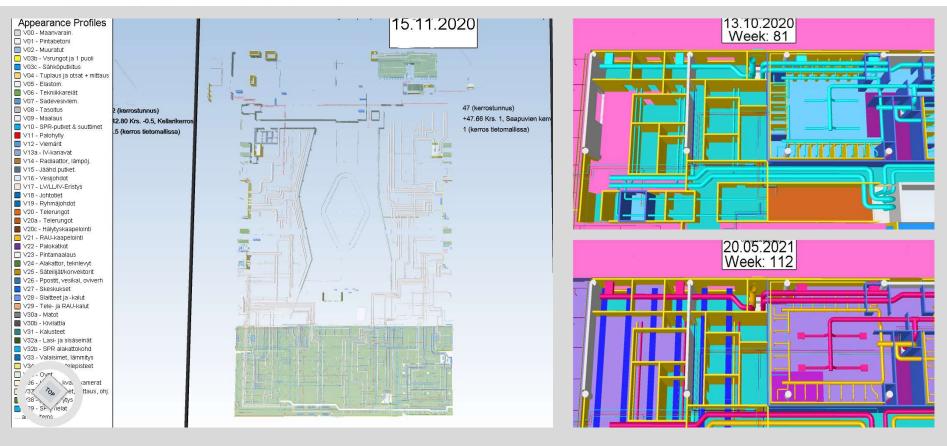




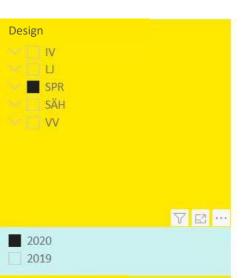
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4D, internal works and building systems works schedule







Location

H1

IVKH

KUILUT KUL

LÄMM

Valitse kaikki (lohko)

Distribution per big takt area (length)



19

Distribution	per	takt	area	(length)





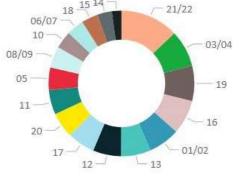
- H1



Distribution per takt area (number)

16 -

08/09



01_SRV Tunnus	05_SRV Lukumäärä		
SPR-haaraputket liitososat	980		
SPR-muut osat	4		
SPR-runkoputket liitososat	238		
SPR-suuttimet	407		
SPR-suuttimet alakatto	20		
Yhteensä	1649		

Takt areas and quantities information

Takt areas were entered into BIM which allowed to measure and compare quantities in different areas.



The future megaprojects?

We go towards digital building

- Data and digital technology are ways to improve productivity in the construction industry
- Using digitalization with takt gives the best benefits
- Earlier adaptation to takt improves benefits

-> Let's invest in it

