

Adaptation to climate change in Tampere

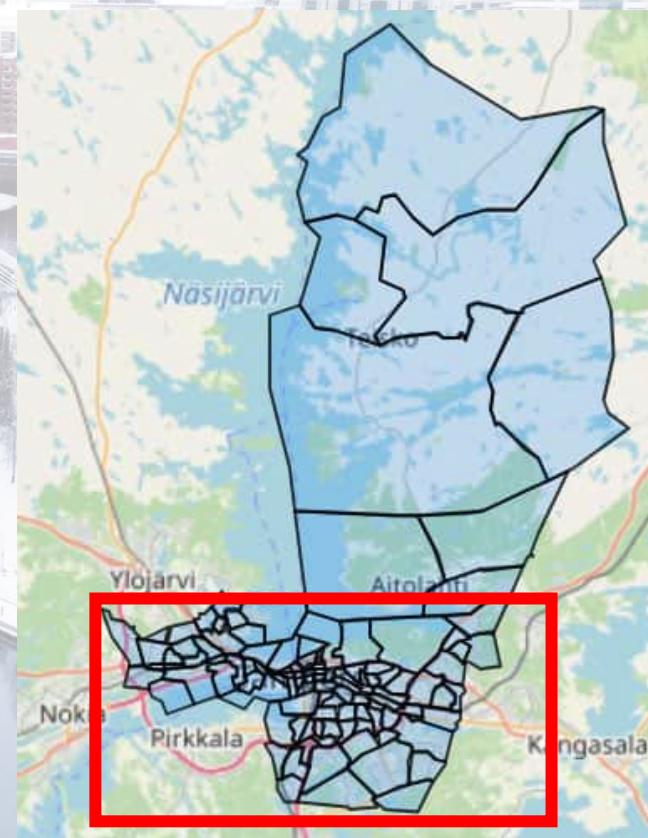
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Tampere



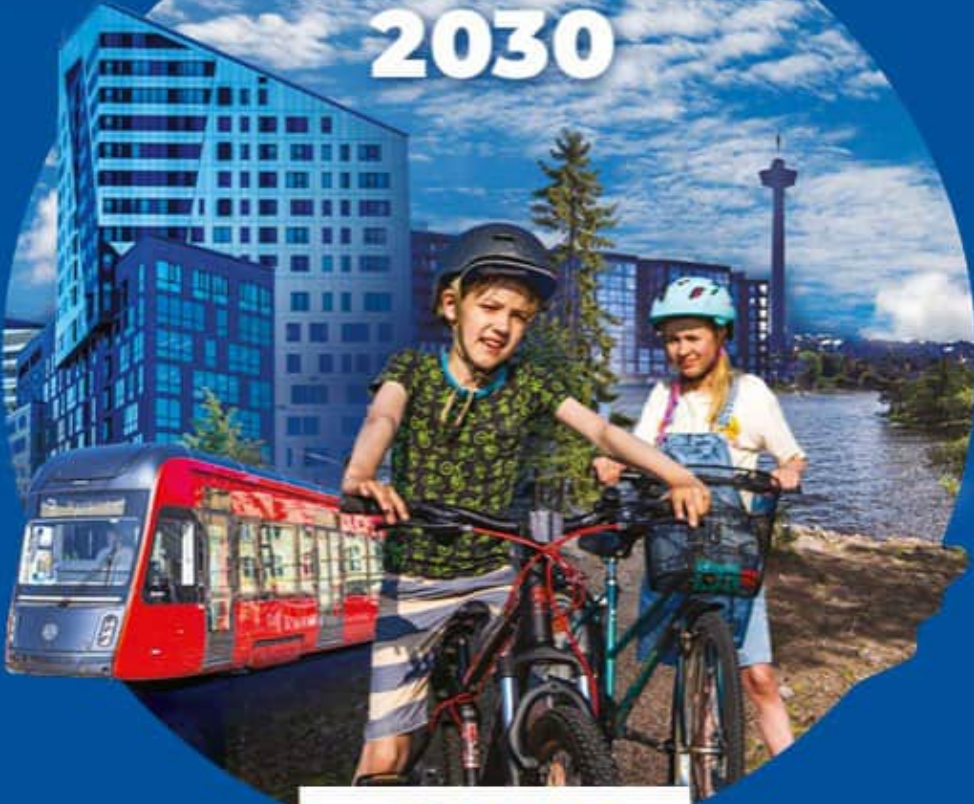
260,358 residents (2024)
291,300 residents by 2033



The most significant climate risks in Tampere

- Heavy rains (snow or water)
- **Stormwater floods**
- **Periods of heat and drought**
 - Heat island effect in certain built areas
- Storms
- Slippery conditions
- Invasive species, loss of biodiversity

CLIMATE NEUTRAL TAMPERE 2030



Tampere City Board 4 November 2024

The adaptation plan is in the Climate neutral Tampere 2030 Roadmap

- ~400 measures of which ~90 measures aim to climate adaptation
- Updated every second year
- Departments bring up the measures → engagement
- In addition, adaptation is integrated into other city processes such as
 - risk management process
 - annual plans of the departments

Climate and Environmental Watch Tampere

The Tampere Climate Watch brings together the city's climate measures in an easy-to-use service.

The purpose of the Climate Watch is to provide an up-to-date picture of the measures and help assess their impact.

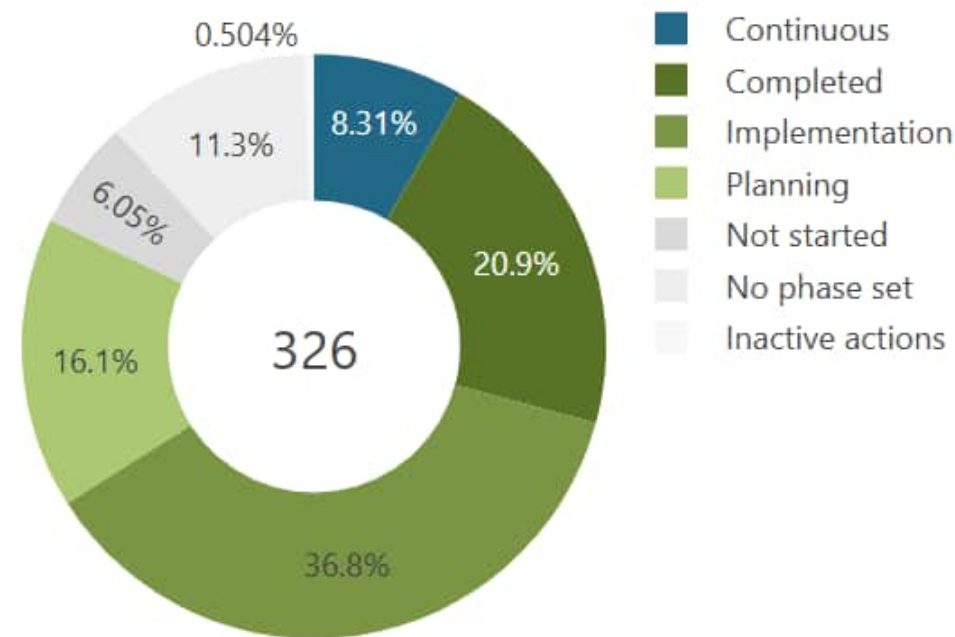
[Tampere's climate and environmental watch](https://ilmastovahti.tampere.fi/en/actions?cat-adaptation_mitigation_ce=6710)

See all adaptation measures with this filter:

https://ilmastovahti.tampere.fi/en/actions?cat-adaptation_mitigation_ce=6710

Actions by phases

Ongoing and completed actions



6.3.4.

Urban trees will be added

(H) (S)

6.3.3.

Green areas are added to the school yards of upper secondary schools by, for example, establishing meadows and planting ...

(S)

6.2.1.

Continuous

Forests' ability to adapt to climate change will be strengthened by diversifying the species and age structure of trees

(S)

1.4.6.

Planning (On time)

Yard and garden plans in detailed plans concerning vulnerable people

(S)

0.1.5.

Implementation (On time)

Residents' participation and opportunities to influence things in the themes of climate change mitigation and adaptation...

(H) (S)

1.4.5.

Planning (On time)

Defining the principles of securing the blue-green infrastructure in the growth and vitality zone

(S)

1.4.3.

Planning (On time)

Increasing and development of blue-green infrastructure in city green development areas

(H) (S)

1.1.7.

Solutions related to adaptation to climate change in local detailed plans

(S)

1.4.1.

Continuous

Cohesion of green areas

(H) (S)

More detailed adaptation measures on certain topics are e.g. in

- Stormwater Programme
- Biodiversity Programme
- Forest management plan
- the city centre master plan



NBS in public areas in Vuores



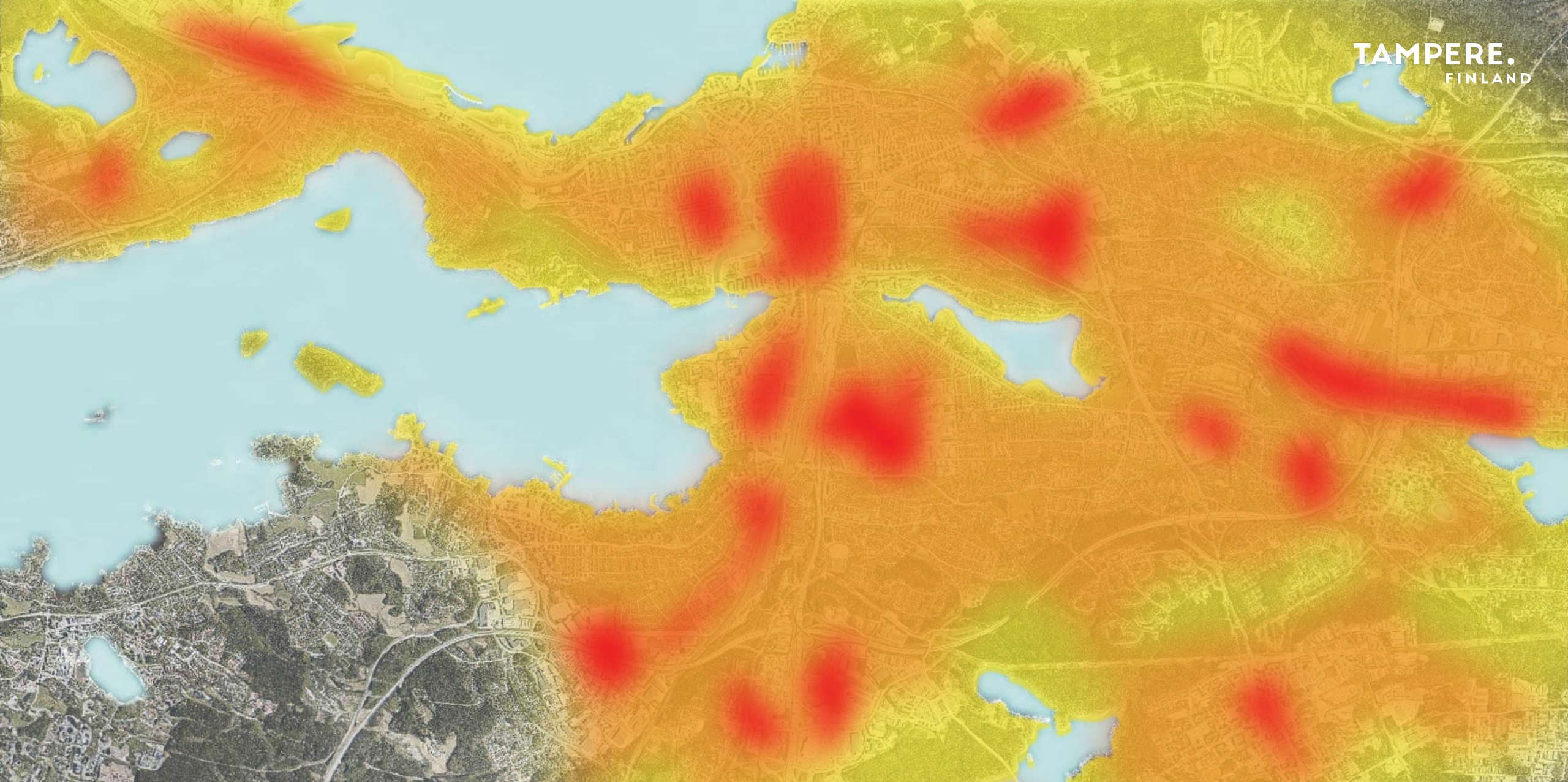
Green swales

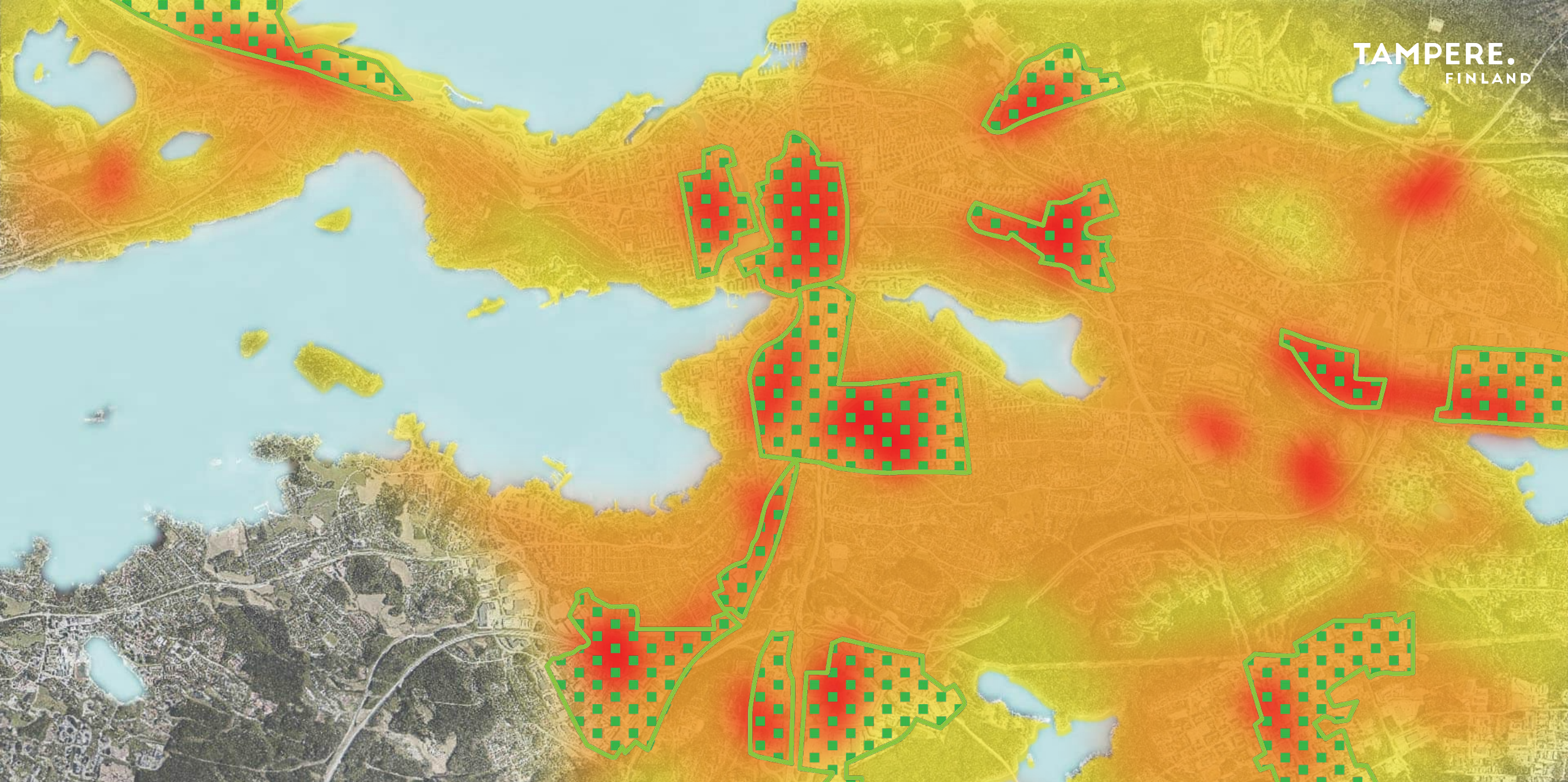


Detention basins



Wetlands





Urban green development areas to alleviate heat: more trees, more vegetation, better blue-green-infrastructure
(based on Phased comprehensive plan for the inner city of Tampere)

Vulnerability analysis

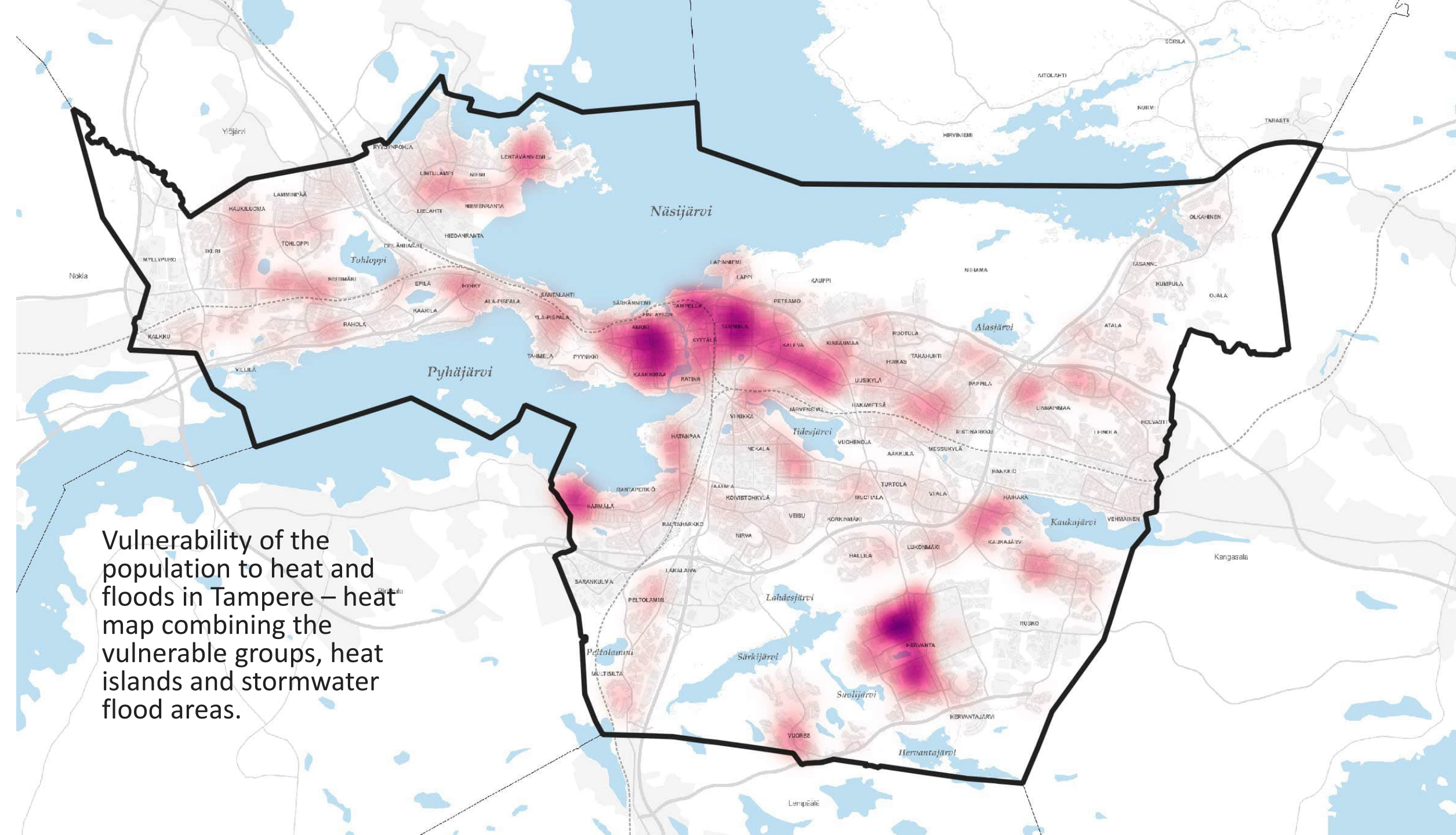
The aim of the work was

- to identify, which population groups, sectors of society and infrastructure are most vulnerable to risks of climate change
- What can we do to make vulnerable groups less vulnerable to climate risks and aim for more resilient city and in that way support the well-being of citizens



Photo: Visit Tampere

Vulnerability of the population to heat and floods in Tampere – heat map combining the vulnerable groups, heat islands and stormwater flood areas.



How we got here?

- **Cross-sectoral collaboration and being involved in international networks**
- **Early risk identification and strategic integration:** Climate risks were identified on regional level 2017 and integrated into key city strategies like the SECAP (Sustainable Energy and Climate Action Plan) and the Climate Neutral Tampere 2030 roadmap.
- **Political interest of political decisionmakers:** City council initiatives (e.g., extreme heat impacts on elderly care 2019) and integration into land use planning (e.g., general plan impact assessments) ensured political backing and institutional commitment.
- **Pilot projects and scenario planning** to test and refine adaptation measures, e.g. UNaLab-project (EU Horizon funded project with good investment money for piloting)

Thank you!

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Climate and environmental policy

City of Tampere

