

Welcome!

There is no lack of sustainable, climate friendly and smart technologies, but there seems to be challenges to implement and upscale them in city structures. Could finance be a barrier?

- Today: Selected cities share their experiences, progress and challenges in developing a sustainable, climate neutral city; with a specific focus on the financing need and potential solutions for funding.
- We (SEI, Cleantech Scandinavia and SSE-SIR Misum) <u>Viable Cities' Finance</u> project (2020-2022), funded by <u>Viable Cities</u>

Our panelists

- Gustaf Landahl
 - Head of Department of Planning and the Environment, City of Stockholm
- Frans-Anton Vermast
 - Senior Strategy Advisor Low Carbon and Connected Urban Planning, Amsterdam City
- Bud Braughton
 - Smart Columbus Project Manager
- Serge De Gheldere
 - Lead at Futureproofed & Klimaatzaak; Member of the Board and Executive Committee of Leuven2030

Agenda

14:30 Introduction to the session

Fedra Vanhuyse, Head of Societal Transitions Unit – Senior Research Fellow, Stockholm Environment Institute

14:35 The city perspective

- o Gustaf Landahl, Head of Department of Planning and the Environment, City of Stockholm
- o Frans-Anton Vermast, Senior Strategy Advisor Low Carbon and Connected Urban Planning, Amsterdam City
- Bud Braughton, Smart Columbus Project Manager

14.50 Financing sustainable city plans

 Serge De Gheldere, Lead at Futureproofed & Klimaatzaak; Member of the board and Executive Committee of Leuven2030

14:55 Q&A session between moderator and panellists

15:30 Q&A session with the audience

15:55 Concluding remarks

Fedra Vanhuyse

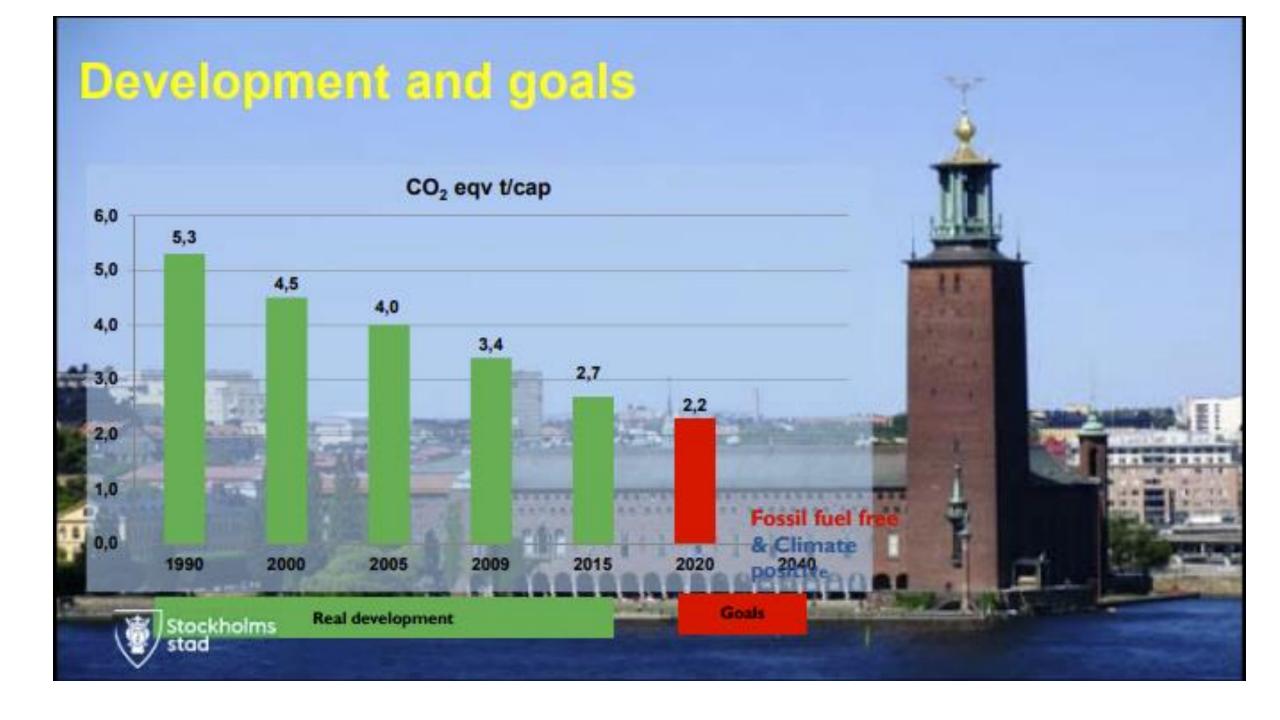
House rules

- Use the Q&A chat function to post your questions for the Q&A session at 15:30 CET
- Please state your name and organization/country
- Be short and clear

Gustaf Landahl

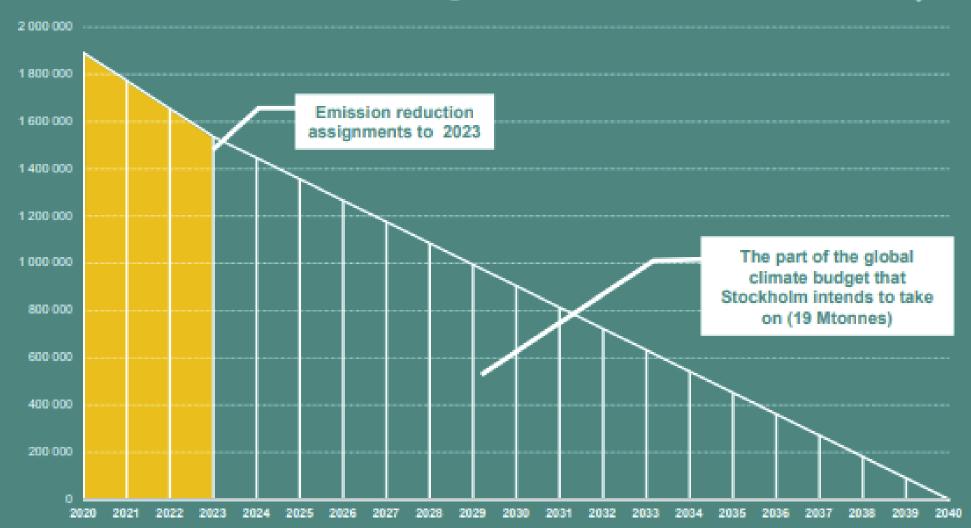
Head of Department of Planning and the Environment, City of Stockholm



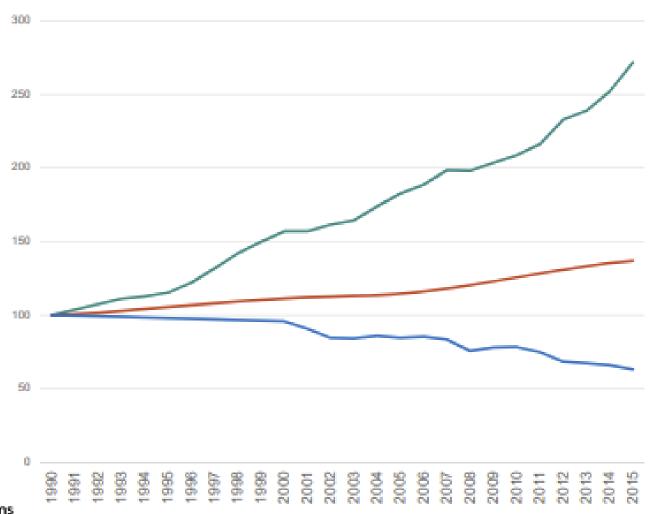


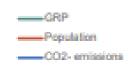
The Stockholm climate budget 2020–2040





Emissions and growth are decoupled







Implementation, a few examples

- The Swedish CO2 tax: 1991
- Action plans to reduce GHG-emissions: since 1996
- Combining environmental and financial information to the financial sector: 2018
- Pilot projects: The GrowSmarter project 2015-19 Created a Market for 12 Smart Solutions!: 2019





Frans-Anton Vermast

Senior Strategy Advisor Low Carbon and Connected Urban Planning, Amsterdam City

Amsterdam Smart City

Frans-Anton Vermast Strategy Advisor & International Smart City Ambassador

Let's create better streets, neighbourhoods and cities.

doing



Digital

Amsterdam Smart City 2



Energy from fossils to clean, creating sustainable energy options for all

Smart City from closed to open, using tech for social value approach to boost

Circular Economy from single use to restorative and regenerative use of resources





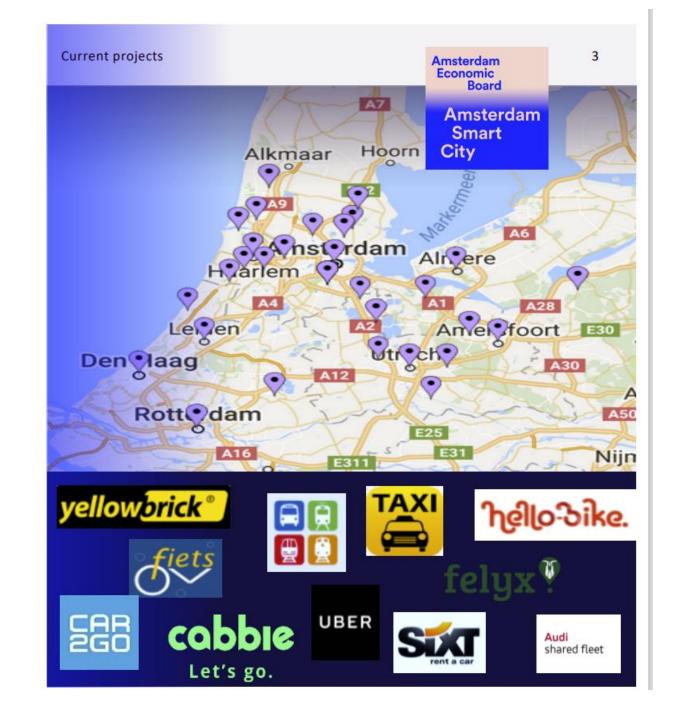
Mobility

from crowded and polluting to smart and sustainable mobility solutions

Let's create better streets, neighbourhoods and cities

Zuidas Mobility Experience

- Give up your car for 1 month and get €€
- Use as many different modalities
- Participate in employee research
- What does the traveler want with MaaS?



Amsterdam Smart City

Thank you! Want to join the movement? www.amsterdamsmartcity.com



Bud Braughton

Smart Columbus Project Manager



PROGRESS THROUGH PARTNERSHIPS



Installed 552,000+ Smart Meters



Installed 900+ EV charging stations



Installed 419 workplace chargers



Purchased 313 electric fleet vehicles



Engaged 40% of regional car dealerships



Opened world-class EV showcase facility



Forged unprecedented partnerships to increase e-mobility options



Conducted 12,400+ EV test drives

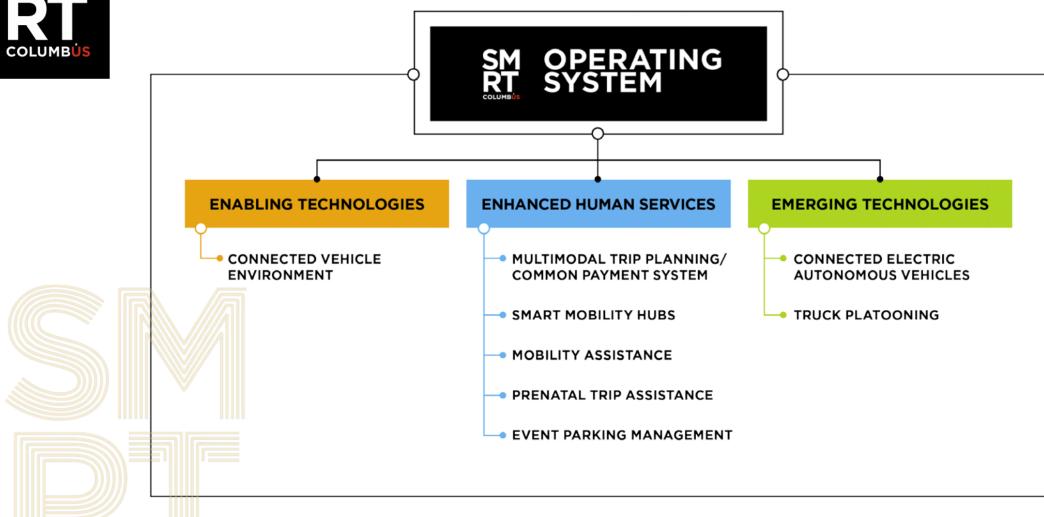


Influenced 3,458 people to buy an EV in 3 years





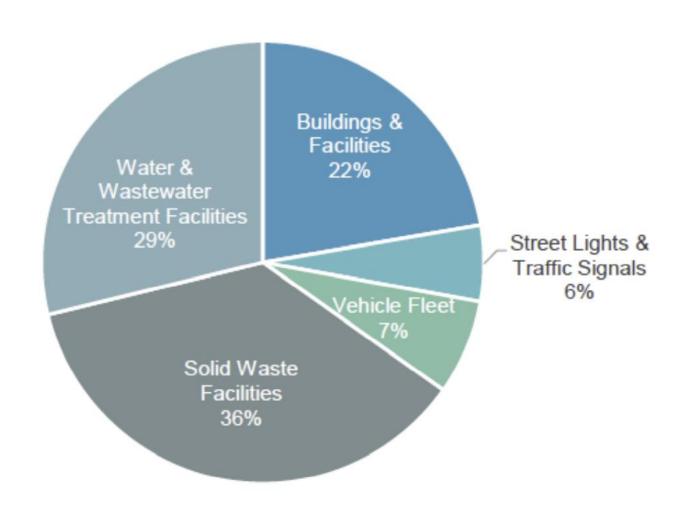
USDOT PORTFOLIO



City of Columbus

Government Operations CO₂e Emissions

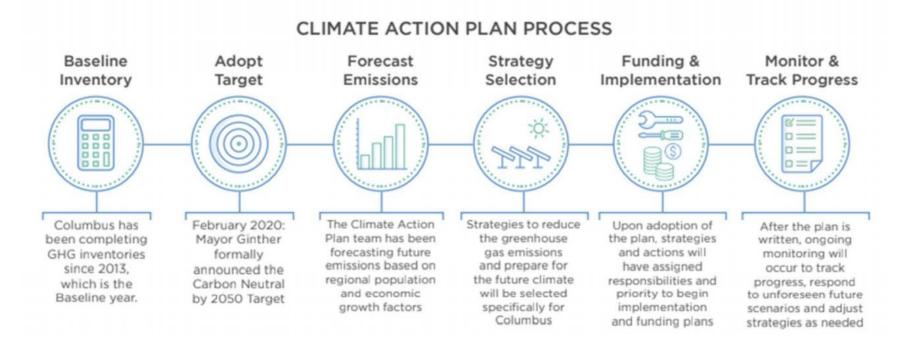
Sector Percentage of Total 2019





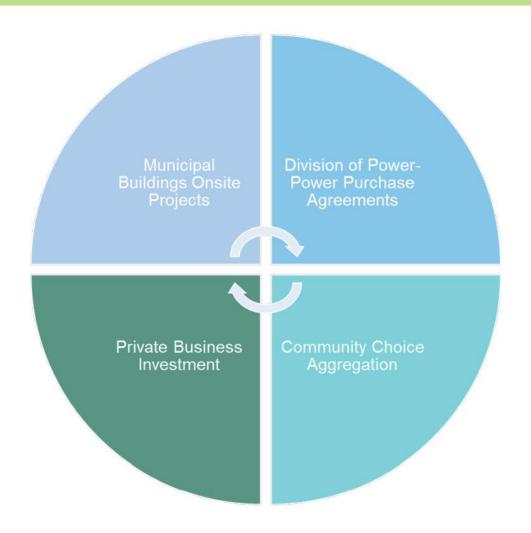
Climate Action Plan

 Global Covenant of Mayors for Climate & Energy Goal 2017: 40% GHG Reduction of Municipal Operations from 2005 Baseline by 2030

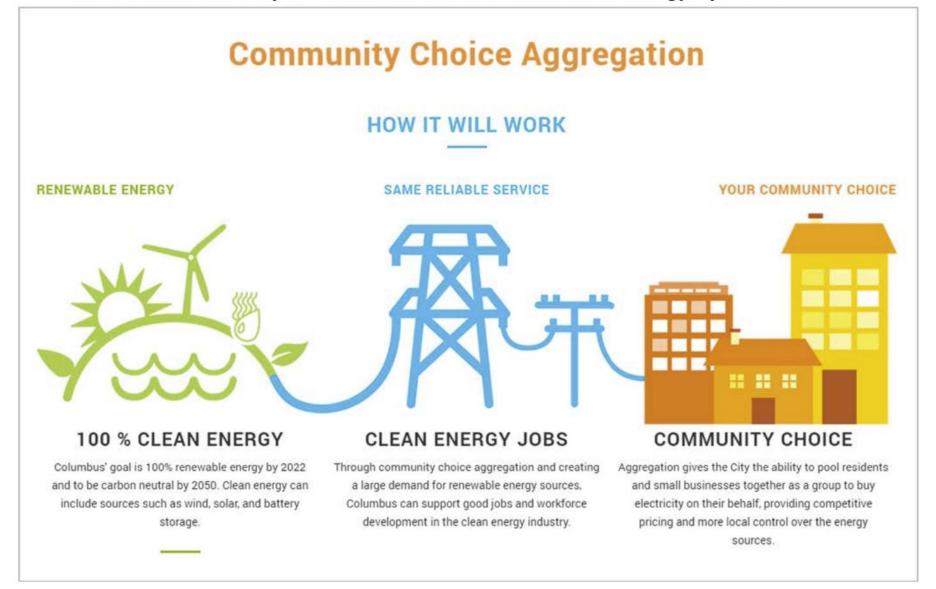




Climate Action Plan: Renewable Energy



Promoting a ballot measure on Community Choice Aggregation to appear on the ballot for the November 3, 2020 election. If City of Columbus voters approve, it would allow the City to transition to 100% renewable energy by 2022.

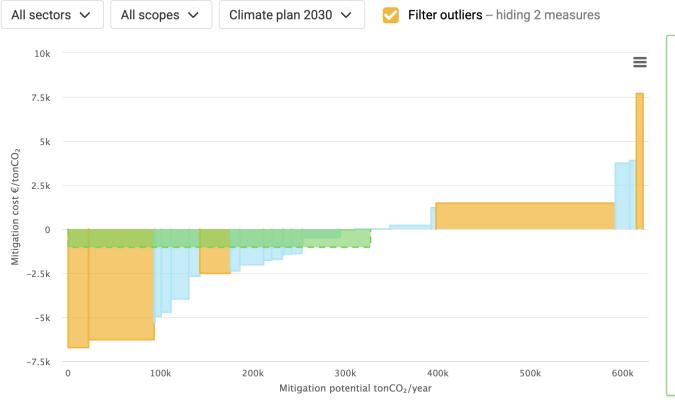


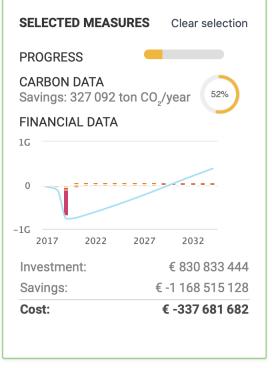
Serge De Gheldere

Lead at Futureproofed & Klimaatzaak; Member of the board and Executive Committee of Leuven 2030

Mitigation cost curve of all measures :

This curve shows the mitigation cost of all measures. Their mitigation potential is on the x-axis and their cost in \in per ton CO₂ on the y-axis. The surface of the bars represents the cost of the measure after 15 years.







Concluding remarks

Concluding remarks

National legislation necessary to push sustainable city agenda; but regulatory "holiday" for pilot projects

From pilot to scaling: private sector to step in; city government facilitator in this

Combine different investment needs to have more leverage and go to market;

Finances: balance needed

Transportation needs to be tackled – change need for commuting; add broadband; EV and biofuel cars; overcome range

anxiety

Declining and rural cities: help from bigger cities – solutions available for everyone

Asking for forgiveness instead of permission?

Next sessions:

- November 9: The role of private financiers
- November 16: Funding mechanisms
- November: 16: The business case for sustainable cities finance

More info: https://smartcityscandinavia.com/

