

Vuosaari Harbour construction 2003 - 2008



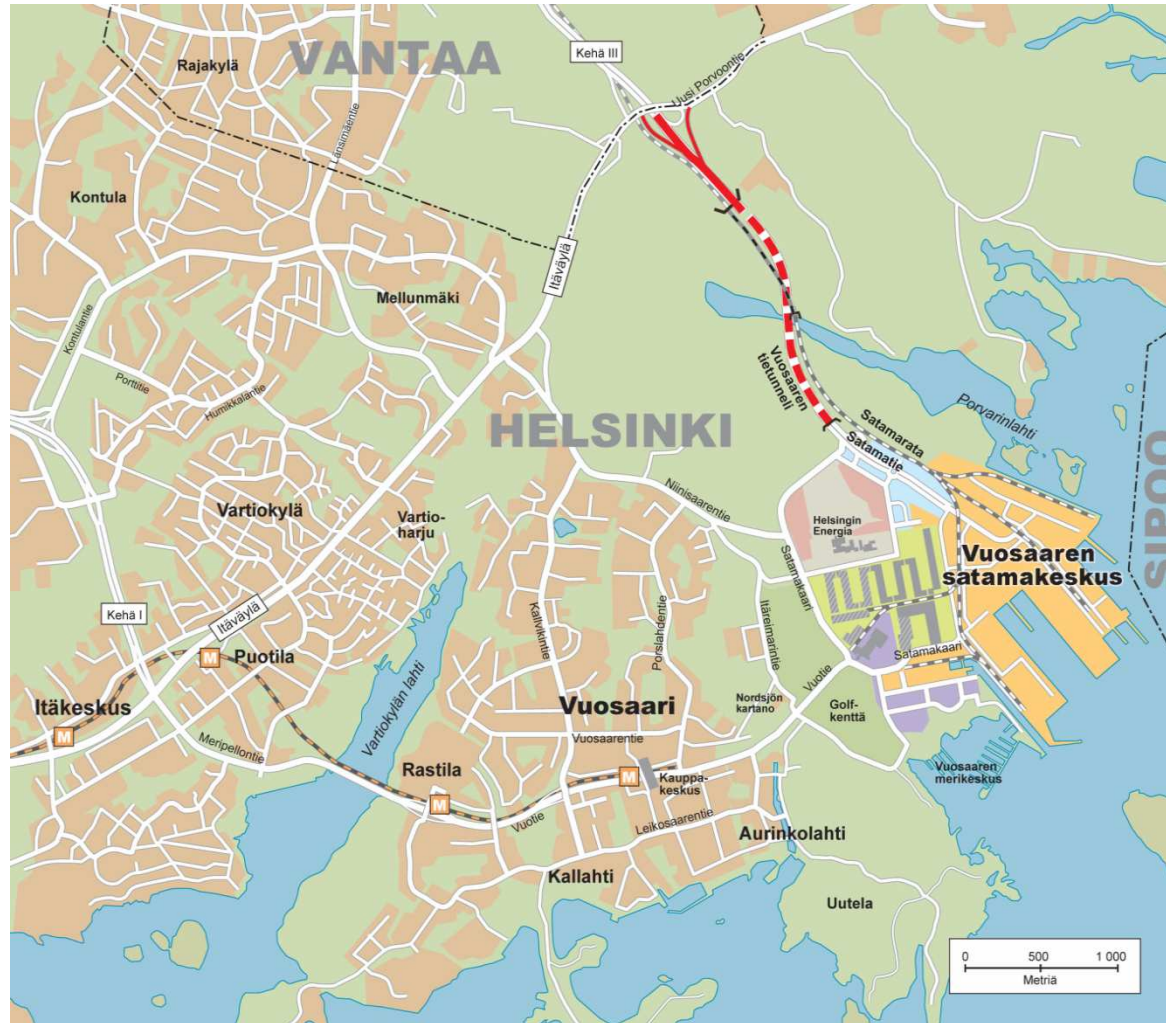
Cargo Harbours moved to Vuosaari in 2008



Starting Situation in 2002



Vuosaari District



Project organisation



Costs 1100 milj.€

Port of Helsinki 400 M€

Traffic infrastructure 300 M€

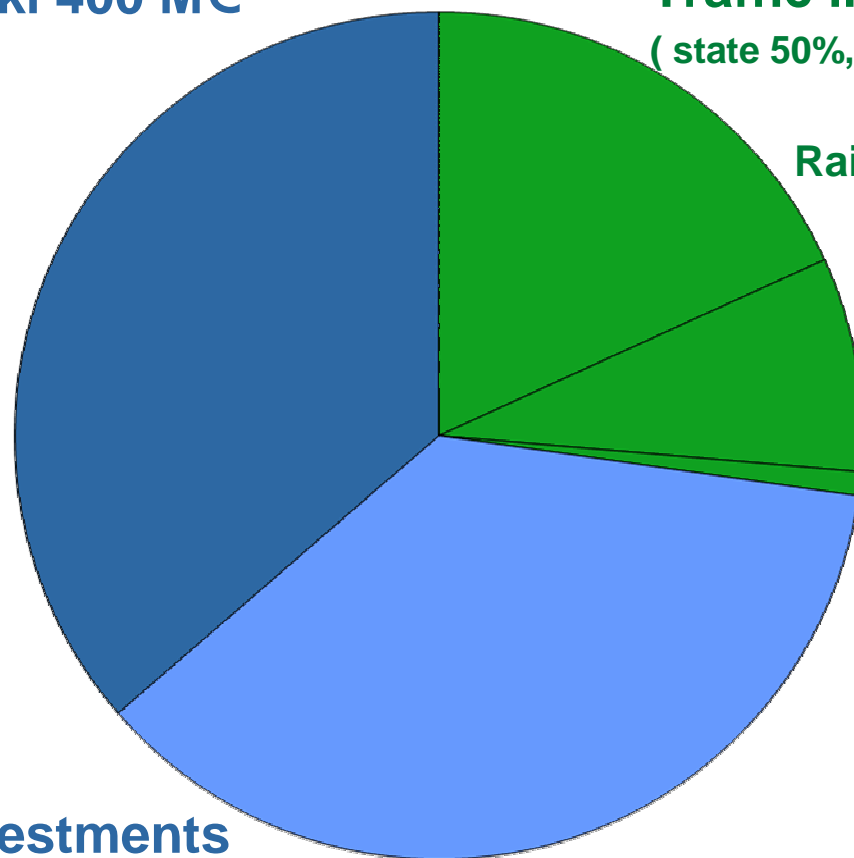
(state 50%, Port of Helsinki 50%)

Railway 200 M€

Road 90 M€

Sea channel 10 M€

Private investments
400 M€



Work amounts in Vuosaari Harbour Centre (without traffic services)

1.

• Harbour centre area	240 hectares
• Filled sea area	90 hectares
• Logistics area	60 hectares
• Contracts (Port of Helsinki)	97 pcs
• Contaminated material inland	150,000 m ³
• taken into final repository in Melumäki	127,000 m ³
• Stabilized TBT sediment	400,000 m ³
• Rock excavation	1,500,000 m ³
• Filling altogether	12,000,000 m ³
• of which marine sand approx.	7,000,000 m ³
• Crushed rock material in harbour structures	5,000,000 tonnes

Work amounts in Vuosaari Harbour Centre (without traffic services)

2.

• Asphalt coating	450,000 tonnes/ 150,000 ha
• Public utility wells	3,000 pcs
• Cable protection piping	800 km
• Optical fibre network, cable length	45 km
• Copper network, cable length	30 km
• Reinforced concrete	140,000 m ³
• Cement (stabilized)	80,000 tonnes
• Light masts	- 76 pcs (40m) - 30 pcs (30m)
• Spotlights	850 pcs

Removal of Tributyltin (TBT) in Seabed (2005)



2003



2004



2005



2006



2007 March



2007 November



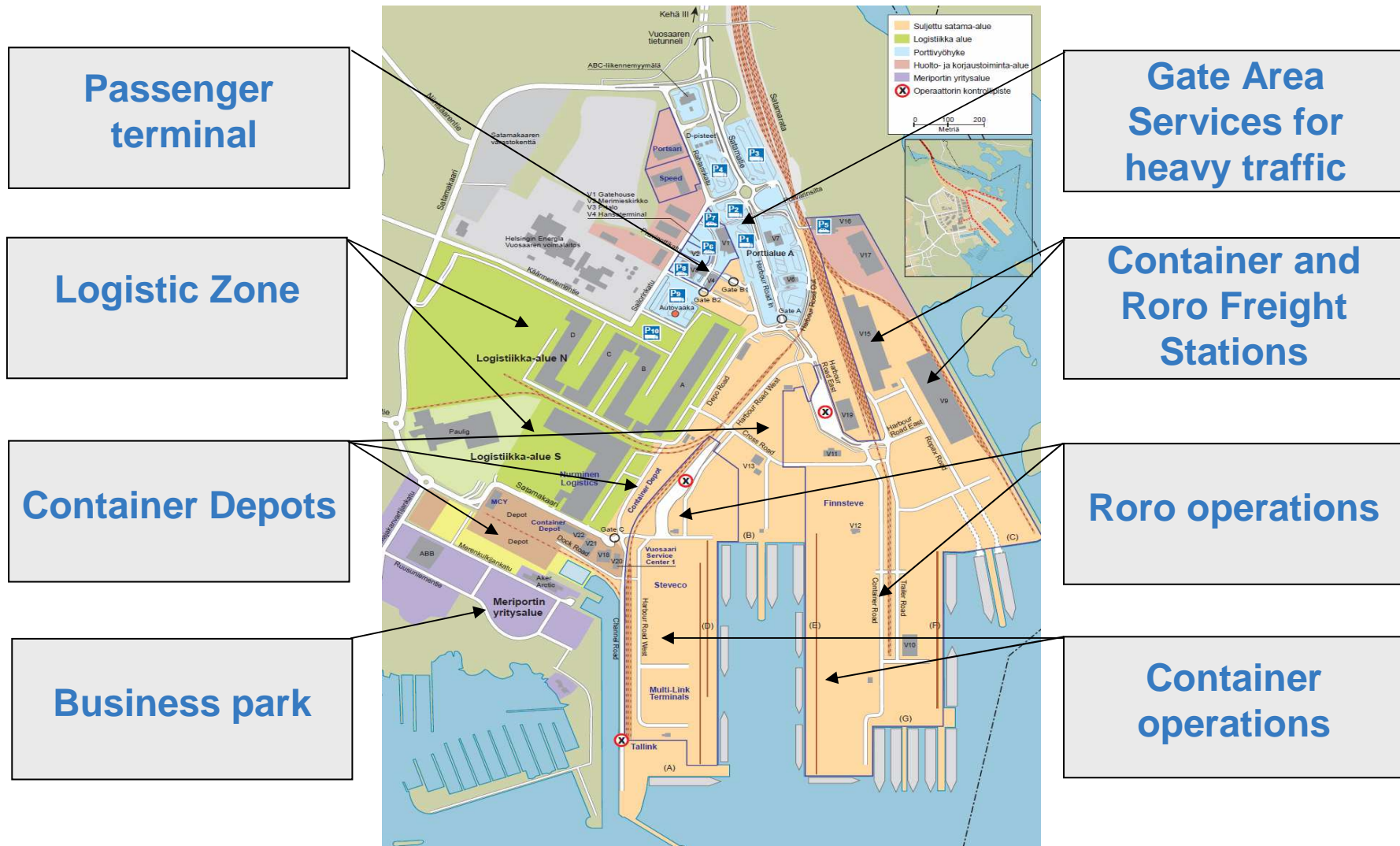
2008 October



2008 November

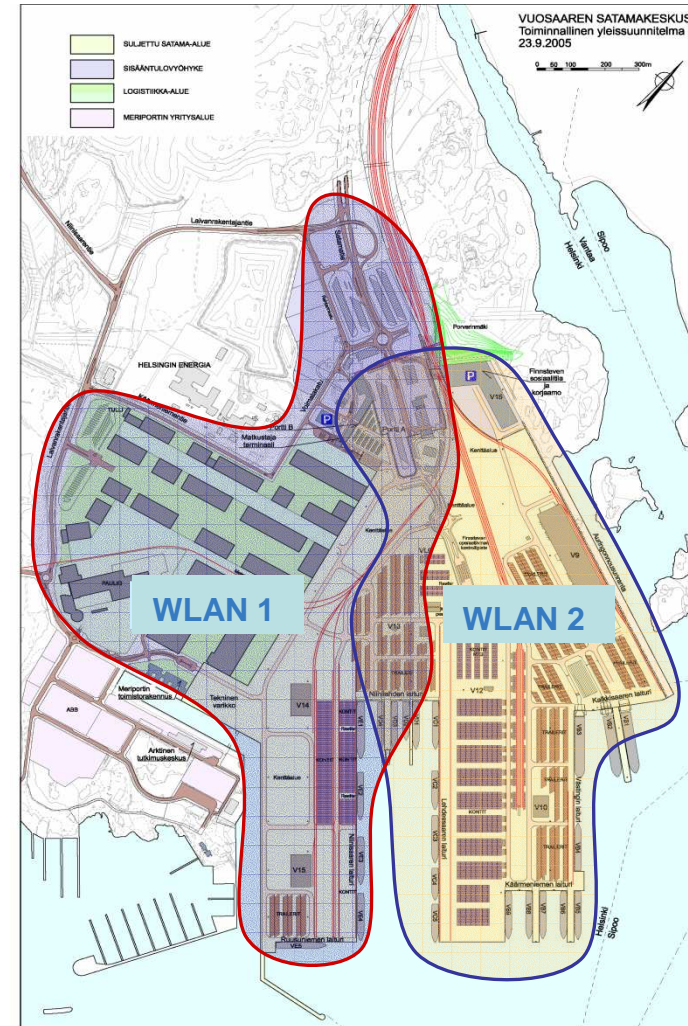


General arrangements



ICT infrastructure of the Harbour Centre

- Fibre and copper cabling covering in entire harbour area
- Wireless data network to be used by stevedoring equipment
- Camera system for security and operational monitoring
- Weatherstation
- Radiation control operated by customs



Environmental aspects

- Noise preventing
- Basin for leaking containers
- Closable rain water drains and odour elimination plant
- Sewage connections in each berths
- Facilities for connecting vessels to land power system
- Road and railway tunnels
- Illumination with minimal scattered luminance
- Environmental Monitoring:
 - monitoring surface and groundwater
 - monitoring waterways and fish
 - monitoring bird life
 - monitoring plant life
- High quality architecture
- Cleaning of former shipyard area



Harbour by Night

