



PORI PILOT SITE KESKUSAUKIO – CENTRAL SQUARE





Co-funded by the European Union



Central Baltic Programme



catchment area,

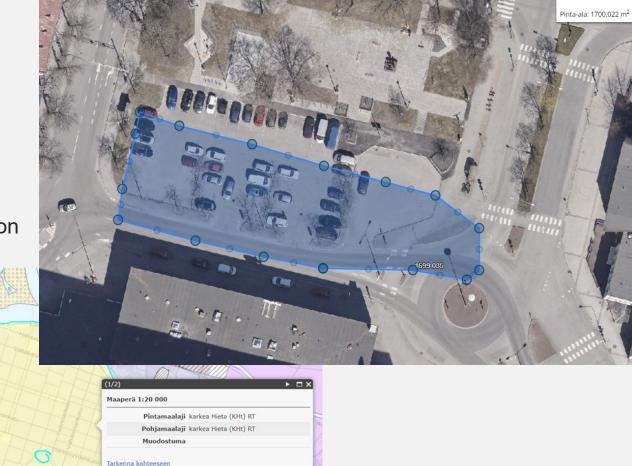
1700 m²

Landuse:

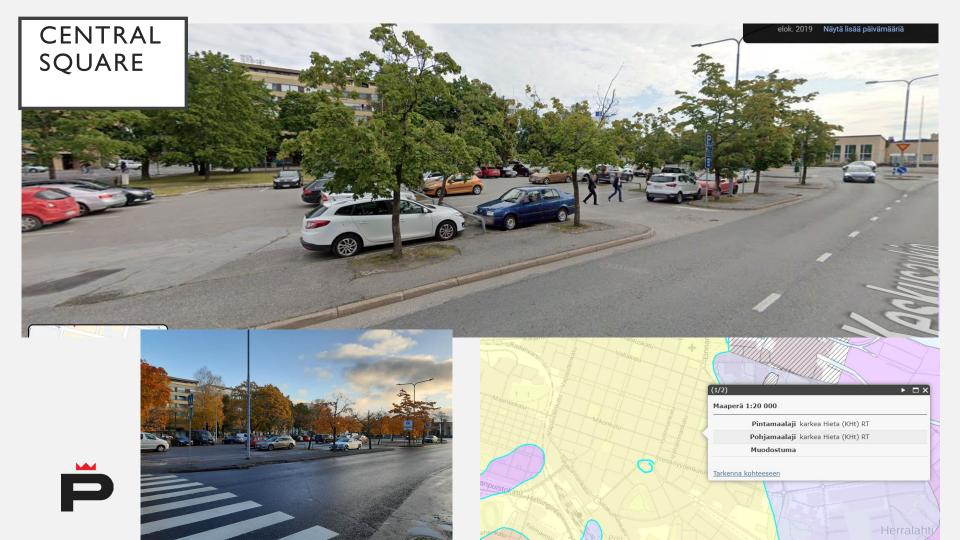
Urban 100 %

Soiltype:

fine sand, infiltration possible





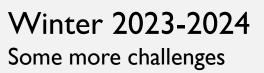


CHALLENGES

- Dense city area,
- Little space for ordinary NBS-structures.
- Create a model; How to build greener streets in Pori
- Storm water pipe network is full of water when it's raining heavily, that's why detention and infiltration is needed
- How to measure the amount and quality of storm waters that flows to storm water pipe network

- In parking place we are trying to save as many parking places as possible
- How to guide pedestrians to legal routes
- District heating line melts snow and ice at wintertime, how to guide these waters so that those will not block the structure
- How to protect trees from colliding cars and snowplows
- Which trees can handle substances from street waters
- Trees should stand dry seasons and flooding
- Winter time snow-water-ice-snow waterice

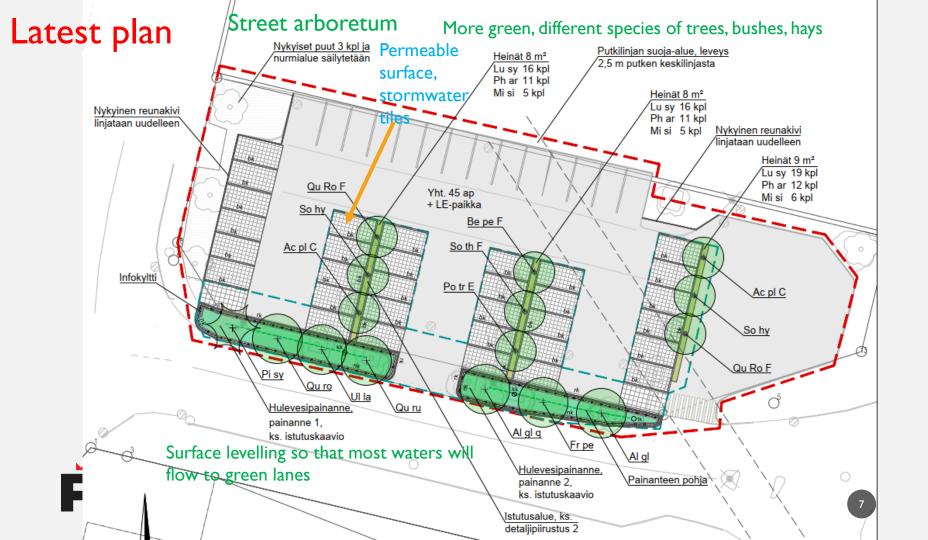






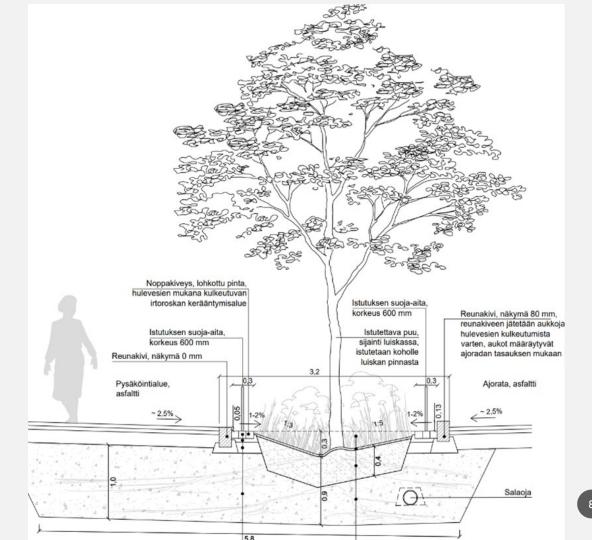
>ice-water



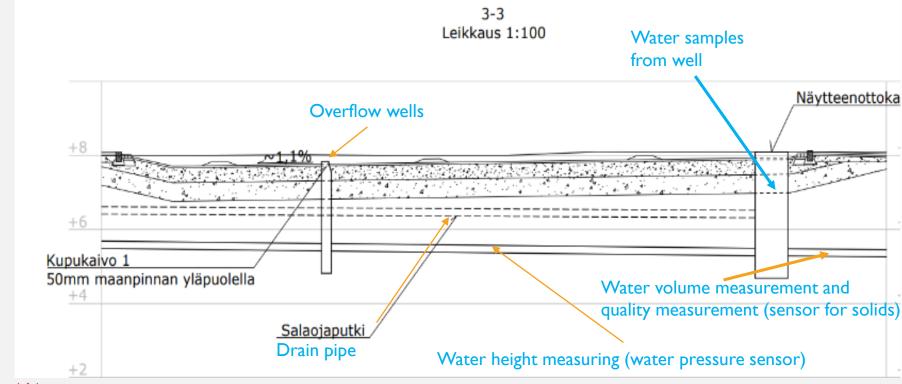


Cross section of green area where storm waters are filtrated through gravel and sand layers

Some water is infiltrated to base soil and overflowing waters will flow to storm water pipe network

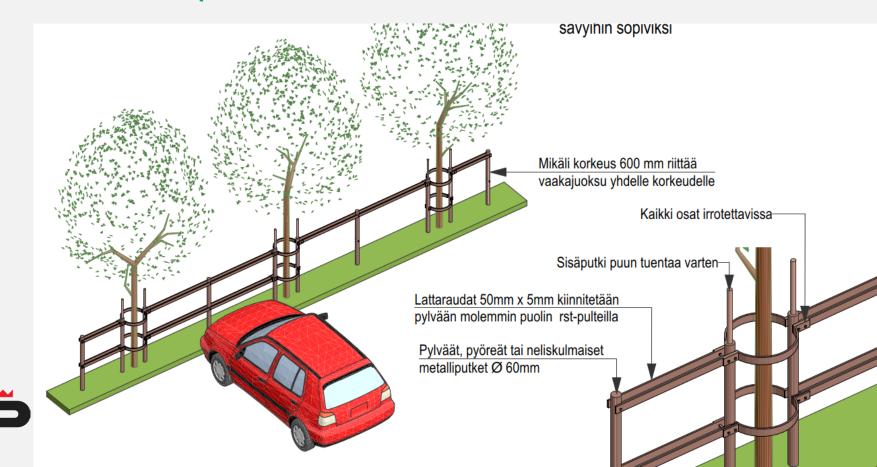


How to monitor and prove our methods are working





Trees should be protected



NEXT

- Plans will be finalised by mid-march
- Procurement documents should be ready by the end of March
- Call for tenders phase lasts about one month
- At the beginning of may Contractor is chosen and construction contract is signed
- Construction period is from June to August.
- Measurement devices are being placed during the construction.
- Monitoring begins...



TARGET REDUCTIONS FOR EMISSIONS

Suspended solids 60% - measured

Total nitrogen 30% - measured

Hydrocarbons (oil products) 50%- calculated, assumed based on correlation with suspended solids

Metals 40% - calculated, assumed based on correlation with suspended solids

Thank you!



