

Circular economy in Hartaanselänranta, Oulu, Finland

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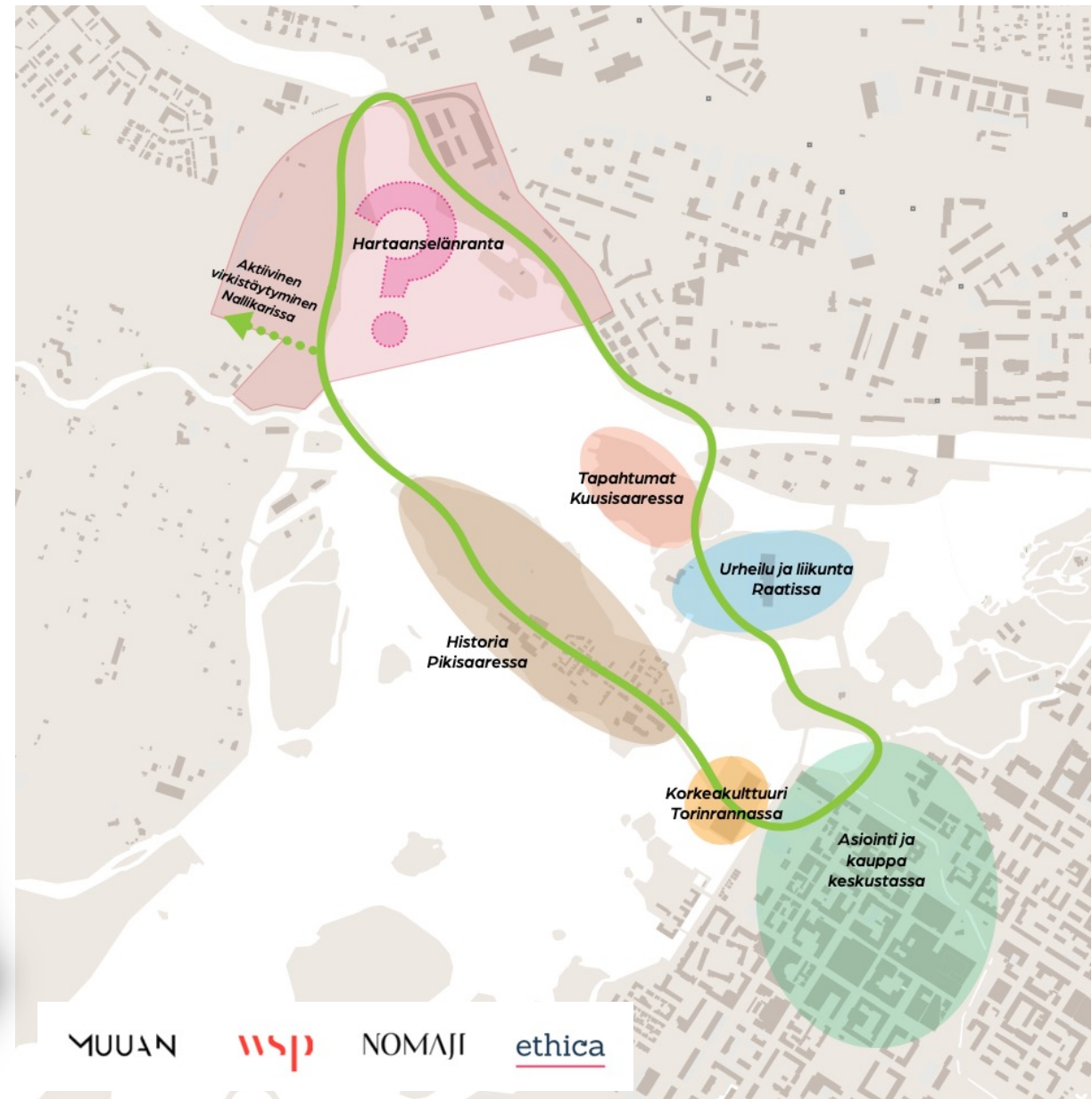
Hartaanselänranta general plan starting points

Oulu is a growing, middle-sized city of about 200 000 inhabitants in northern Finland.

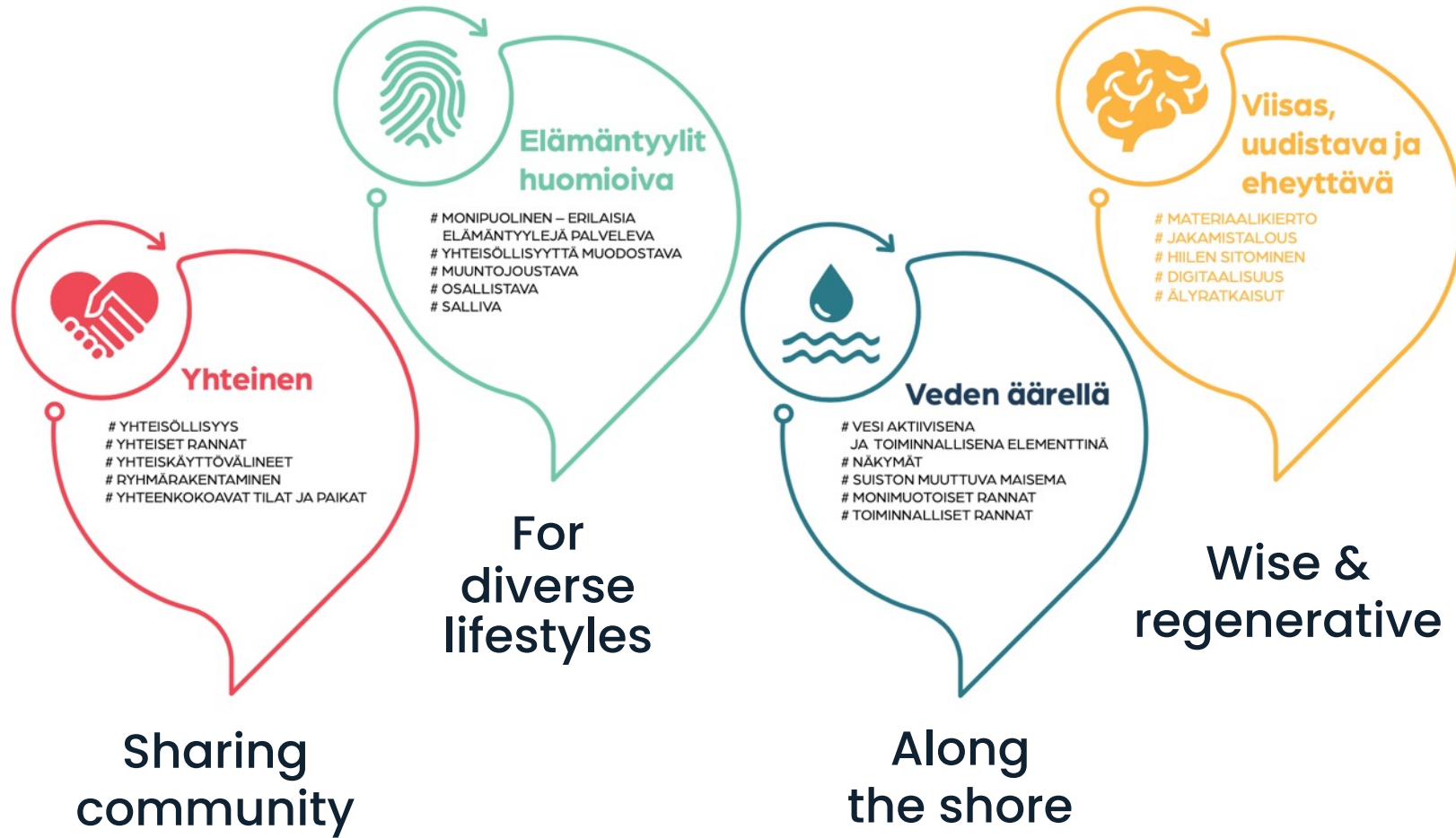
Hartaanselänranta is situated on the shores of Oulujoki river delta, just 2 km North from town center.

An urban planning competition was arranged for the Hartaanselänranta area in 2019, that was won by a team of Muuan, WSP, Nomaji and Ethica.

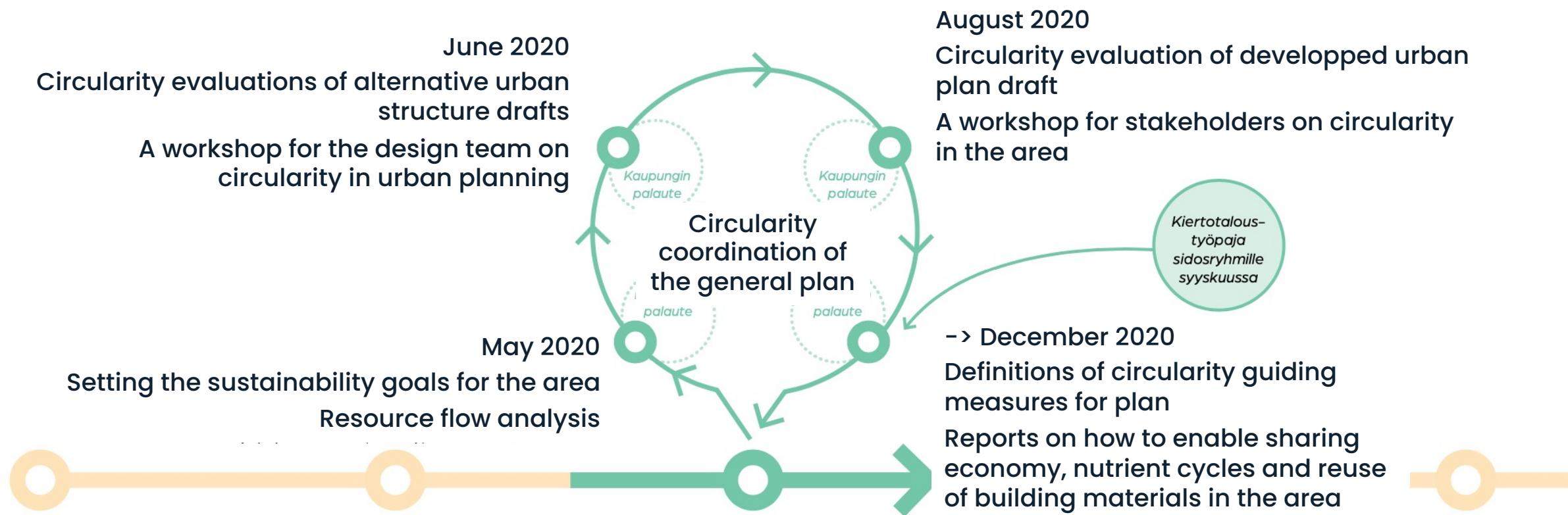
The site is planned to host a housing fair in 2025.



Themes of the urban plan



Process of planning for circularity



Resource flow analysis

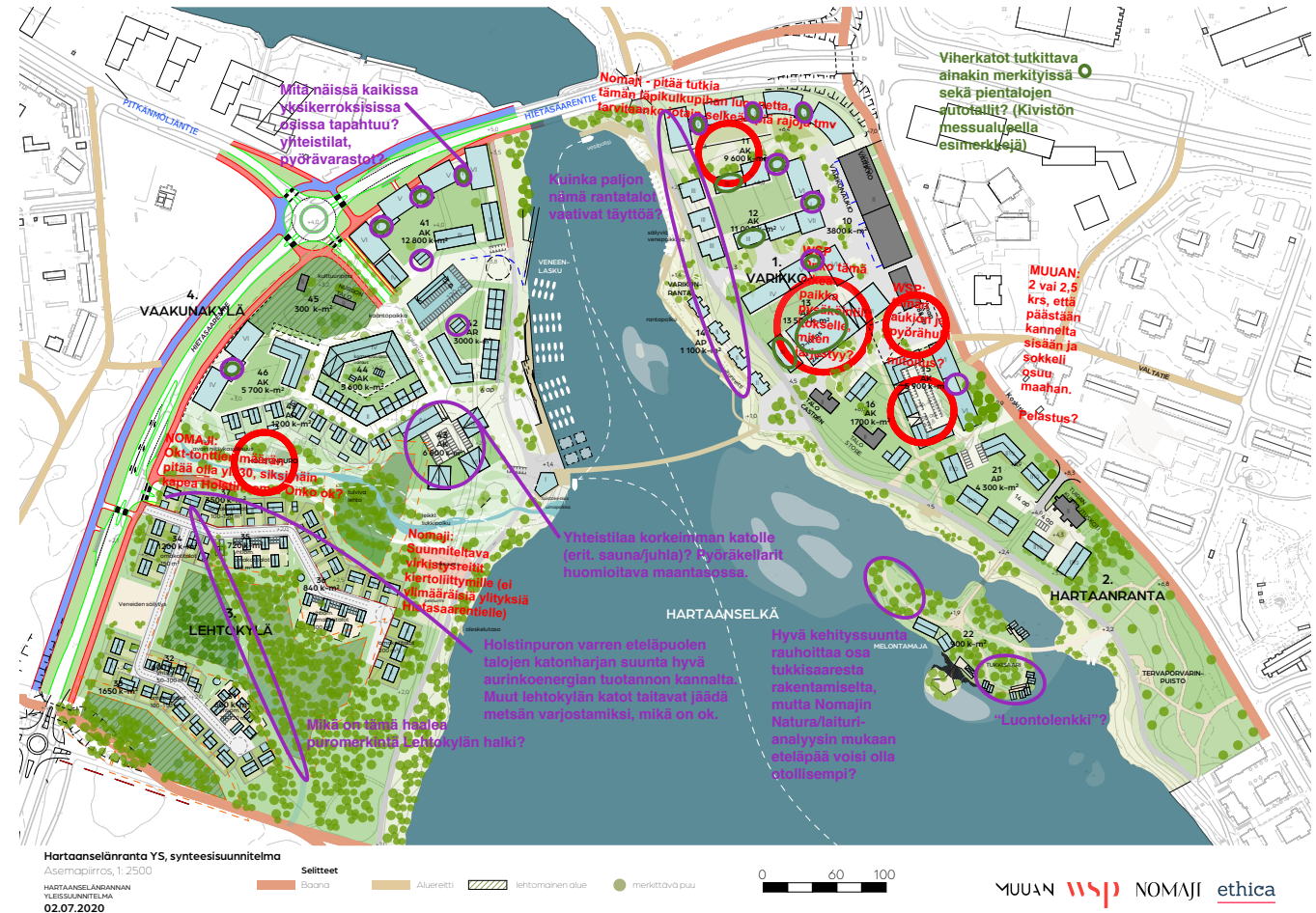
Heating and electricity

Recycling in the area

Benchmark: circularity center Minimossen in Vaasa



Comment rounds on circularity features of the plan



Study on reusing building materials

Reusing bricks in Oulu: Case Toppilan mylly



Local resource: Sunken logs



Kuitupuu

Kuva: Ahti Sipola



Existing built environment

Löytyykö alueellisia vahvuuksia vanhoista rakennuksista – mitä ne ovat?



UUSIUTUVUUS: Resurssien kuluttamisen ohella myös tuotetaan resursseja

regeneration

TEHOKKUUS: Rakentaminen ja alueen toiminnot järjestetään resurssiviisaasti

efficiency

KIERTOJEN RAKENTAMINEN: Materiaali kierrot sulkeutuvat alueella tai sen ulkopuolella

closing the loops

ÄLYKKÄÄT RATKAISUT JA PALVELUT: Tukevat kestäviä elämäntapoja ja toimintaa alueella

intelligent services

Mapping circular features in the plan

Key take aways:

- Circularity is often realized through rather small innovations. The main role of planning and city officials can be to make the application of these possible.
- Some examples where this was successful in Hartaanselänranta:
 - low tech solutions like local composts for organic waste
 - reuse of building parts and materials from all around the Oulu municipality
 - support for walkability, biking and mobility as a service

