

# Why Cities Must Aspire To Become 'Global Climate Cities'?



**Presentation at Finnish Cities' 9th Climate Conference, Tallinn 17 May**  
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# Why go global?

## - Three good reasons

1. *Fame/branding – getting the message through and building support in/out*
2. *Reaping benefits from collaboration – solutions are out there and in here*
3. *Building resilience and understanding – sharing the planet and the challenge*



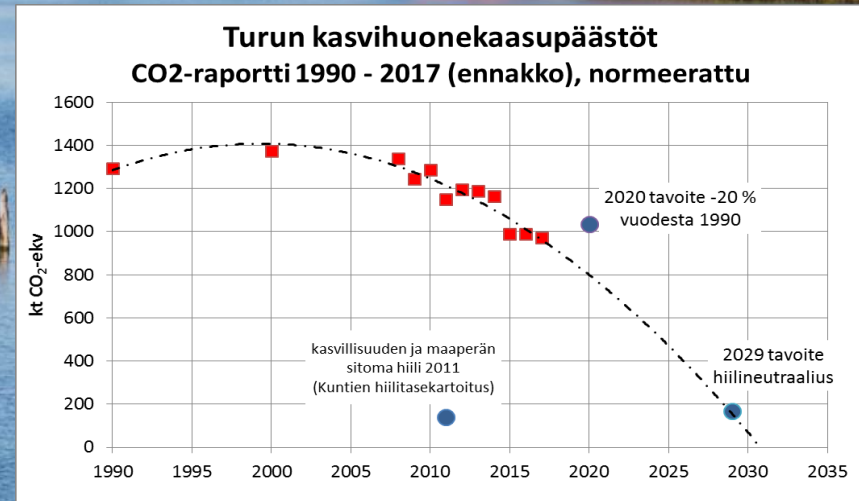
CITY OF  
TURKU



# 1. Fame/branding – getting the message through and building support in/out

## The first carbon-neutral city in Finland by 2029

City Council 16 April 2018



# Climate Action

## Top-9 Cities in 2014

CITY	COUNTRY	PERCENT REDUCTION	TARGET YEAR
Melbourne	Australia	100	2020
Copenhagen	Denmark	100	2025
Gävle	Sweden	100	2030
Östersund	Sweden	100	2030
Växjö	Sweden	100	2030
Santa Fe	US	100	2040
Stockholm	Sweden	100	2040
Turku	Finland	100	2040
Antwerp	Belgium	100	2040



Report by CDP and Climate Action Group,  
Published in New York, Sep. 2015



# UNLOCKING AMBITION:

TOP CORPORATE AND SUB-NATIONAL CLIMATE COMMITMENTS

SEPTEMBER 2015 UPDATE

# *The solutions are created and the story is told together*

- ❖ Co-creation partnerships
- ❖ Citizen participation
- ❖ Climate activism of businesses
- ❖ The whole society is challenged – everybody can create and implement climate actions and share the story







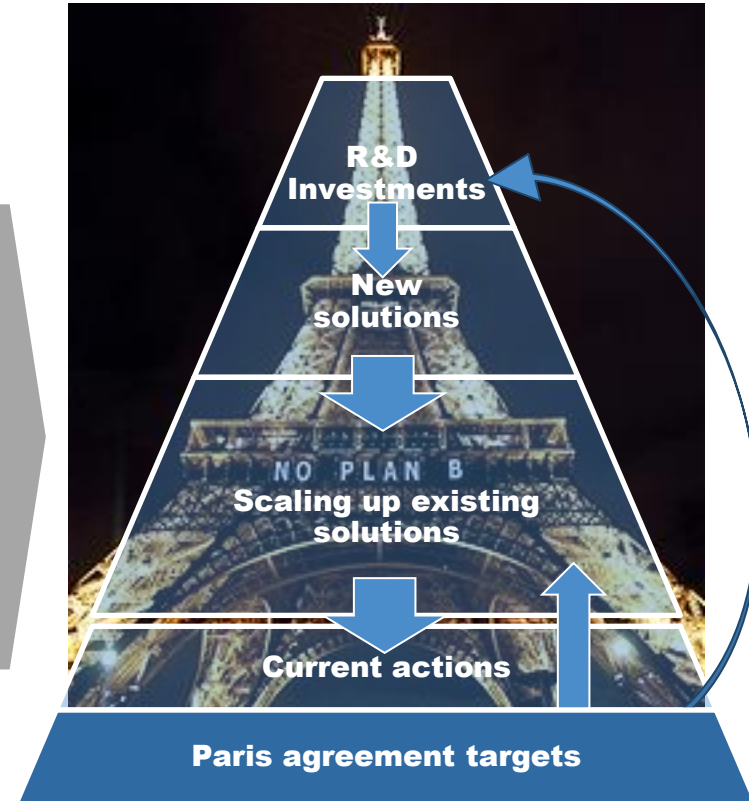
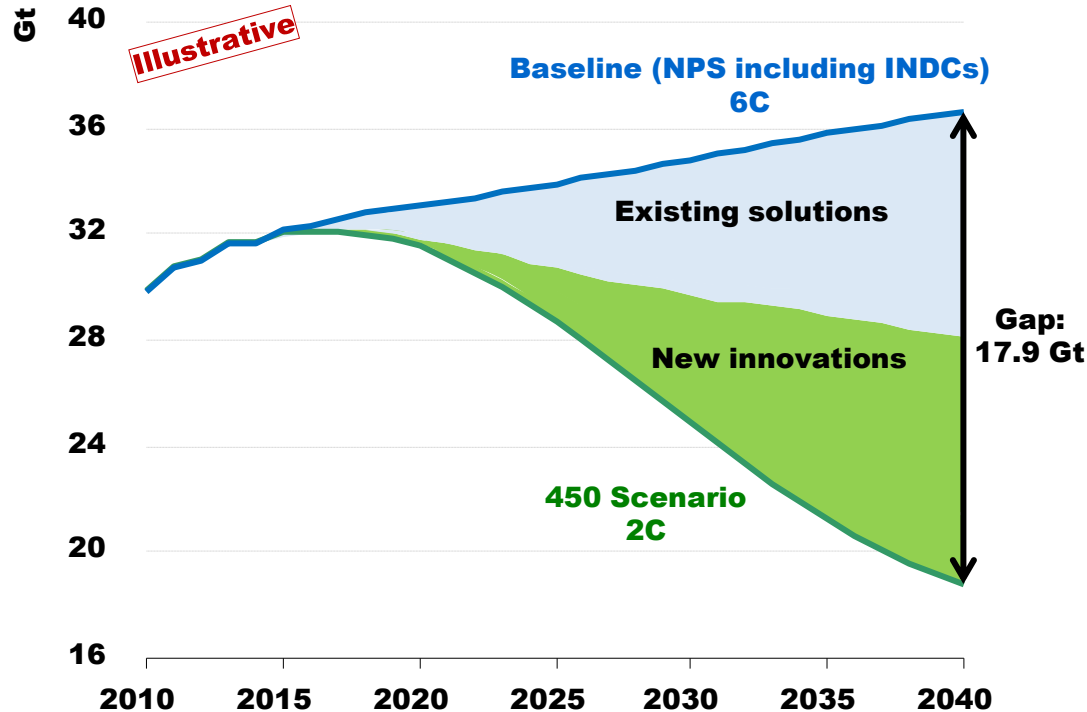
***Sustainable carbon-neutral  
city is achieved together!***



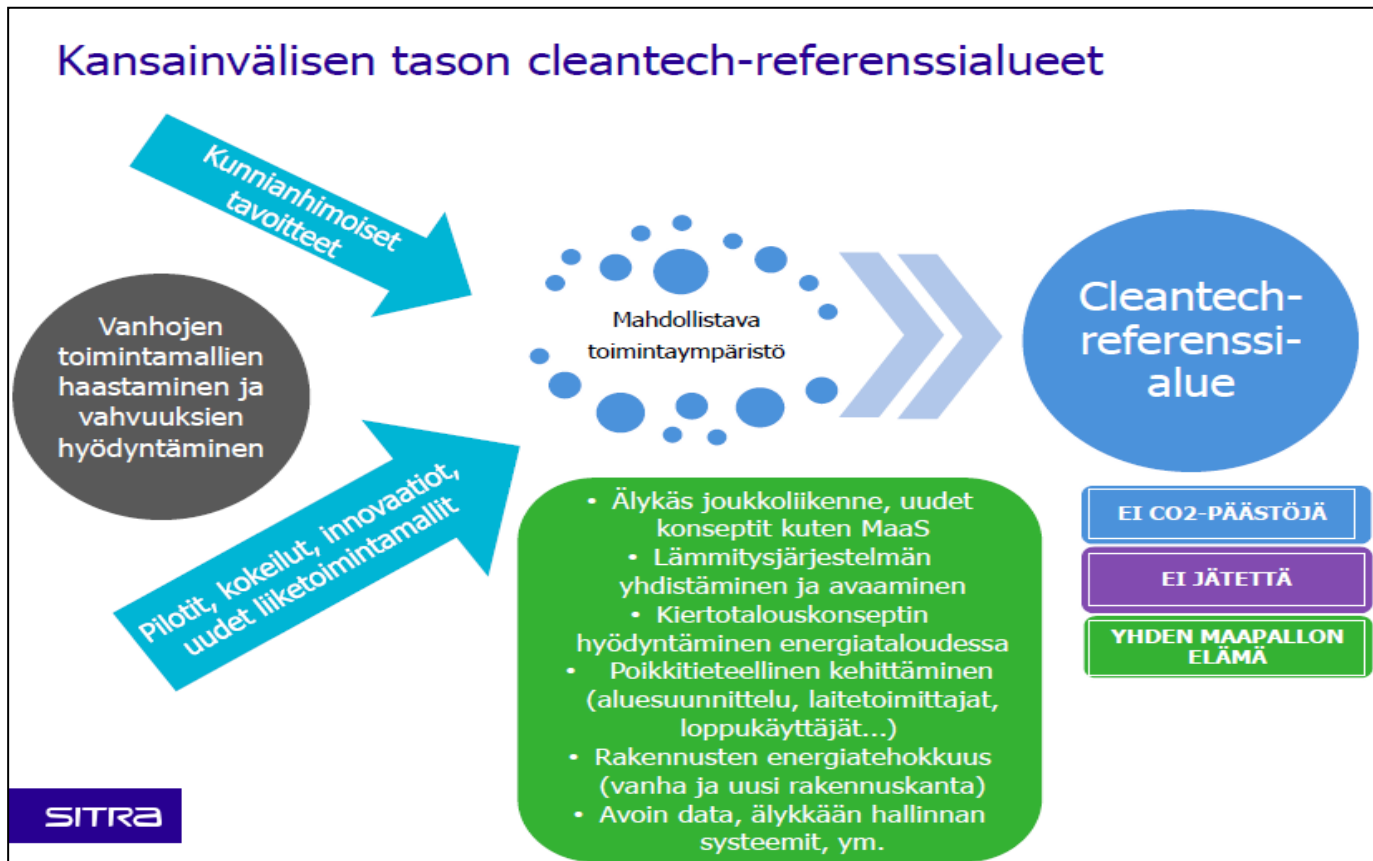
*...every single day!*

# Climate crisis calls for new and existing solutions

2. Reaping benefits from collaboration – solutions are out there and in here

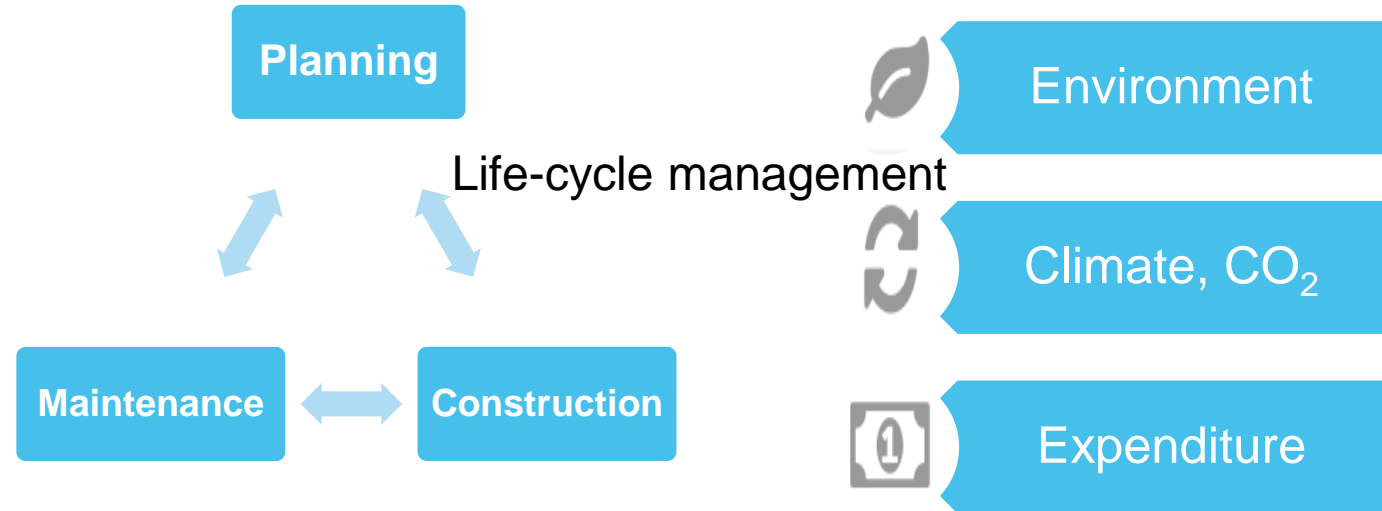


**Edelläkävijät** hyötyvät eniten: keräävät maineen ja vetävät kehityspanokset puoleensa. Suomen kunnilla on **edellytyksiä** kehittää ja toteuttaa globaalisti kiinnostavia ratkaisuja!



## **Life-cycle Assessment Model for Investment Planning and Implementation**

- The assessment model makes the environmental and climate impacts of investments and decisions visible concerning the whole life-cycle. This enables the projects to be managed from a holistic overall economic perspective.
- The model is being developed and tested in co-operation between the cities of Turku, Helsinki and Tampere and it forms a part of the Climate Commitment of the Mayors of the six largest cities of Finland.



# SOLUTION / EXAMPLE – RENEWING DISTRICT HEATING

## SKANSSI, TURKU ENERGY VISION 2025

### Housing premises:

Heating  
Cooling  
Energy production  
Energy storages  
Building automation

School building  
with innovative  
energy solutions

Recreational area  
with solar power  
plant

### Local renewable production

Solar connectors  
Geothermal heat utilisation  
Small scale CHP plants  
Geothermal heat storages

Business  
premises

Main DH network with  
110-120°C supply temperature,  
and main district cooling network

Heat exchanger towards  
main DH network

### Measurements and optimisation:

- Hourly based billing
- Integrated DH network control system and building automation system, enabling optimisation on Skanssi area level
- Real time information sharing

Skanssi area district heat  
network, 65-75°C  
supply temperature  
and district cooling  
network

### Shopping center

Heating, cooling  
Solar power plant

### 3. Building resilience and understanding – sharing the planet and the challenge



*Make use of shared benchmarks!*

## Turku Climate Plan 2029

(EU SECAP – Sustainable Energy and Climate Action Plan)

### European SECAP-model

- Periodic goals and milestones 2021 – 2025 – 2029 (for each City Council period)
- Baseline, emission scenarios, objectives and defined interventions / actions
- Mitigation actions for main emission sectors / reducing GHG emission
- Climate risks / vulnerabilities / adaptation actions and readiness
- Covenant of Mayors: network and data of over 6.000 cities
- Support of European Commission and city networks, events and projects, incl. Horizon 2020 opportunities



# All Cities on the planet are vulnerable to impacts of Climate-risks...



***...but the impacts of the risks are not equally shared, yet they shape the future of us all***





# Thank you!