

Smart & Clean
HELSINKI METROPOLITAN

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Solutions for 1,5°C World

Circvol Amsterdam-Helsinki
11 November 2020
Tiina Kähö
@tiinakaho

Smart & Clean is a world leading community building impactful climate solutions for systemic challenges.

New solutions in mobility, energy, housing and circular economy tackle climate crisis and provide new business opportunities for the companies involved.



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Four innovations:

1. PPP

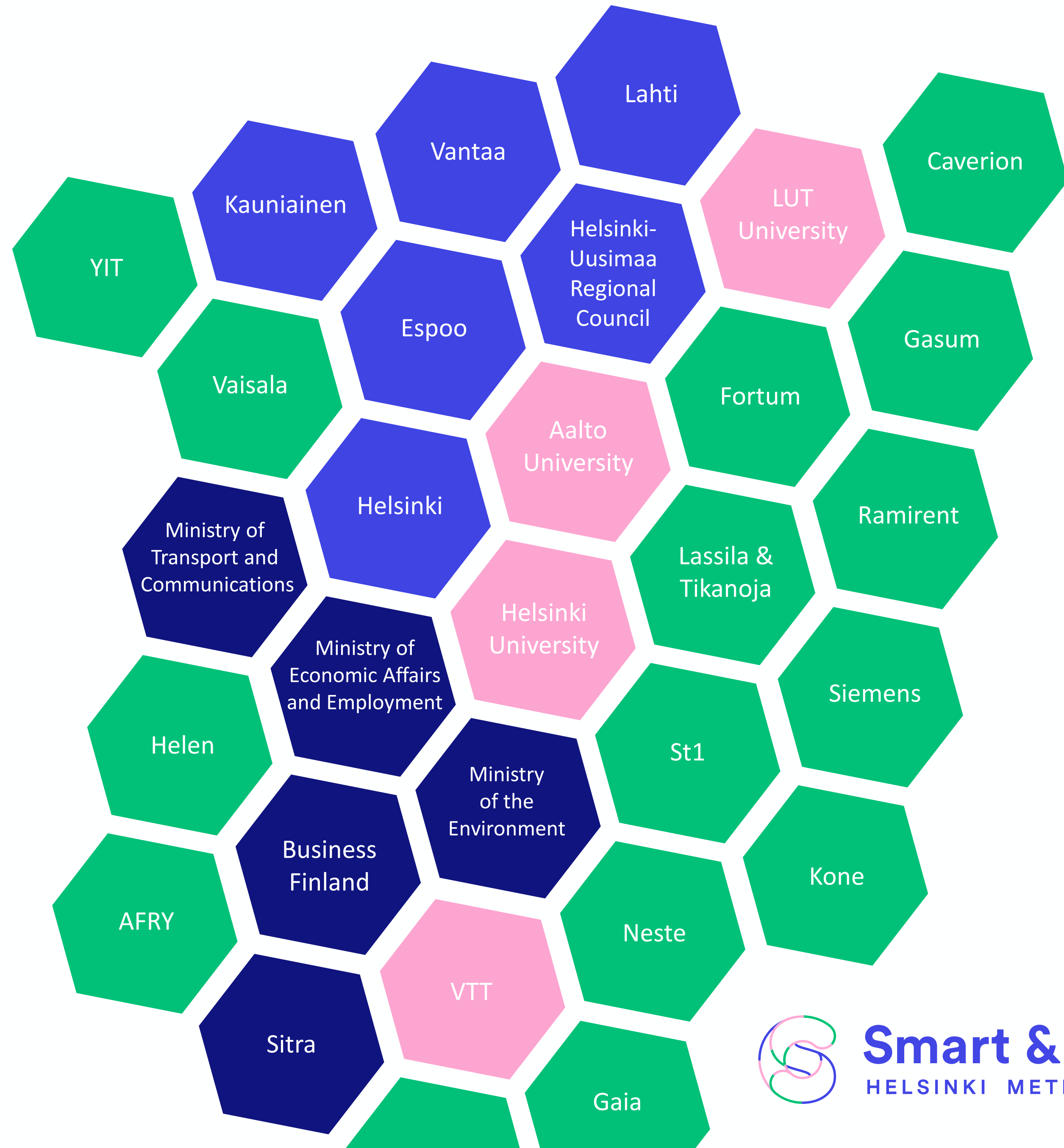
2. Orchestrator role

3. Impact driven approach

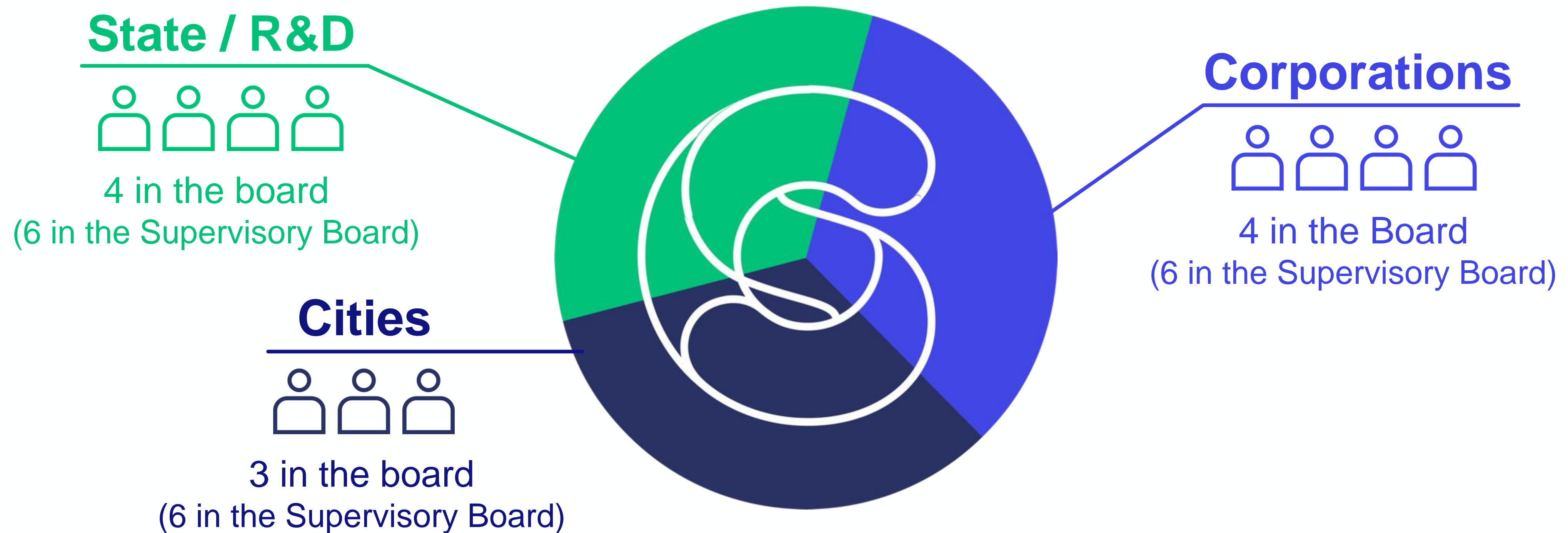
4. Model for systemic change



We are Smart & Clean.



Smart & Clean Foundation's Governance and Funding model



2016 Fixed term 5 years 2021

Significant changes with cooperation

Smart & Clean Foundation's Board



Pertti Korhonen
Chairman of the Board
Professional board member



Jukka Mäkelä
Vice Chairman of the Board
City of Espoo, Mayor



Minna Aila
Neste, Senior Vice President
Sustainability and Public Affairs



Nina Kopola
Business Finland,
Director General



Jussi Manninen
VTT Technical Research Centre of
Finland, Executive Vice President



Mari Pantsar
Sitra,
Director



Hannu Penttilä
City of Vantaa, Deputy Mayor,
Land use, Building and
Environmental Department



Kalle Saarimaa
Fortum, Vice President,
Recycling & Waste Solutions



Anni Sinnemäki
City of Helsinki, Deputy
Mayor, Urban Environment



Ville Tamminen
Caverion, Head of
Division Finland



Janne Öhman
Siemens Osakeyhtiö,
CEO



**IPCC'S 1,5°C TARGET
CHALLENGED OUR
CLIMATE CHANGE
ACTIONS COMPLETELY.**



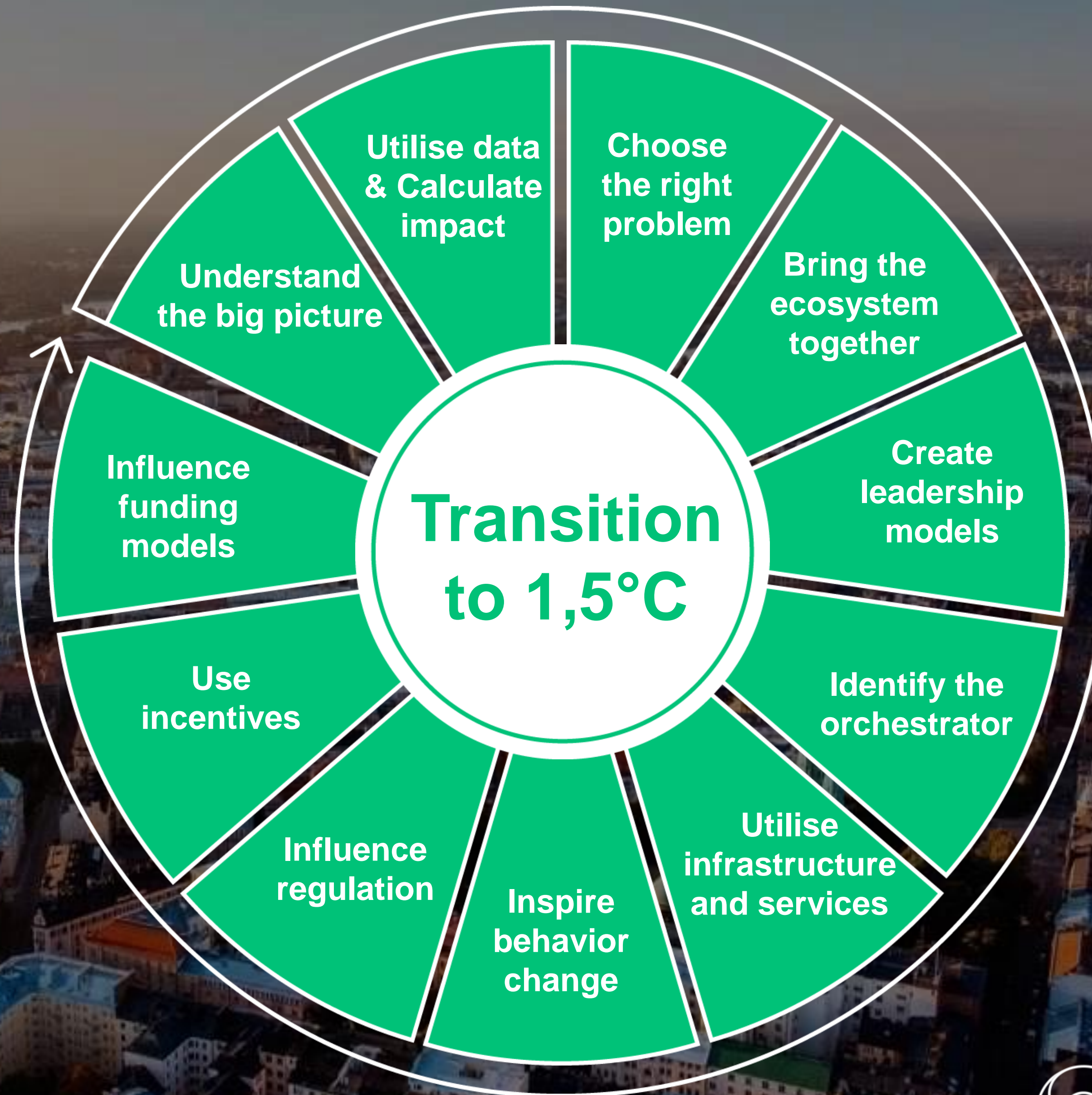
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**THE STRUCTURES OF TODAY
WILL BECOME WORTHLESS
IN 10 YEARS.**

**THEY ARE STRANDED
ASSETS THAT LOSE
VALUE EVERY DAY.**

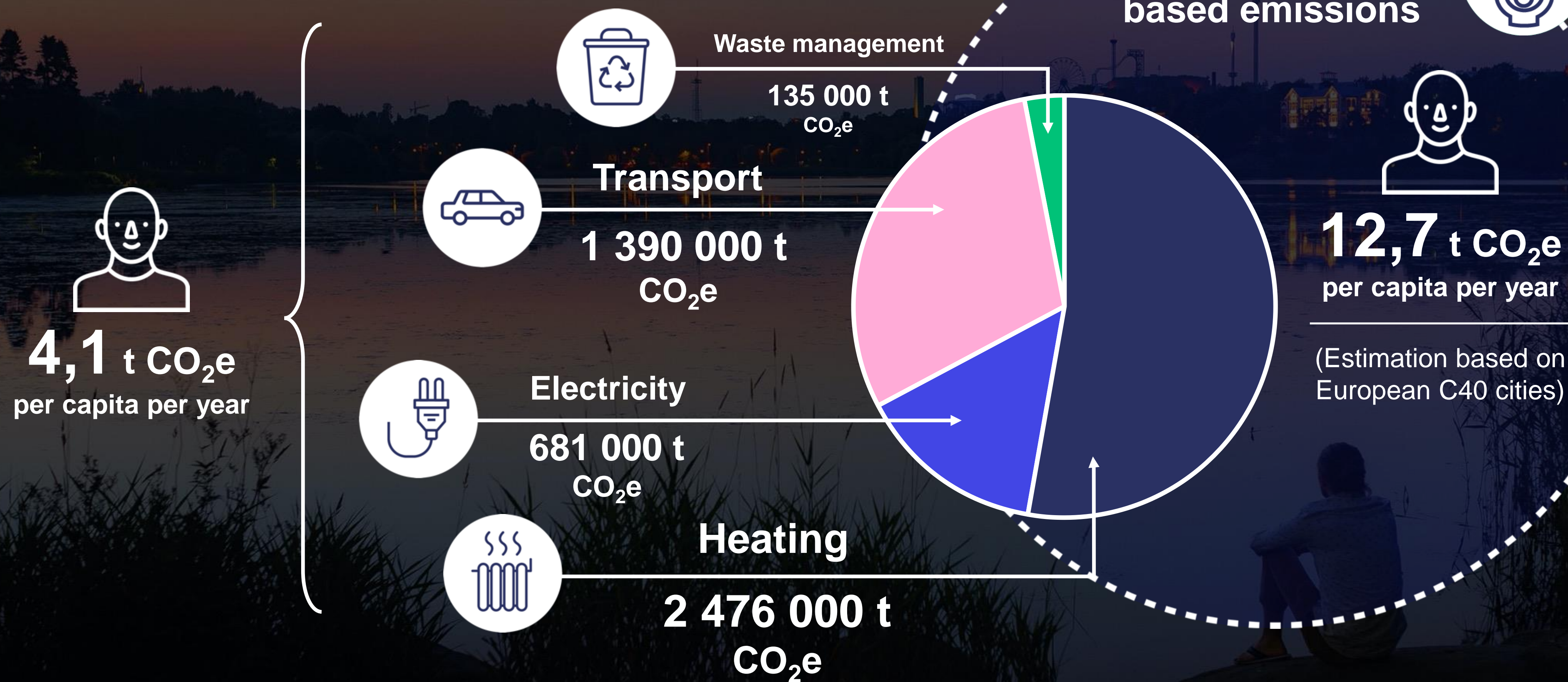
**THIS IS THE BIGGEST
OPPORTUNITY
THAT HAS EVER EMERGED.**

Tools for building impact-driven climate solutions

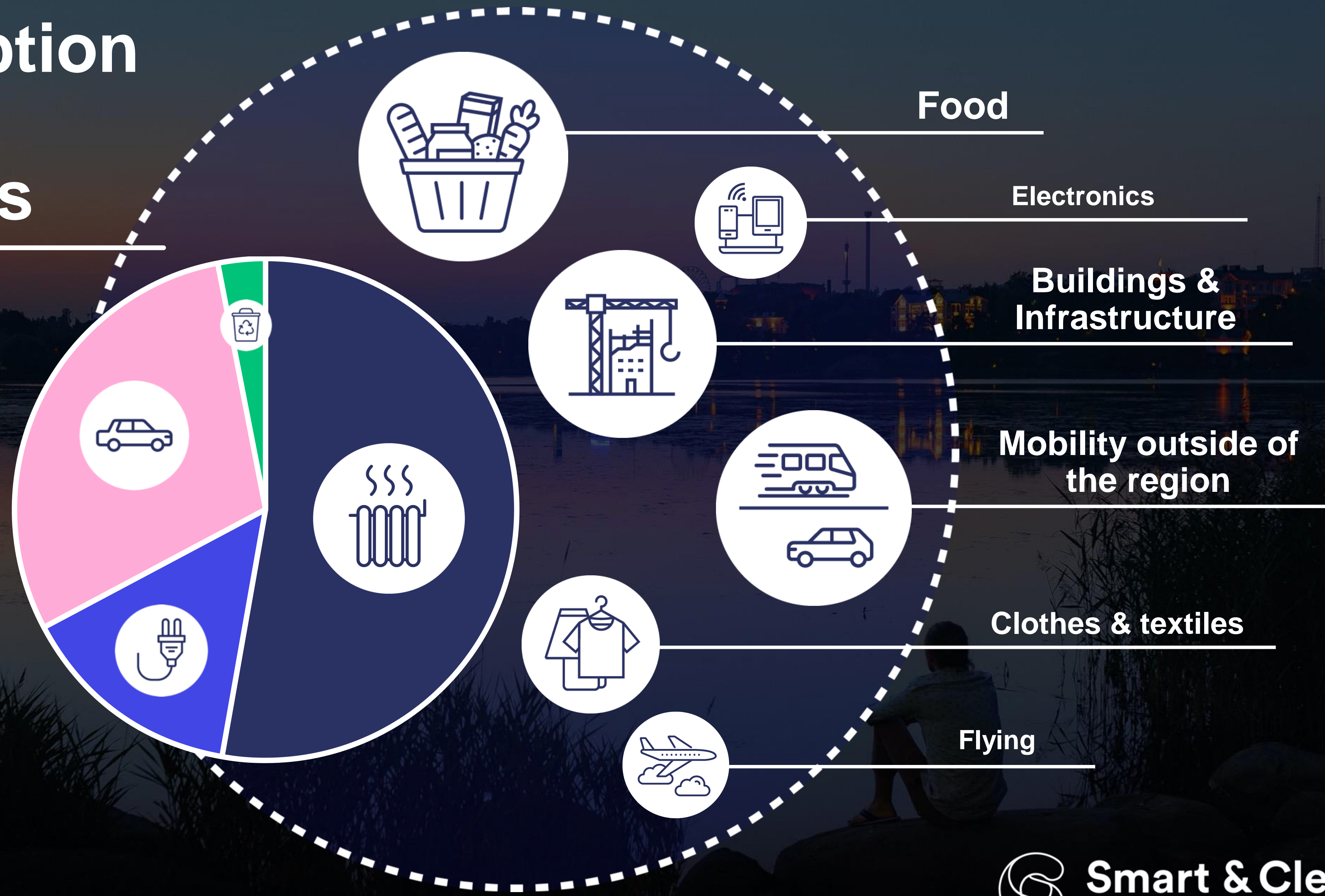


1. Understanding the big picture

CO₂ emissions in the Helsinki Metropolitan region



Consumption based emissions

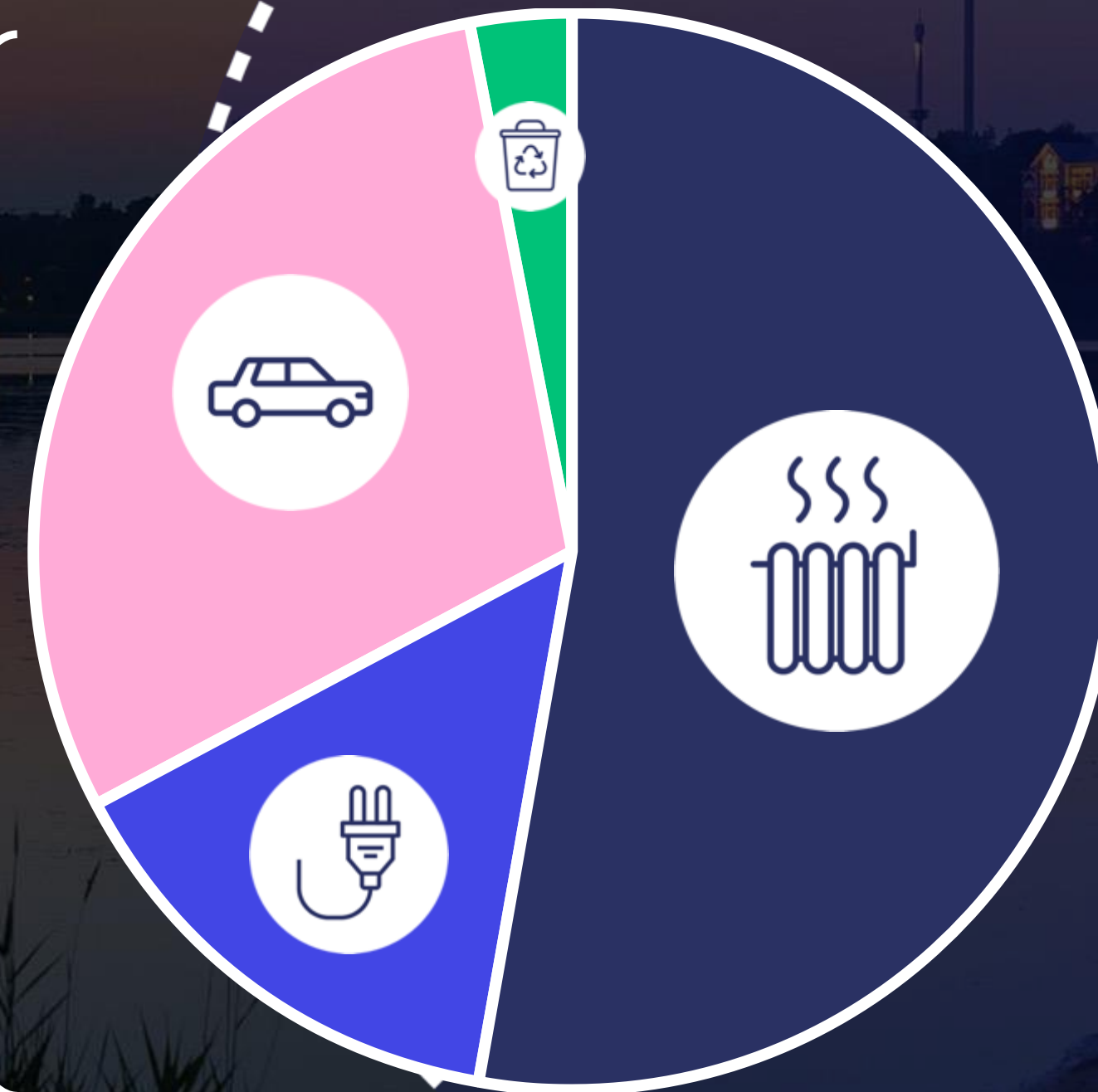


City of Helsinki has a plan to be Carbon Neutral by 2035. The plan tackles sector based emissions (emissions generated within city borders)

A sustainable limit for consumption based emissions is 2 t per person (to keep global warming under 1,5°C)

Even in Carbon neutral Helsinki 2035 emissions generated by consumption will be five times that


0,9 t CO₂e
per capita per year
(2020 3,9 t CO₂e)

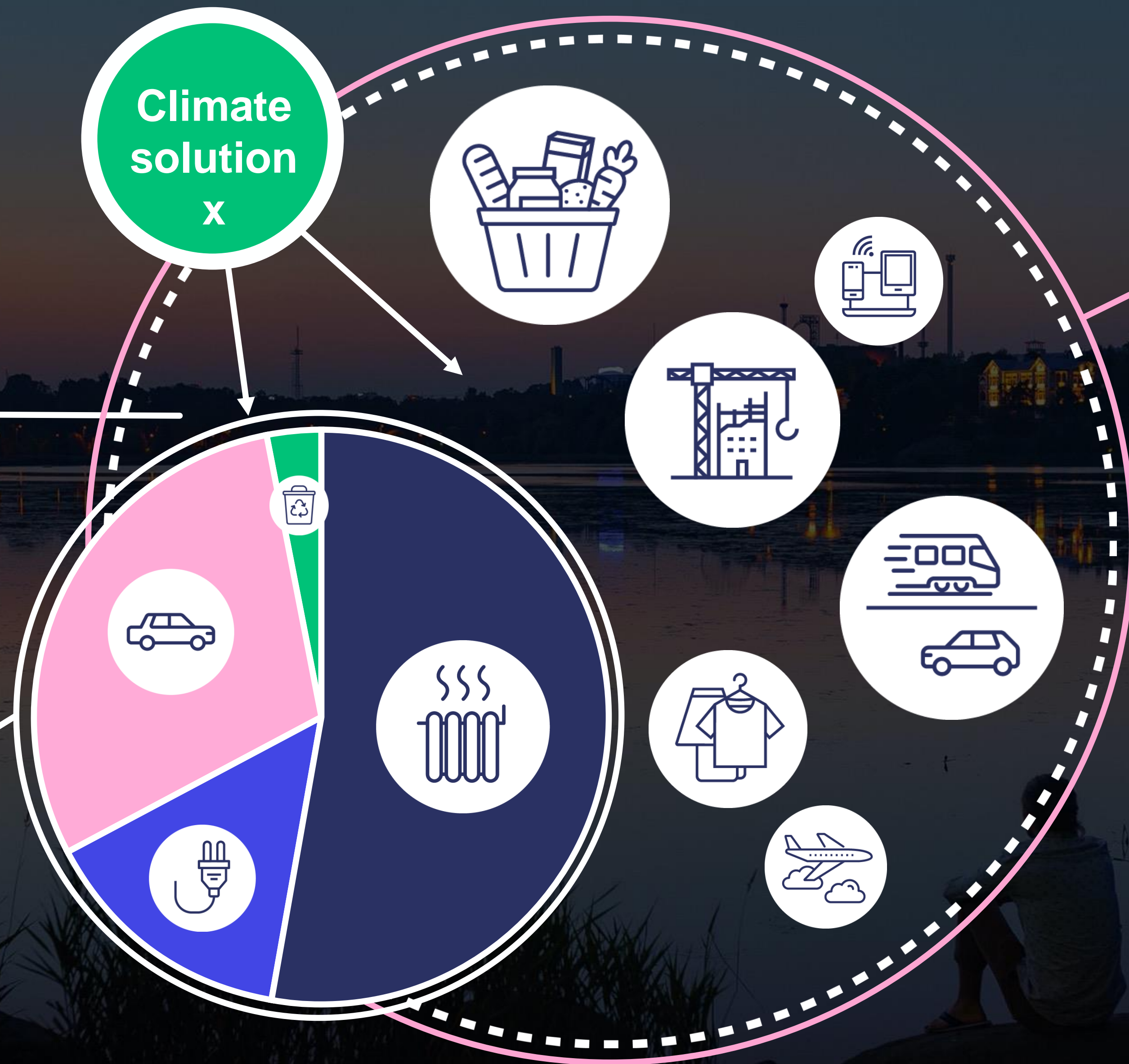


Consumption-based emissions


9,7 t CO₂e
per capita per year
(2020 12,7 t CO₂e)
(Estimation based on European C40 cities)

**1,5° goal is
2 t CO₂e**

Impactful climate action tackles both sector based and consumption based emissions

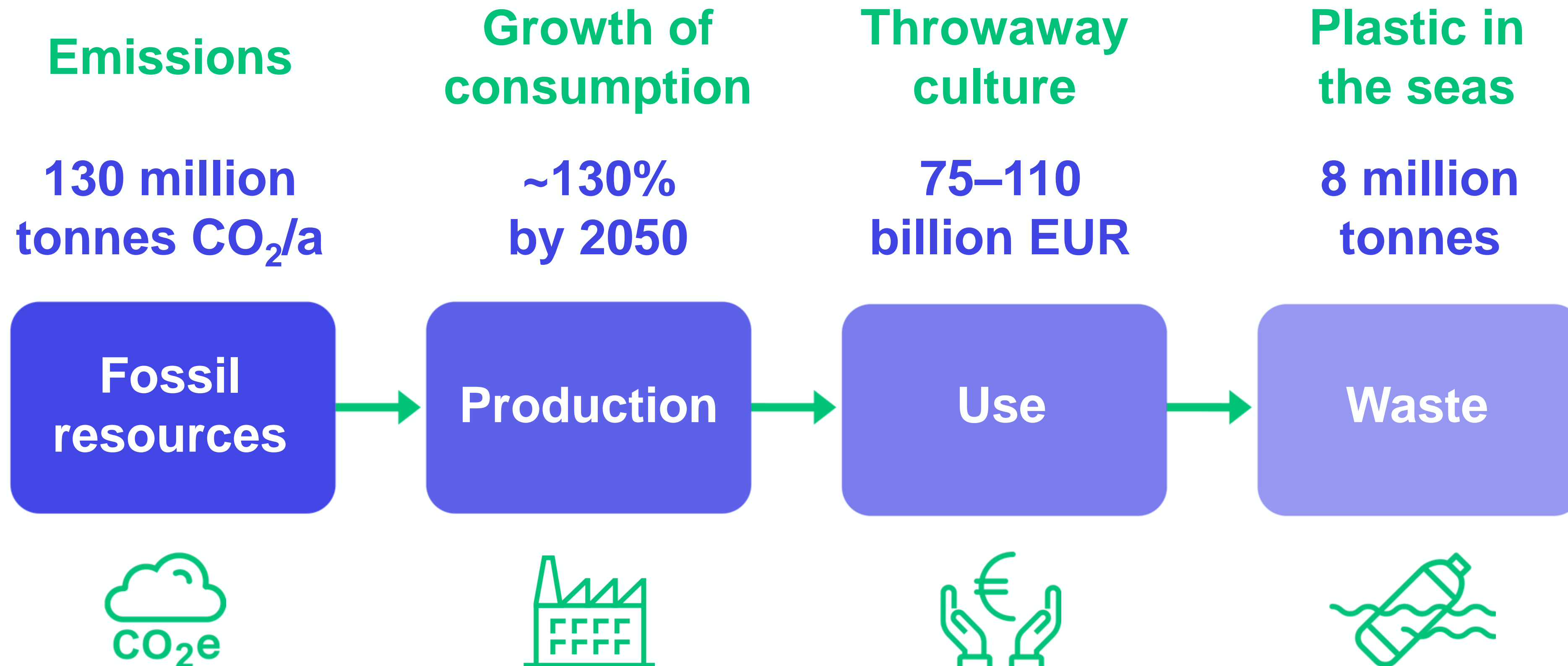


and creates opportunities for business while tackling the climate crisis

Making systemic change needs strong public-private partnerships




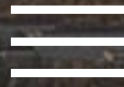
2. Understanding the problem and calculating impact

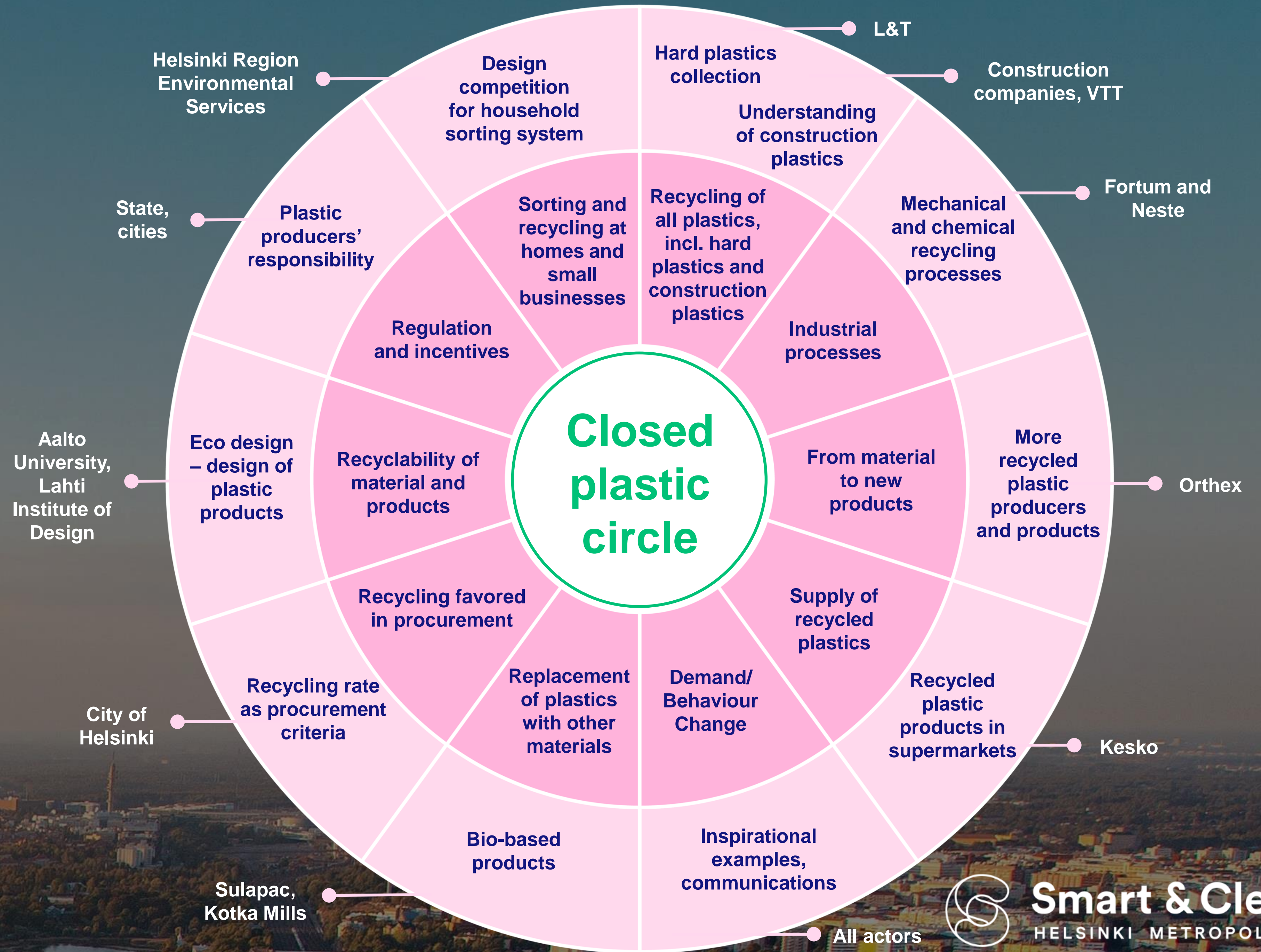
Global Plastic Challenge



3. Putting together all the actions needed

How to read this image

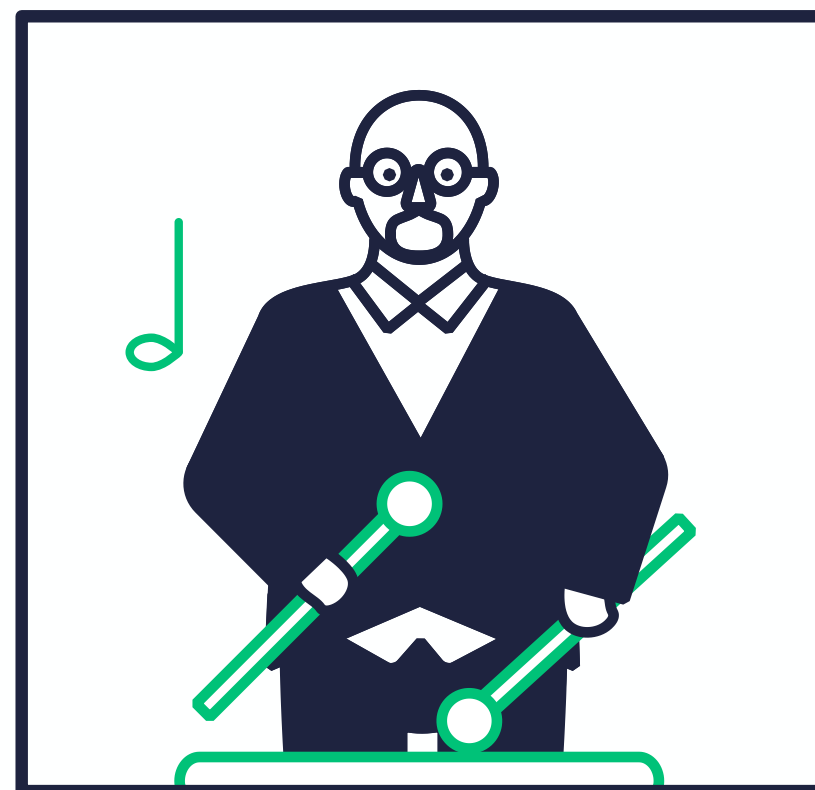
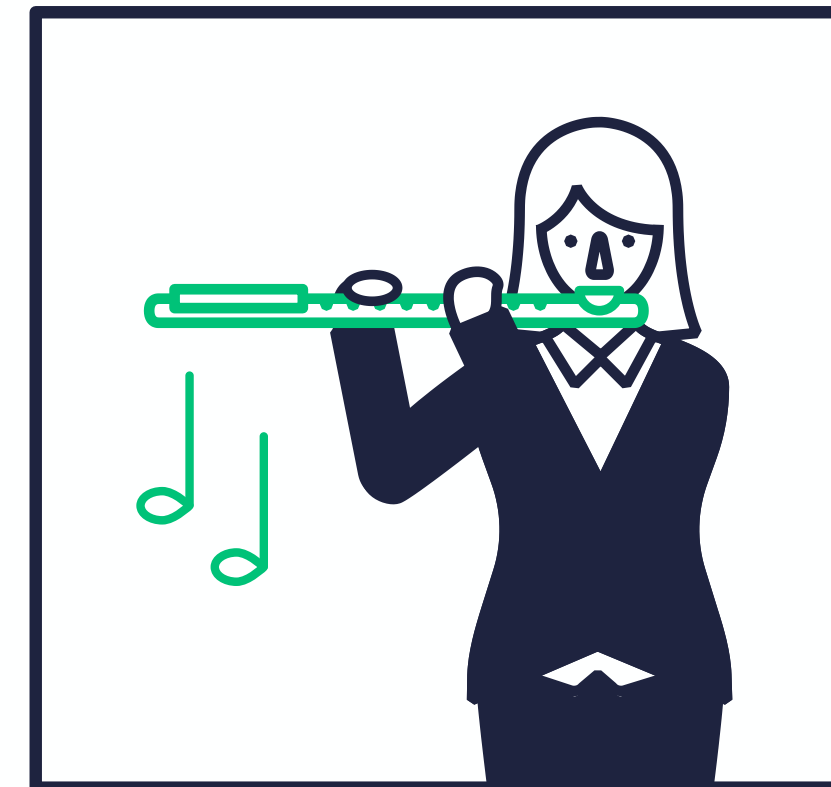
-  **Center:** the main goal of the project
-  **Inner circle:** All the dependent actions needed for a successful outcome
-  **Outer circle:** Subprojects contributing to each objective
-  **Outside the circle:** Involved actors



4. Getting the right people and organisations together...

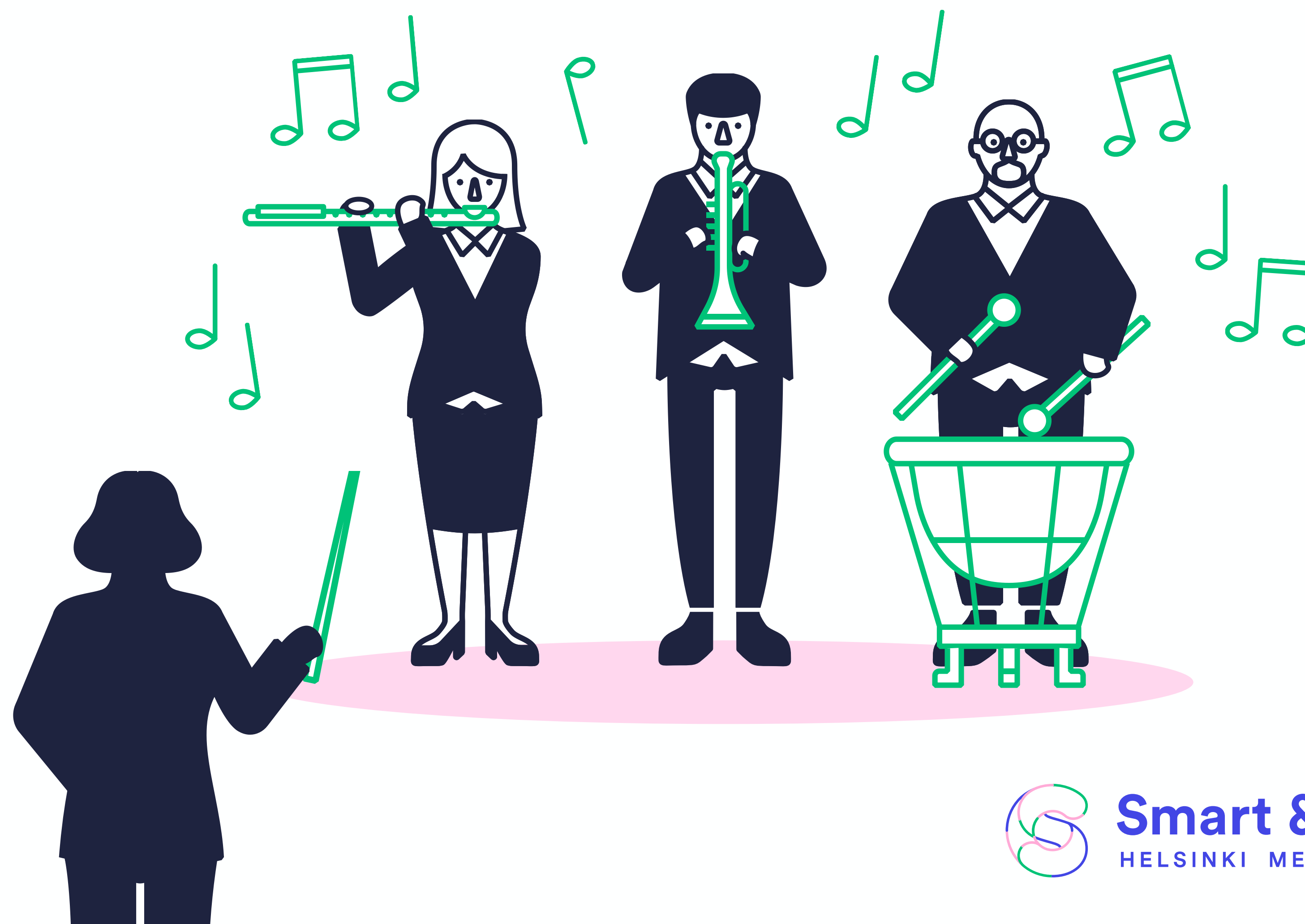


Identifying all the actors needed to make a systemic change



...and getting them to play together in an ecosystem

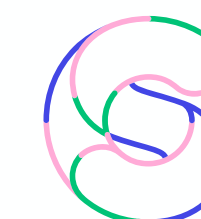
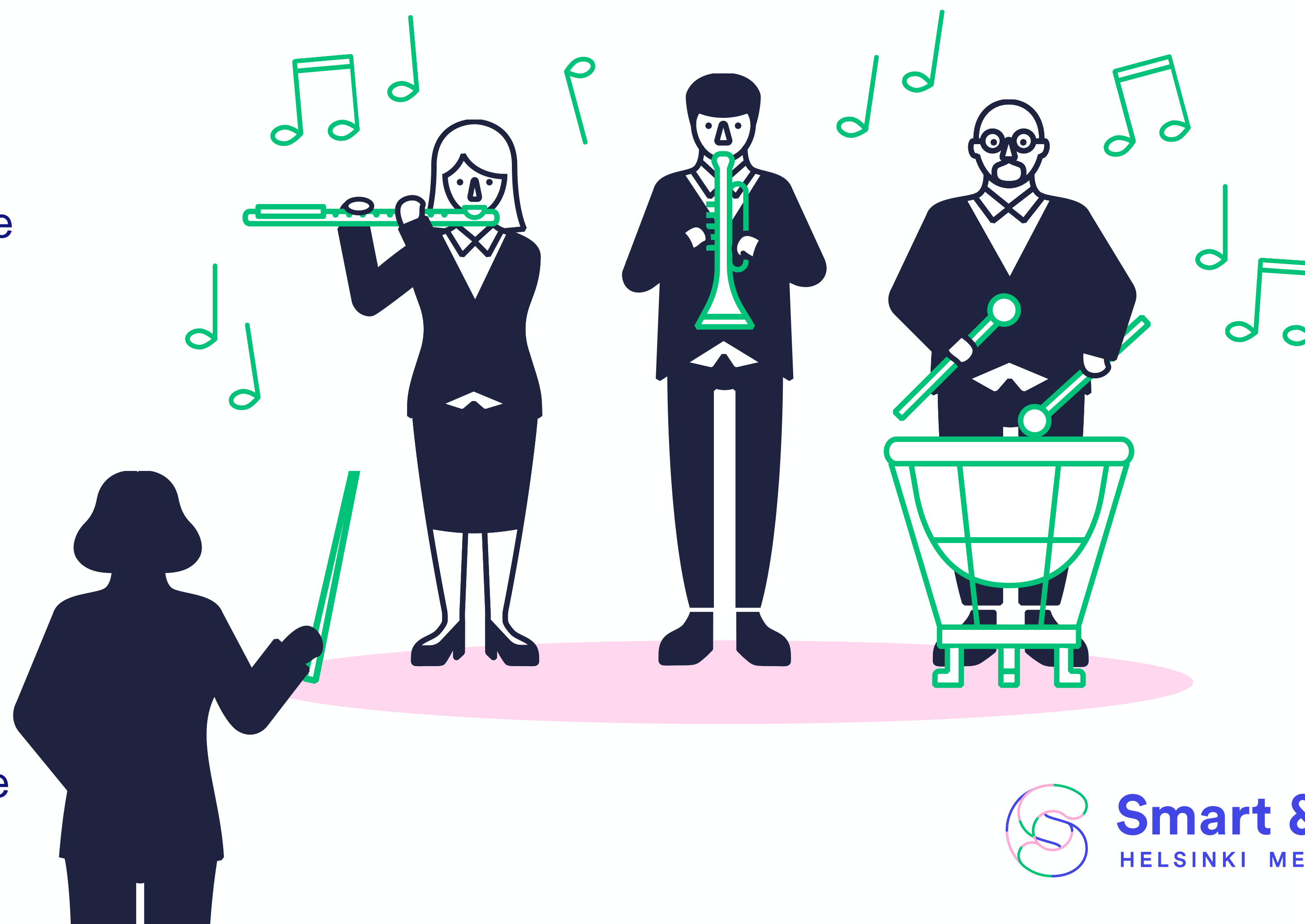
Creating leadership models that enable the individual actors to see that their actions are dependent on each other and that sometimes individual organisations need to compromise for the good of the common goal



Orchestrator's role is new and important in leading systemic change

An orchestrator:

- Collects data and calculates the impacts
- Creates a holistic picture of the actions needed to make systemic change
- Identifies and connects the actors
- Fosters trust
- Communicates and markets the ecosystem and the solution(s)
- Builds capacity and knowledge



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Smart & Clean Solutions for 1,5°C World.

Thank you!

tiina.kaho@smartclean.fi



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[Smart & Clean Community](https://www.linkedin.com/groups?trk=groups_directory)



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