



Design Your City's Net Zero Strategy: Online Planning Lab

NetZeroCities online course for all cities

September 16th- December 11th 2025





13/11/2025

Module 4 – Spotlight Session 5

Scope 3 emissions

What can a city do about its hidden footprint?





MODULE 1	<p>Core The NetZeroCities program, service offering, systemic approach, what works for Mission Cities</p>	<p>Spotlight 1 NetZeroCities Orientation</p>	<p>Spotlight 2 Shaping Climate Narratives</p>	<p>Spotlight 3 Climate City Contracts</p>		
MODULE 2	<p>Core Developing a transition team, mapping and activating the ecosystem</p>	<p>Spotlight 1 Transition team & climate leadership</p>	<p>Spotlight 2 Engaging the private sector</p>	<p>Spotlight 3 Citizen engagement for systemic climate action</p>		
MODULE 3	<p>Core Developing the city's action plan for climate neutrality</p>	<p>Spotlight 1 Reporting and MEL</p>	<p>Spotlight 2 Co-Designing a Climate Portfolio</p>	<p>Spotlight 3 Using NetZeroPlanner to Support Climate Planning, MEL, and Implementation Management to Achieve Net Zero Goals</p>		
MODULE 4	<p>Core Levers of change: Technical solutions, social innovation and multi-actor collaborations</p>	<p>Spotlight 1 Passive solutions to reduce energy demand in buildings</p>	<p>Spotlight 2 Systemic energy transition at buildings, districts and city level</p>	<p>Spotlight 3 Data-driven approaches to energy transition in buildings and districts</p>	<p>Spotlight 4 Mobility: Behavioural change and digital solutions</p>	<p>Spotlight 5 Scope 3 and other emission domains</p>
MODULE 5	<p>Core Increase finance knowledge of the public administration & learn about options to finance projects</p>	<p>Spotlight 1 Preparing a pipeline of projects for external financing</p>	<p>Spotlight 2 Different investor groups and the key priorities and returns profiles for each and instruments</p>	<p>Spotlight 3 Financing the ambition: Learning from Mission Cities</p>		
MODULE 6	<p>Core Multilevel governance, national platforms and policy strategies</p>	<p>Spotlight 1 Policy and regulations innovation</p>	<p>Spotlight 2 Public procurement – national specificities</p>	<p>Spotlight 3 Just transition</p>		



Housekeeping



Stay muted unless you are invited to speak.



Raise your hand before speaking.



Stay engaged: We invite you to keep your camera on.



Use the chat for questions and to introduce yourself.



Change your Zoom name to include your city.





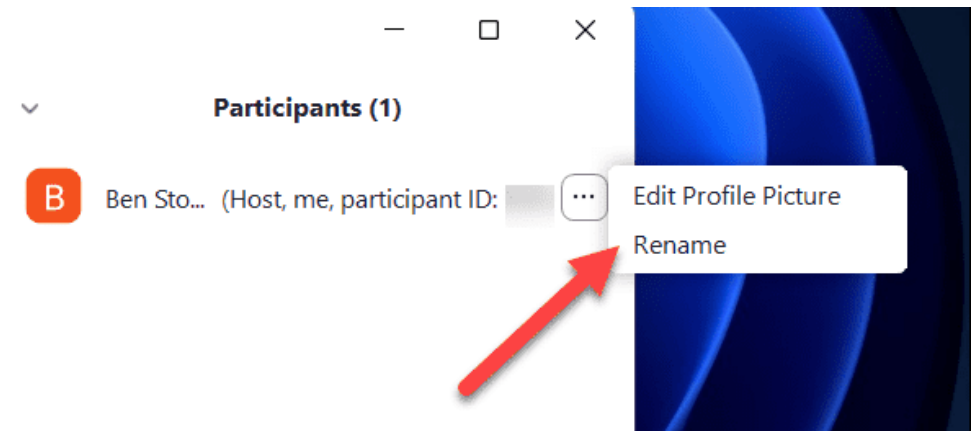
Activate Closed Captions to keep up with the speakers.






Renaming

- In the meeting controls toolbar, click on **Participants**. 
- Hover your mouse over your name, then click **More** or the **ellipsis icon**. ()
- Click **Rename**. A pop-up box will appear.
- In the pop-up box, enter your display name.
- Click **Change**.

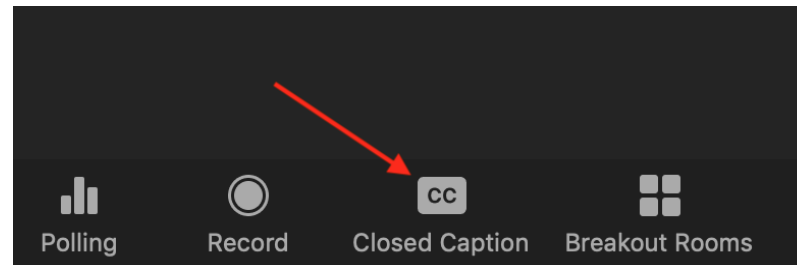




Activating Closed Captions

- In the meeting controls toolbar, click the **Show captions** icon. ()
- Captions will automatically appear above the meeting controls toolbar.

***Caption language:** Please do not change the spoken language of the meeting, as captions will change for everyone.





Participation

This course is intended for all EU (and Horizon affiliated countries) cities that do not yet have (or aim to improve) a climate Action Plan for the city

- It's open to any municipality as well as to consultants, experts, regional authorities, etc.
- The course guides cities into developing a climate action plan | No funding available for participating cities
- This course is NOT for students
- After each session, facilitators remain online for Q&A

26 online sessions
of which 6 are core
sessions

Tuesday 9.15-11.00 and
Thursday 13.15-15.00

Participation is **free**





Certification

Free

Municipalities that **attend all 6 core sessions** will obtain a certificate of attendance for the city issued by the NetZeroCities project

30€

Participants who **attend all 6 core sessions can obtain** a certificate of attendance issued by **Universidad Politecnica de Madrid**



Online ceremony on December 11th 2025

In-person ceremony at the City Conference in Turin May 2026





Recordings and activities

- All participants who sign up for the program receive an email **after each module with the video recording** of the sessions and additional useful information.
- Before joining each session, you will be requested to agree with the course privacy policy, provide **permission for recording** and details of your municipality or profile to be able to issue the attendance certificates.
- The program is structured into **six modules**, each offering 4-6 hands-on sessions led by expert practitioners and cities. Each session will have an interactive component, in which you can share your questions and experiences.

Q: Can you participate in single sessions?

A: Yes! If you sign up for the course, you will receive communications and links to all the sessions. All sessions are held on Zoom (online). All participants who sign up for the program receive an email after each module with the video recording of the session and additional useful information.

Q: What is the level of English proficiency required?

A: Participants can ask questions in their own (European) language in the chat.

DISCLAIMER: Before joining each session, you will be requested to agree with the course privacy policy, provide **permission for recording** and details of your municipality or profile to be able to issue the attendance certificates.





Sign-up and Portal Group

What should you do now?

There is **no deadline** for applying to the course. All sessions are held on Zoom, and you can join the Zoom meeting through the link provided in this email or in the course program page on the NetZeroCities portal.

1. **[SIGN UP NOW](#)** for Zoom sessions and **ADD** them to your **CALENDAR**
2. Read carefully the [online pages for each session](#) and register in advance for each of the sessions on the Zoom platform.
3. Join the dedicated group for this course to interact with other participants: [Design Your City's Net Zero Strategy: Online Planning Lab](#)





Faculty

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Alexandru Buftic



Marcial Silva



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13/11/2025

Module 4 – Spotlight Session 5

Scope 3 emissions

What can a city do about its hidden footprint?





Session Agenda

1. Introduction
2. Understanding Scopes
3. Breakout session: identifying change
4. City-level actions
5. Wrap up and discussion

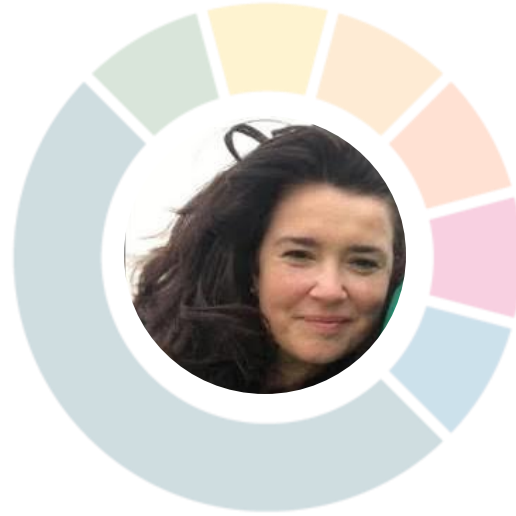




Lecturers



Apurva Singh
Metabolic Institute



Anna Barnouw
Metabolic Institute



Nupur Prothi
ICLEI





Introduction

- Which city do you represent?
- What was your motivation to sign up for today's session?





Learning objectives for this session

- The session aims to help participants:
 - Understand the definition and significance of Scope 3 emissions within your city's context
 - Identify key sources of Scope 3 emissions relevant to city operations and influence.
 - Explore the role municipalities can play in addressing Scope 3 emissions in local climate action planning and decision-making.





What are indirect emissions?



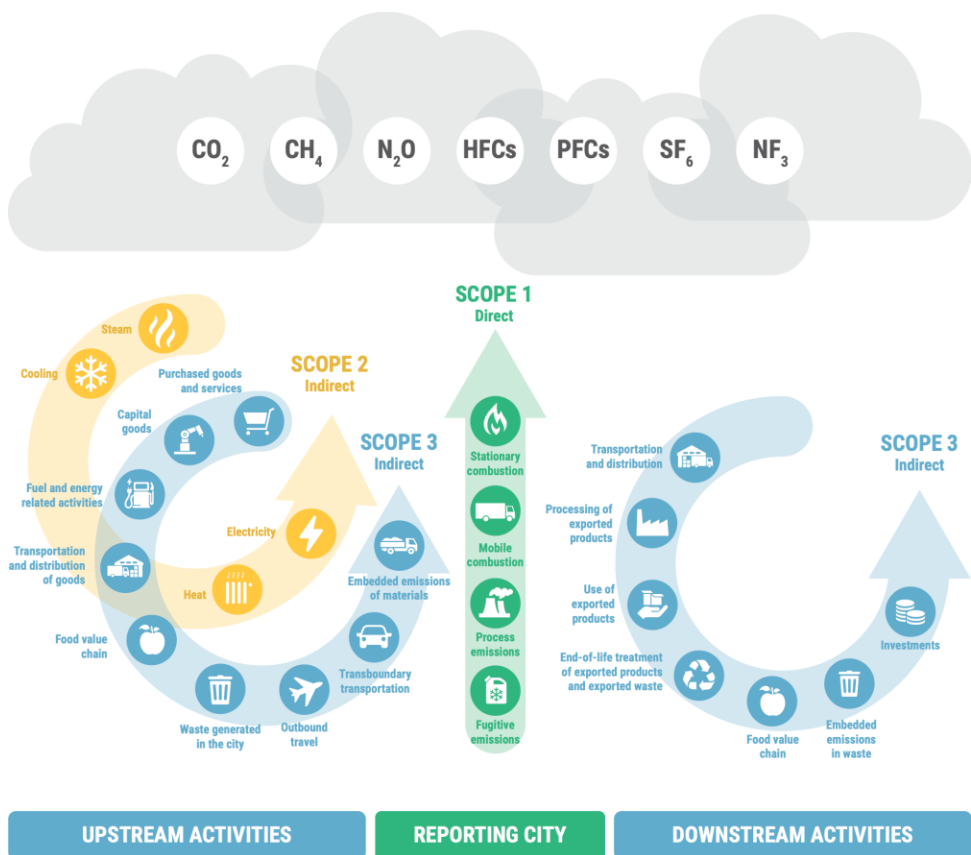


Please join us here on Mentimeter, either on your phone with this code or through the link in the chat





Introducing the scopes



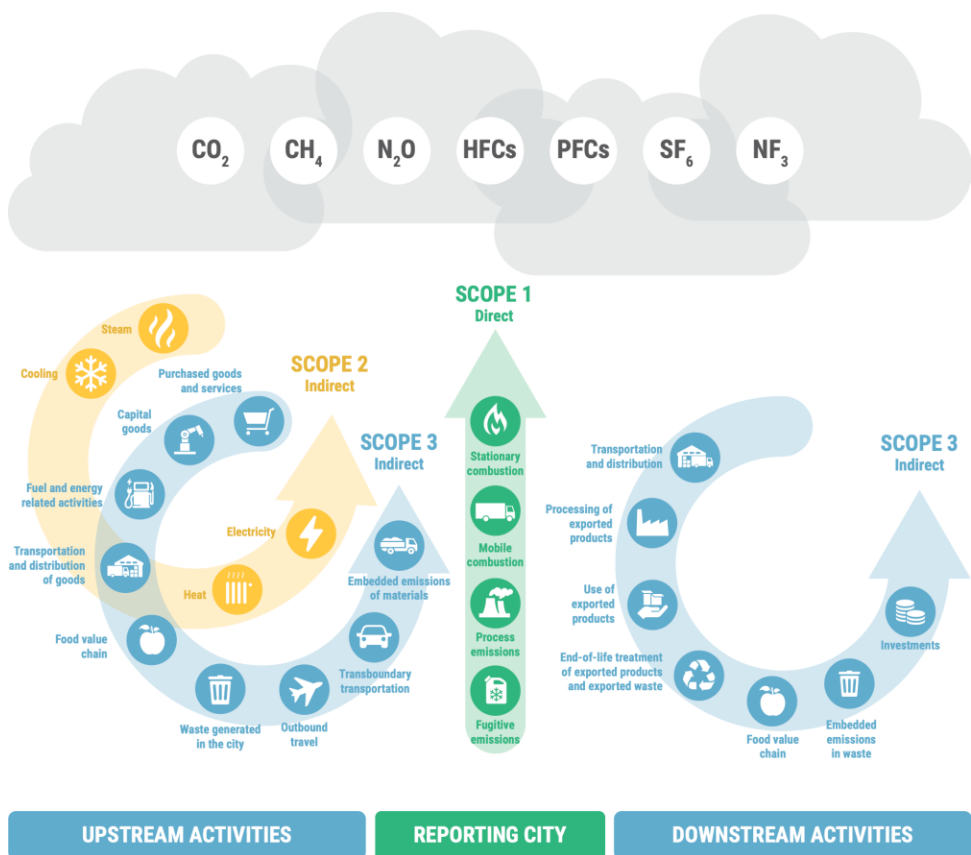
Scope 1 Emissions

All DIRECT emissions from sources located within the city boundary (e.g., fuel combustion).





Introducing the scopes



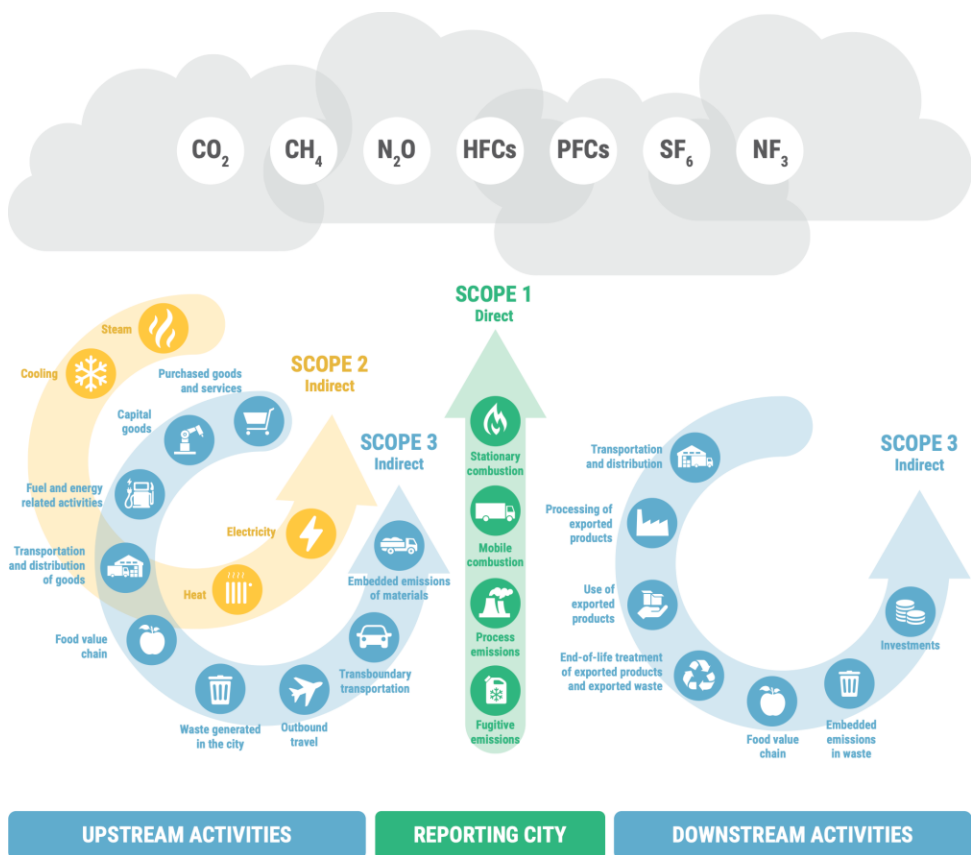
Scope 2 Emissions

INDIRECT emissions from grid-supplied electricity, heat, or cooling consumed within the city.





Introducing the scopes



Scope 3 Emissions

All other INDIRECT emissions outside the city resulting from consumption within the city.





Territorial Inventory:
Focuses on emissions produced **WITHIN** city boundaries (Scope 1 + 2).



Consumption-Based:
Tracks emissions from city consumption, **wherever they occur** (Scope 1+2+3).

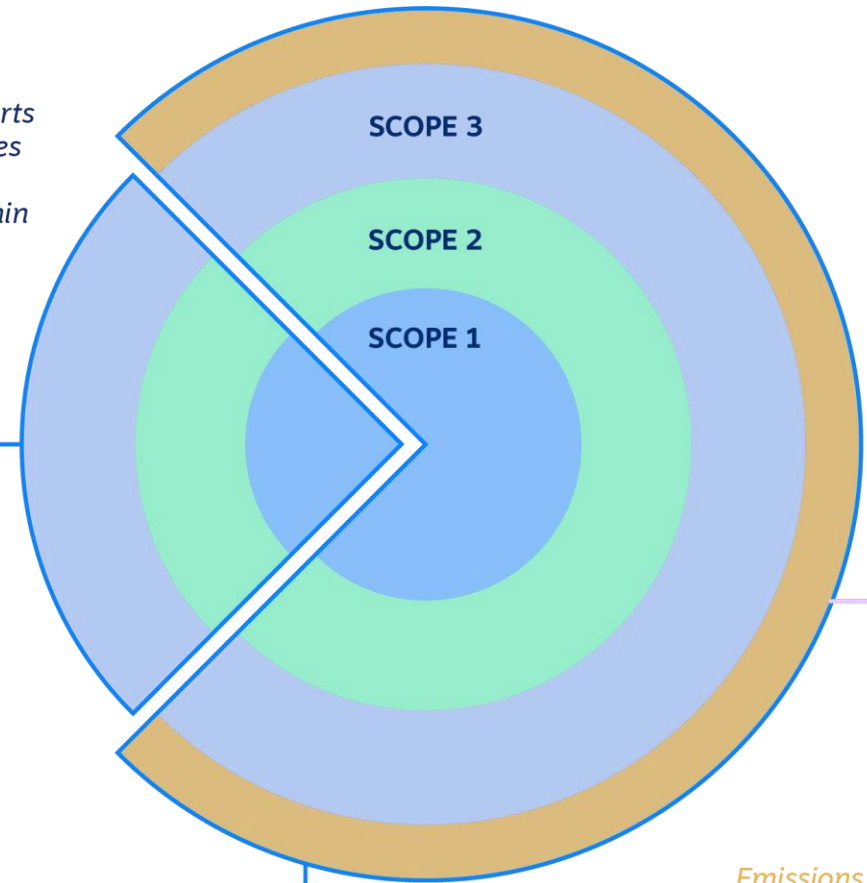




Connecting the two

- Scope 3 and Consumption-based inventories (CBEs)

Emissions associated with exports such as energy used in industries that primarily export, or purchases done by tourists within the city. These are included in Scope 1, 2 and 3 but not in consumption-based emissions.



Consumption-based emissions associated to the city's & resident's consumption.

Emissions associated to City resident's activities outside the city territory.





60%

Why should cities measure these emissions?

A 2019 study by C40 cities, ARUP and University of Leeds found:

*“When considering C40 cities’ consumption-based emissions, mayors, businesses and urban residents can influence an approximately **60% larger share** of global GHG emissions than previously thought.”*





Click to download as image

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A world map where city areas are highlighted in a vibrant purple color, representing their carbon emissions. The map shows a high concentration of these purple areas in North America, Europe, and East Asia, with smaller clusters in South America, Africa, and Australia. The background of the map is a dark, textured grey.

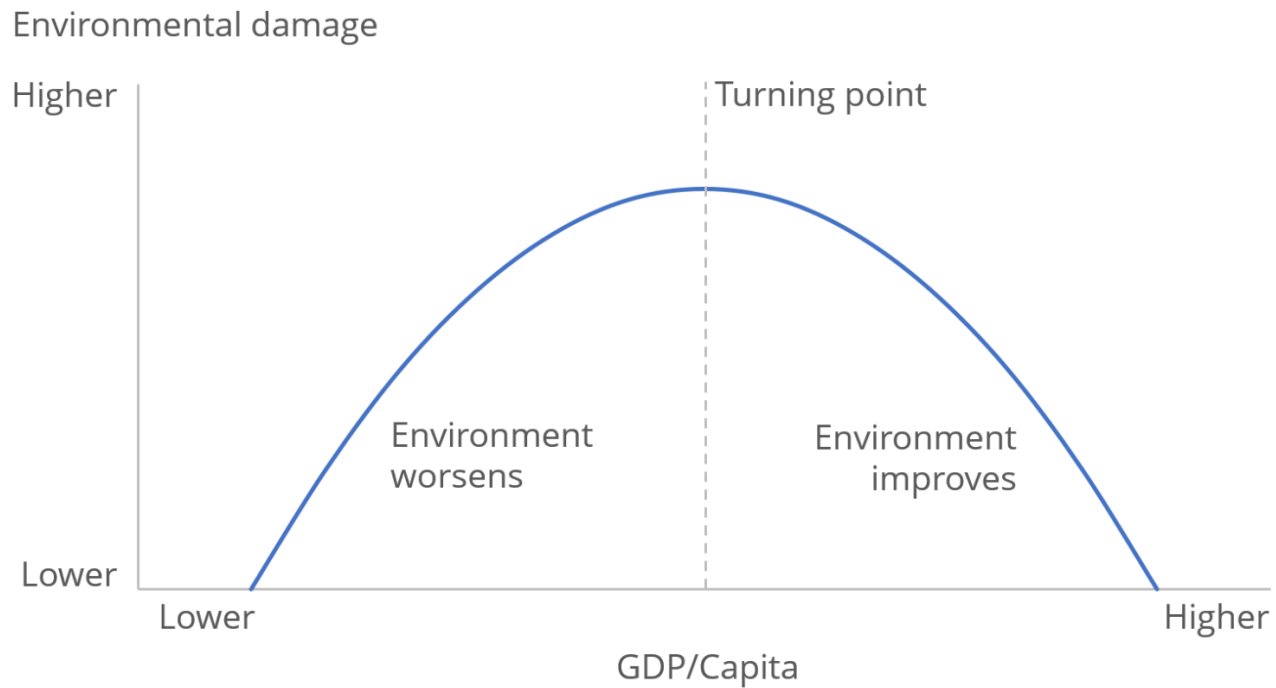
100 cities drive 18% of global emissions when indirect emissions are taken into account



Funded by
the European Union

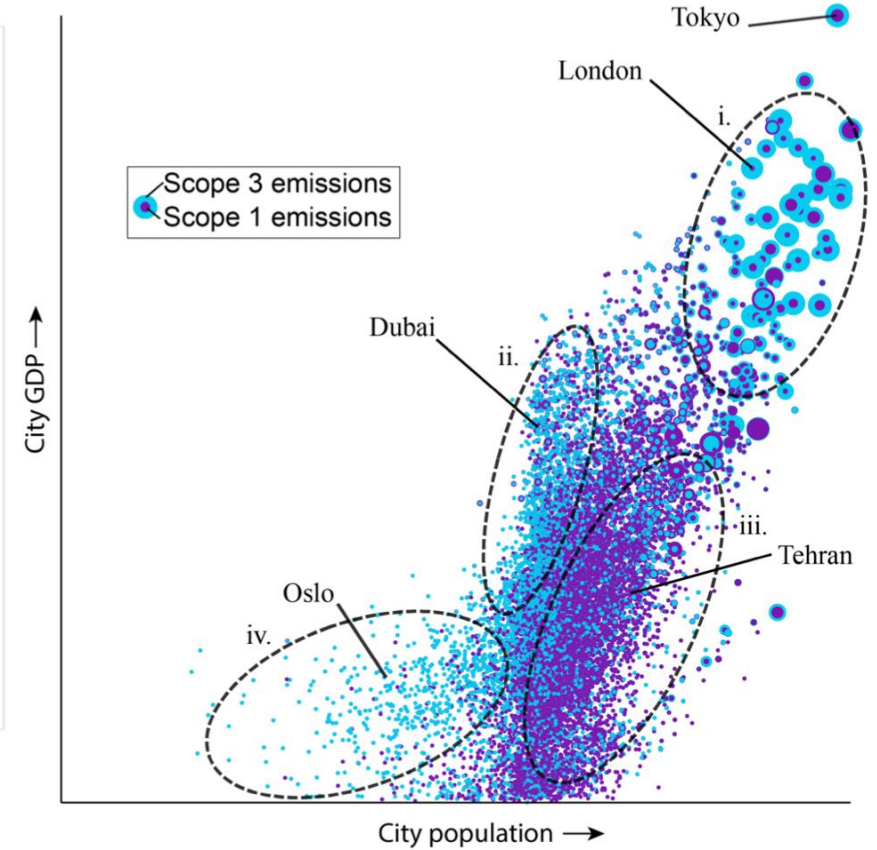
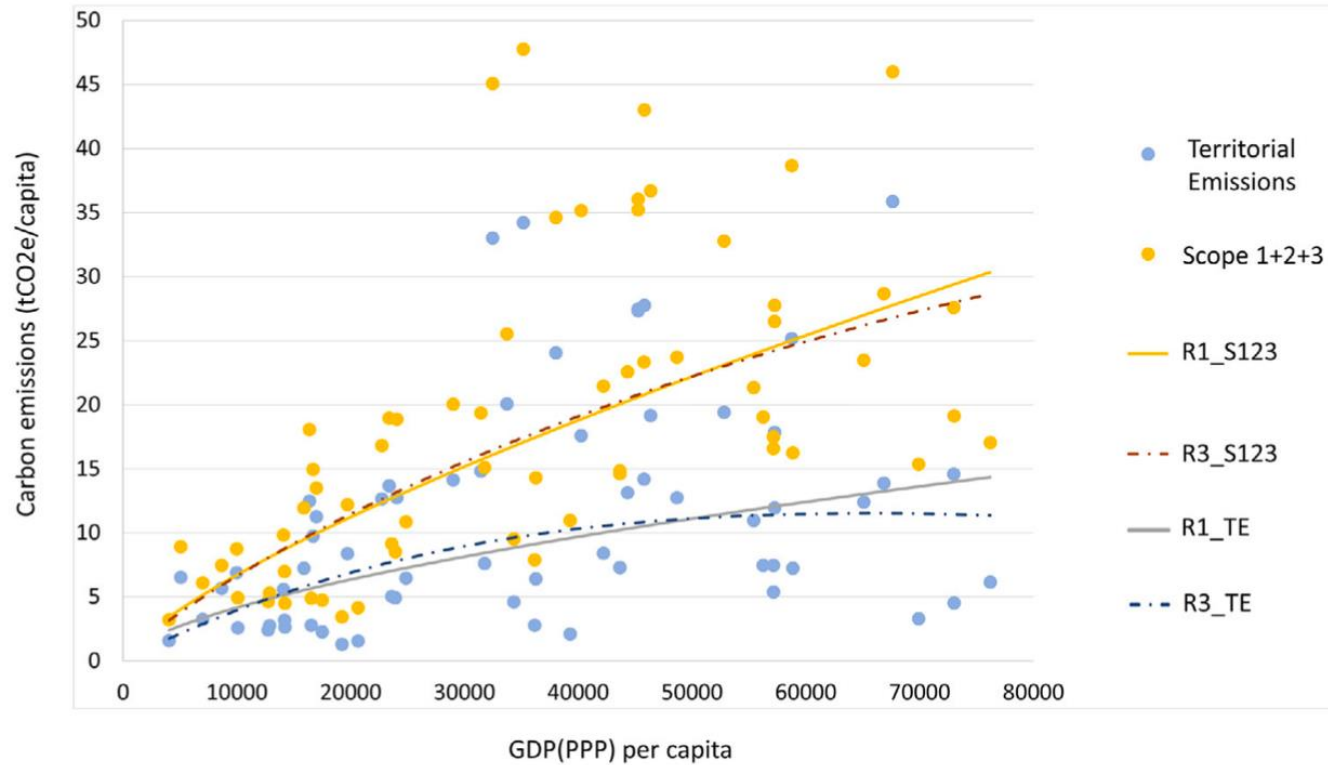


Why should cities measure indirect emissions?





Why should cities measure indirect emissions?





What does it support?

- Increases opportunities for GHG mitigation actions
- Supports ambitious EU Green Deal targets
- Informs Circular Economy (CE) monitoring and targets
- Provides holistic GHG assessments and benchmarks
- Avoids burden shifting (e.g. in building retrofits)





Who does it benefit?

- Cities who are unable to report on emission reductions achieved through a broad range of actions
- “Producer” cities and key transportation hubs
- Cities working on circular economy actions
- Cities which deal with high tourism
- Cities with political targets associated to human health
- Cities which have already addresses their territorial emissions





“An **exhaustive** full picture is not necessary to begin transforming knowledge to **actions**.”





1. Identify Hotspots

Focus on key consumption areas like buildings, food, and transport.

2. Leverage Data

Use national statistics, consumer surveys, and other existing data.

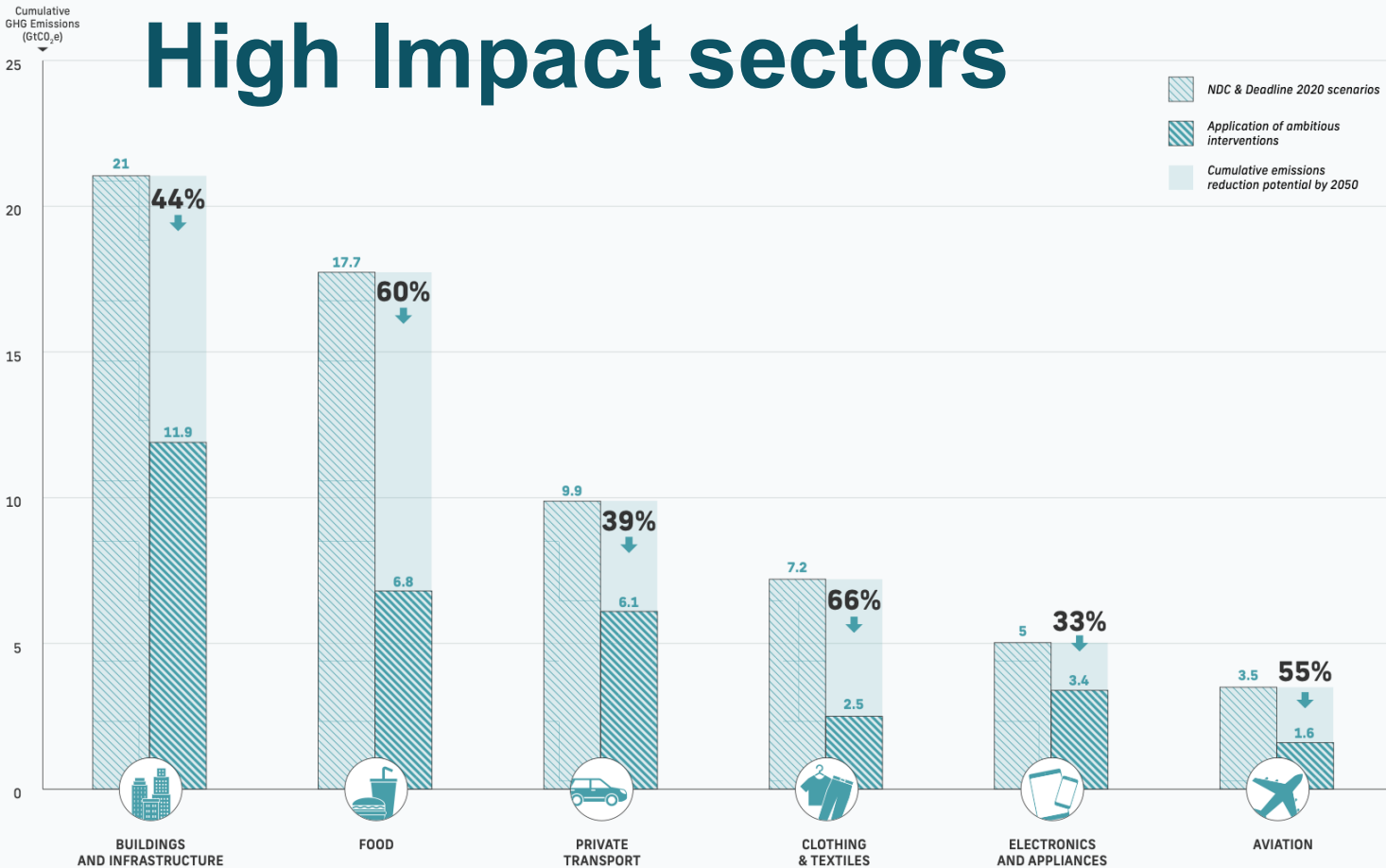
3. Collaborate

Work with businesses, researchers, and other governments.





High Impact sectors



1. Buildings and infrastructure
2. Food
3. Private transport
4. Clothing & textiles
5. Electronics and appliances
6. Aviation

Source: C40 Cities, ARUP, & University of Leeds. (2019). *The future of urban consumption is a 1.5°C world*. (p. 70).





Actions on buildings

- Set circular economy criteria in tenders
- Promote low carbon materials
- Update codes for material efficiency
- Intencivise retrofits to extend building lifespans





Breakout: City level actions



- What can cities do about indirect emissions that are within their scope of influence?





City level actions: breakout rooms

Group 1

As a municipality

Group 2

As a citizen





City level actions: breakout rooms



What emission sources can you identify in the FOOD sector?



What can you do to reduce these emissions?



Actions on Food

- Use public procurement for plant-based food
- Create certification schemes for businesses to prioritise low-carbon criteria
- Launch campaigns to reduce food waste
- Support local retailers in stocking sustainable options



City level actions: Food

Public Catering & Dietary Transition

Plant-Based Targets: Amsterdam targets a shift to **60% plant-based proteins** by 2030. **Oslo** mandates serving **only vegetarian options** for city meetings/catering and aims to halve meat use in municipal canteens.

- **Public Procurement: Paris** aims for **100% vegetarian and organic catering** in public services by 2030 and offers vegetarian meals as the exclusive option on Wednesdays in public catering.
- **Reducing Climate Impact: Stockholm** is implementing systematic work to **reduce the climate impact of public meals** (serving 180,000 daily portions) by increasing the proportion of vegetables and introducing more vegetarian food.





City level actions: Food

Food Waste Reduction

- **50% Reduction Goal: Amsterdam, Oslo, and Paris** all aim to achieve a **50% reduction in food waste** by 2030 in their respective jurisdictions or municipal operations.
- **Organic Waste Management: Guimarães** launched a selective collection system for **organic waste** and introduced the '**Save As You Recycle**' (**SAYR**) financial incentive program to reward residents for separating biowaste or composting at home.



City level actions: Food

Sourcing and Local Food

- **Local Sourcing: Paris** plans to organize **short circuit food supply chains** and advocates for reforms to ensure that 60% of food is sourced locally (within 250 km).
- **Urban Agriculture: Oslo** supports and funds **urban agriculture** initiatives, including establishing more allotment gardens and expanding cultivation in schools.
- **Consumer Incentives: Copenhagen** rewards tourists who choose sustainable actions, such as selecting vegetarian meal options, through its **CopenPay** initiative.



Taking action without inventories

Map existing actions and policies

Define extended impact indicators

Focus on procurement

Assess the municipality as a company

Conduct a city-scale urban Material Flow Analysis (MFA)

Identifying local levers for change

Foster partnership

Pilot projects at neighbourhood level

Start with a Sectoral Focus





Q&A



Related NetZeroCites Portal Groups

[Design Your City's Net Zero Strategy: Online Planning Lab](#)

[Group 02](#)

[Group 03](#)



Related Activities

- NetZeroCities Twinning Learning Program
- C40 cities support tool
- SEI Consumption Compass Tool
- Scope 3 guidance report by the JRC 2026





Next Sessions

<https://netzerocities.app/resource-4501>

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Online Planning Lab. Feedback
Form Module 4 Spotlight 5



Feedback

Please take a moment to give us your
feedback!



Get in touch with NetZeroCities!

NetZeroCities Help Desk: infocities@netzerocities.eu



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