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WP1 City needs and data for services with impact Block II

PAUL project – review meeting 6/2023

Achieved, current planned, action items

ICOS Cities, aka Pilot Applications in Urban Landscapes - Towards integrated city observatories for greenhouse gases (PAUL), has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 101037319

City needs and data for services with impact

WP1 two main objectives:

1. To collect, unlock and harmonize prior information on city infrastructure and emissions needed in WP2 and WP5.

- Task 1.1 State-of-the-art city emission inventories

2. To investigate relevant services the city observatory should provide to answer the needs of cities in terms of estimation of their GHG emissions and implementation of their climate policies.

- Task 1.2 Science-Technology Policy Governance and Emissions Data: Information and policy needs of the pilot cities
- Task 1.3 The human dimension of climate policies: economic and behavioural impacts
- Task 1.4 Co-design of service prototypes

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Work Package 1 Task 1.2

Science–technology policy governance and emissions data - Information and policy needs of the pilot cities

Prof. Dr. Miranda Schreurs, Ana Maria Isidoro Losada, Barbara Dias Carneiro, Jessica Dolan

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Achievements to date

Aug ’22

Submitted MS1 on climate governance structures

Sep ’22

Project-internal interviews

Preparations for external interviews

Oct/Nov ’22

Sent first interview invites to city stakeholders

Attended relevant events

Provided summaries of climate plans

Feb ’23

14 interviews conducted and transcribed

Mar/ April ’23

First analysis of interviews completed

Master’s thesis completed

May / June ’23

Continued interview analysis

Sent Paris invitations

Prepared 2nd phase interview questions

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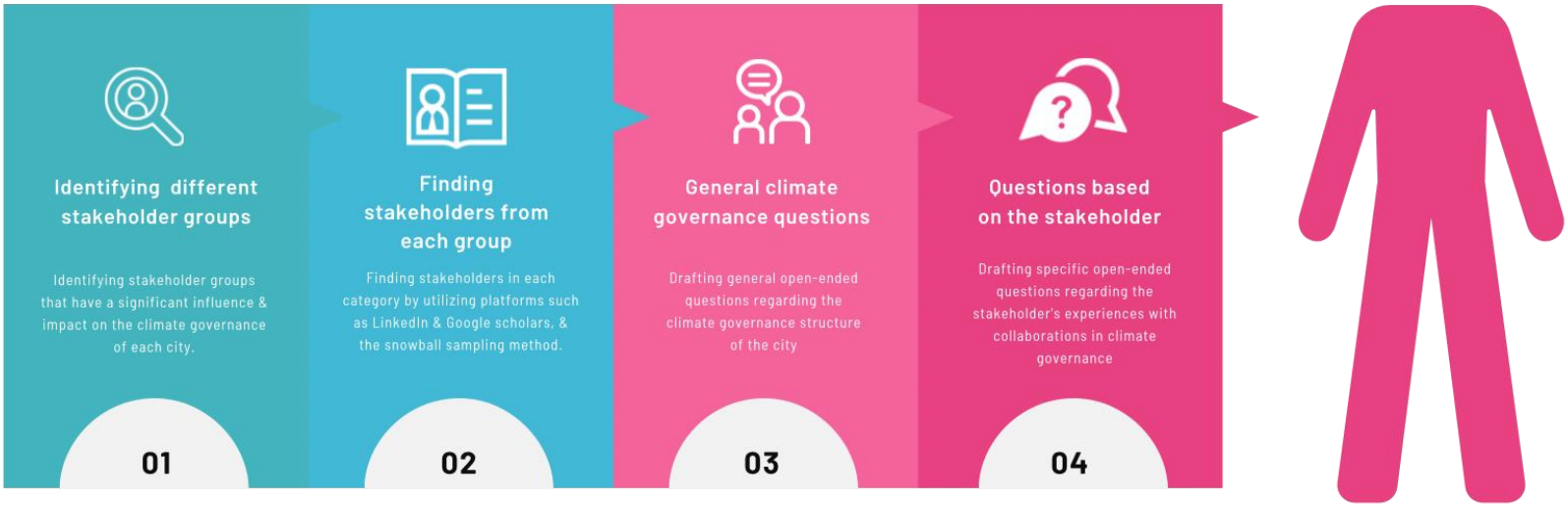
Interview preparations



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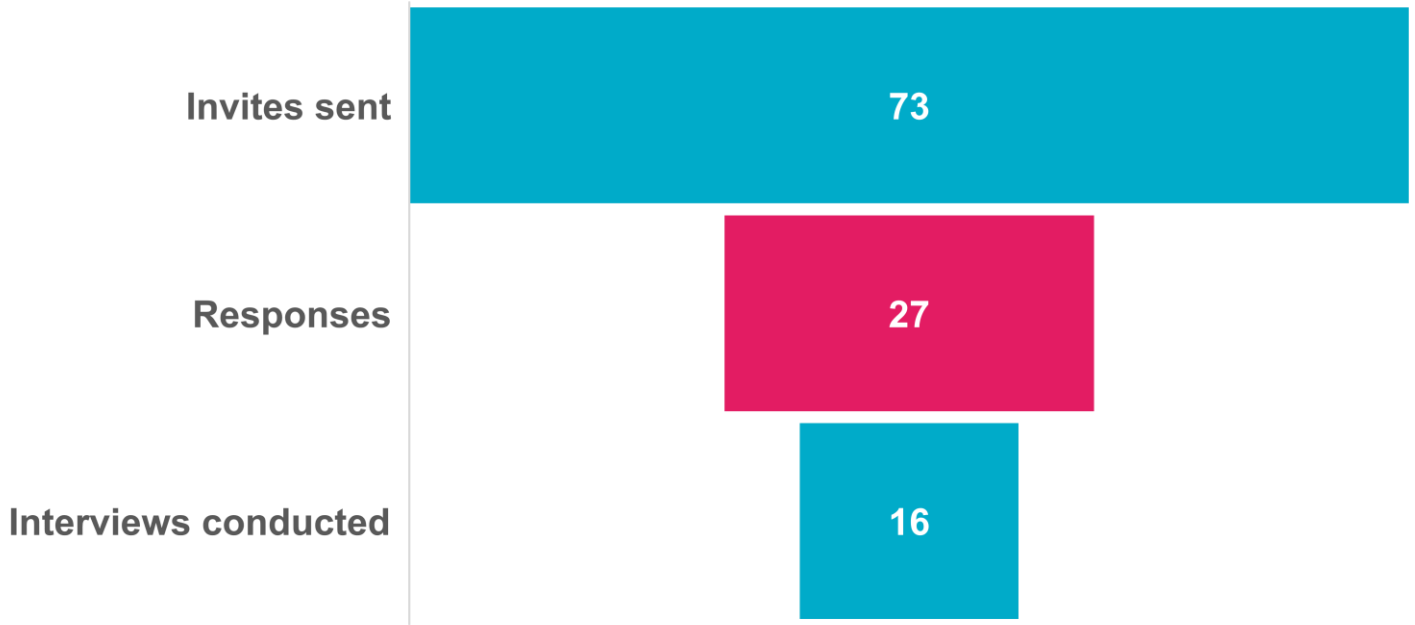
Response rate



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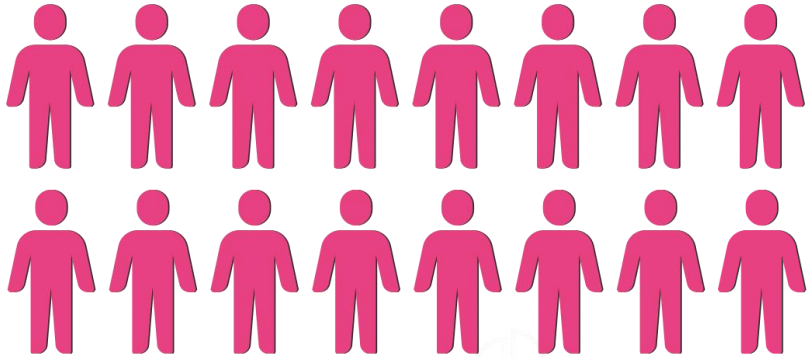
Progress on Interviews



16 stakeholders interviewed

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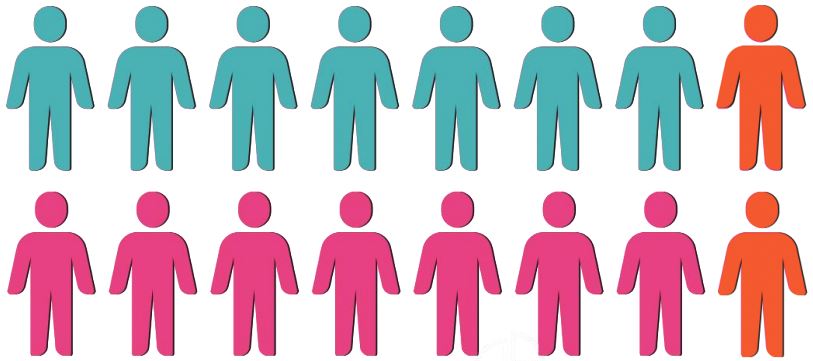
Progress on Interviews



7 stakeholders from Munich

7 stakeholders from Zurich

2 stakeholders from Paris

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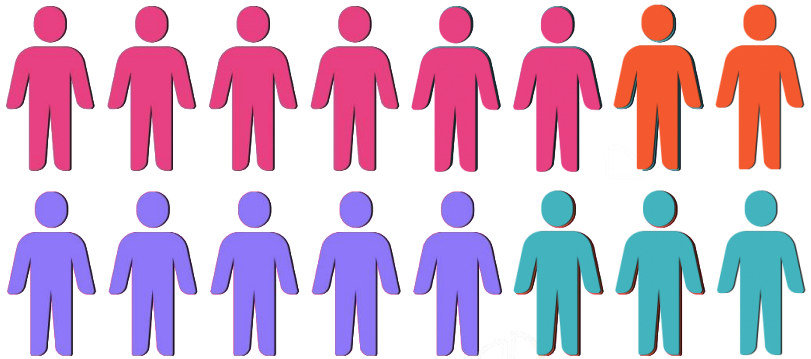
Progress on Interviews



6 business 2 civil society

5 city administration 3 academics

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Progress on Interviews

Stadt Zürich Umwelt- und Gesundheitsschutz

Landeshauptstadt München Referat für Klima- und Umweltschutz

ifeu Institut für Energie- und Umweltforschung Heidelberg

Circular Munich

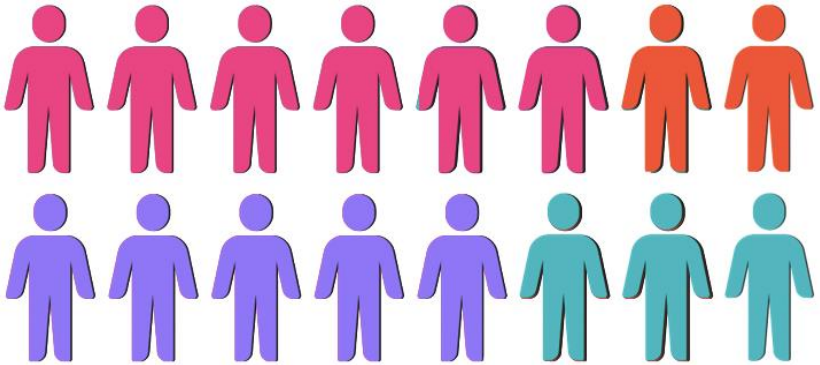
Münchner Klima Herbst

Change Corporation München · Hamburg

Grüne Les Vert·e·s gruene.ch/verts.ch

ZU KUNFTS WERK

Empa Materials Science and Technology



ETH zürich

Gemeinwohl Ökonomie Ein Wirtschaftsmodell mit Zukunft Bayern

Students For Future München

INFRAS

6 business 2 civil society

5 city administration 3 academics

15+ organisations

GREEN CITY EXPERIENCE

Netzwerk Saubere Energie München

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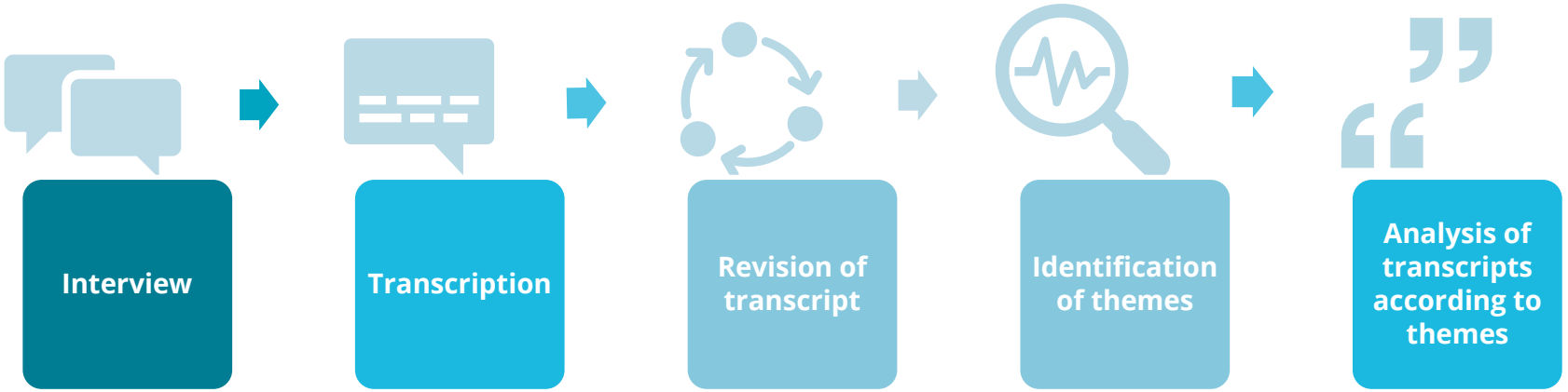
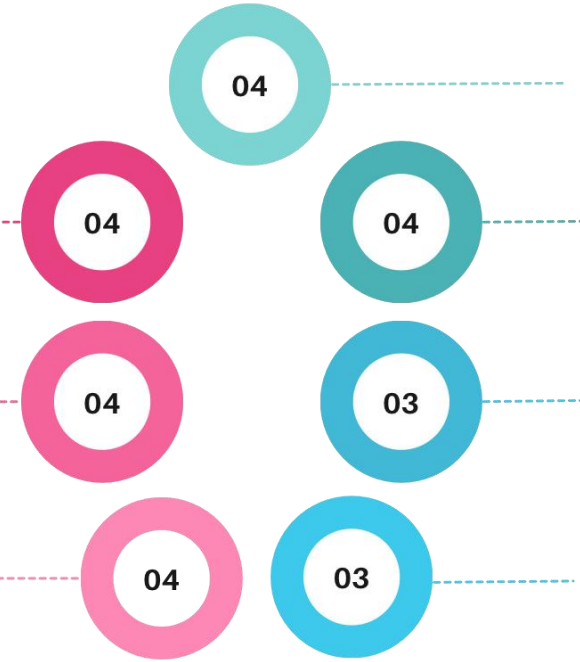
Post-interview methodology



Themes Identified



Intergovernmental

Collaborations between different levels of government or different departments

Climate Strikes

Were mentioned as a turning point for the city's climate governance

Business & City

Collaborations between businesses & the city administration

Multi-stakeholder participation formats

Were identified in both cities

Science & City

Collaborations between science & the city administration

Civil Society & City

Collaborations between civil society & the city administration

City to City

Networks & collaborations between different cities

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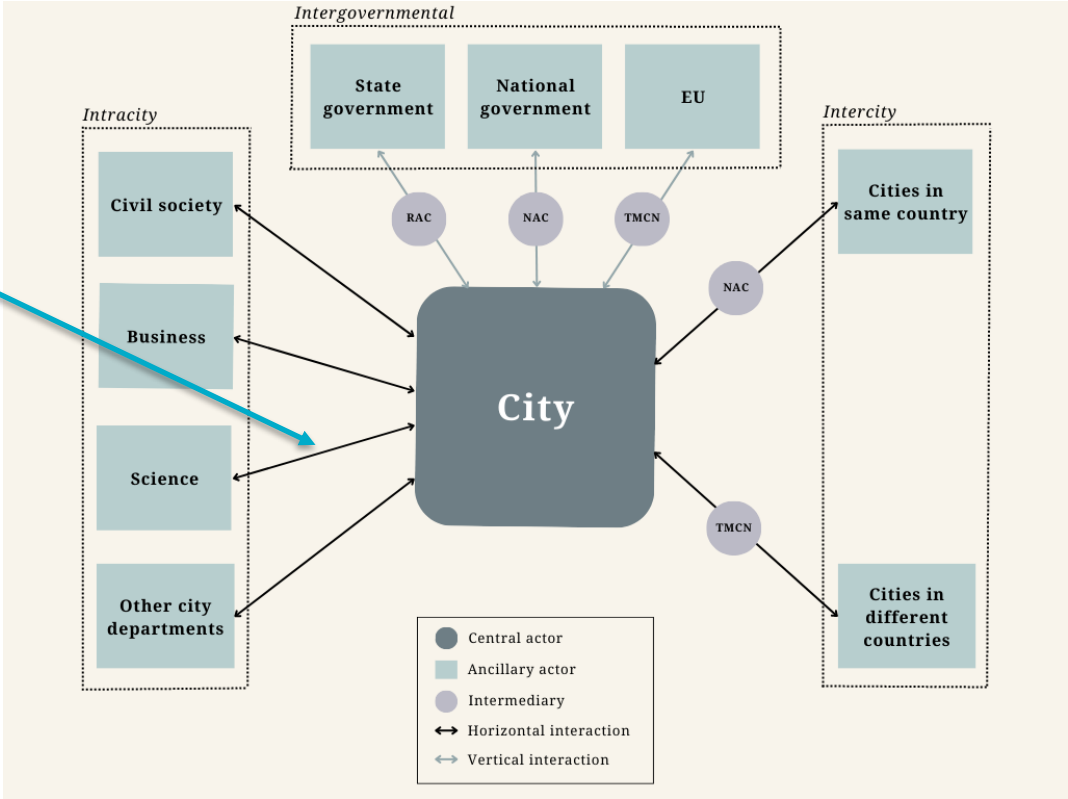
Multi-level climate governance

PAUL?



Source: Jessica Dolan

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Current and next steps

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Work Package 1 Task 1.3

Task 1.3 The human dimension of climate policies: economic and behavioural impacts

Led by European Social Survey ERIC

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Objectives and methodology of Task 1.3

- The objective of Task 1.3 is to bring in the human dimension in the measurement of green gas gases. ESS ERIC will feed findings regarding human attitudes behind generating and controlling greenhouse emissions, and make the (survey) data available to the broader research community.
- This dimension is infused by implementing a three-wave online survey in the pilot city observatories in Paris and Munich. The gross sample is of 2,500.
- By M18 of the PAUL project, preparations for the launch of wave 1 in both countries has been achieved. There were no deviations during the reporting period.
- The questionnaire is ready and has been translated into German and French. Invitation letters have been dispatched to a named sample to join the survey, unconditional 5 euro incentive. Follow up waves recontact respondents after their explicit agreement to recontact.
- ESS ERIC is a distributed research infrastructure. Six ESS teams will collaborate in this project, namely: Core Scientific Team: City University (HQ, London), Universitat Pompeu Fabra (Barcelona, Coordination and questionnaire design), Essex University (Essex, Sampling and weighting), ESS Archive at Sikt (Bergen).
- National teams: Germany (GESIS), France (Sciences Po)

Timeline of Task 1.3 (I)

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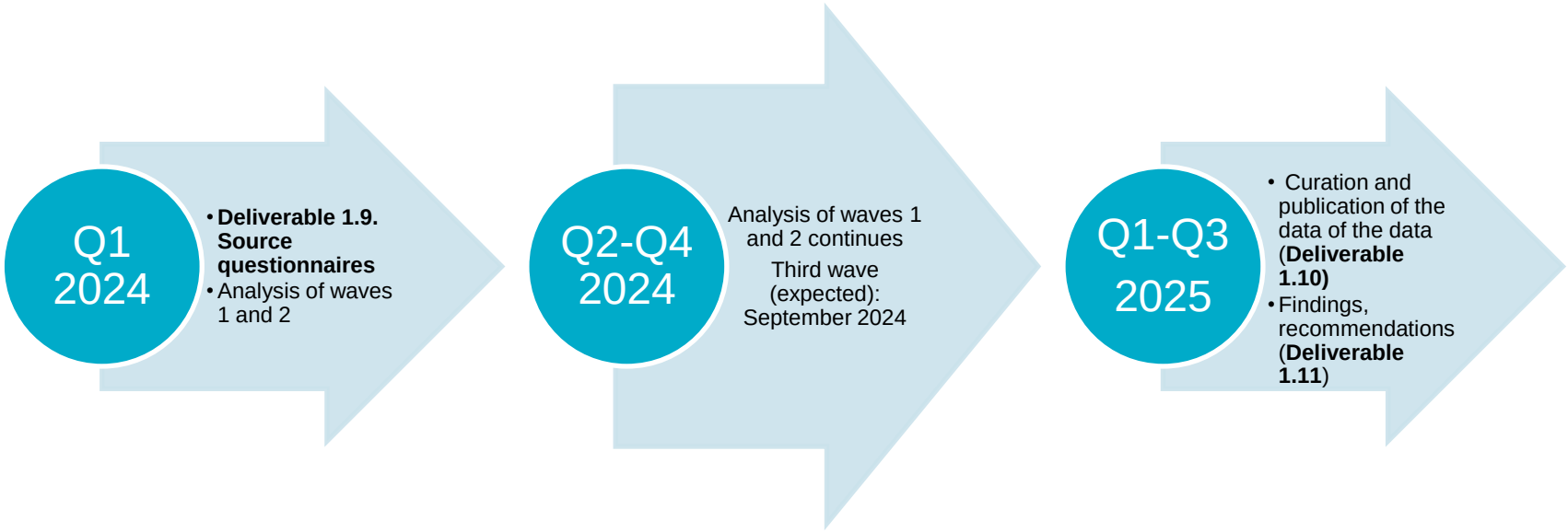
Timeline of Task 1.3 (II)



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Work Package 1 / Task 1.4

Task 1.4 – Status after 18 months

Task 1.4 (lead: Aalto University) – Co-design of service prototypes:

The aim of this task is to assess the emission related urban services and to design improved service concepts for the use of major European cities.

Task 1.4 develops new service prototypes demonstrating the potential of the project in pilot and PAUL city network context, and also refines a methodology for service development for the use of other cities and other needs identified in the process.

Task 1.4 work in 2022–2023:

- **Sub-task 1.4.1: Front-end research – benchmarking and evaluating existing services**
- Research activities have included 13 x expert interviews within project network inc. pilot city representatives, supported with literature research and online service benchmarking
- Work concluded in Feb 2023 by submitting a *report on evaluation and benchmarking of existing services for monitoring of CO2 emissions in cities* (Deliverable 1.12)
- Dissemination of results in ICOS Talks online seminar on June 14th, 2023

Benchmarking results – typology for service development:

Service focus	Target users, stakeholders	Purposes	Connection to monitoring data
Real-time spatial CO2 monitoring	Researchers; Private sector intermediaries	(Near) real-time monitoring data made available for different purposes	Connected to (near) real-time data on CO2 fluxes
CO2 data translation into impact inventories	City planners, policy development; Researchers; Private sector intermediaries	Improved and harmonized impact inventories are crucial in improving assessment	Based on data through research and modelling
Climate plan action progress monitoring	City planners, policy development; General public	Monitoring data helps to assess the success of specific climate plan actions	Data only indirectly connected to indicators which are gradually refined based on monitoring data
Scenario tools	City planners, policy development; Private sector, intermediaries	Monitoring data helps to improve impact assessments for scenario comparisons	Data only indirectly connected
Impact assessment services	City planners, policy development; Private sector, intermediaries; General public	Monitoring data helps to improve impact assessments of various kinds	Data only indirectly connected
Compensation services	Private sector, intermediaries	Monitoring data helps to improve compensation services and their impact data	Data only indirectly connected

Task 1.4 – Plans for the next period

Task 1.4 workplan for 2023–2025:

In 2023–2024, the focus in work in Task 1.4 is on initiating various stakeholder activities to ideate services for different purposes and interest areas

- **Sub-task 1.4.2 – Exploration and ideation (until Spring 2024):**
  – *Workshops with stakeholders; deliverable a report on services and design approach*
- **Deliverable 1.13 – Report on preliminary outcomes of co-design workshops** (M30, June 2024)

In 2024–2025, the focus is on validating results, refining prototypes, and developing a (digital) service portfolio.

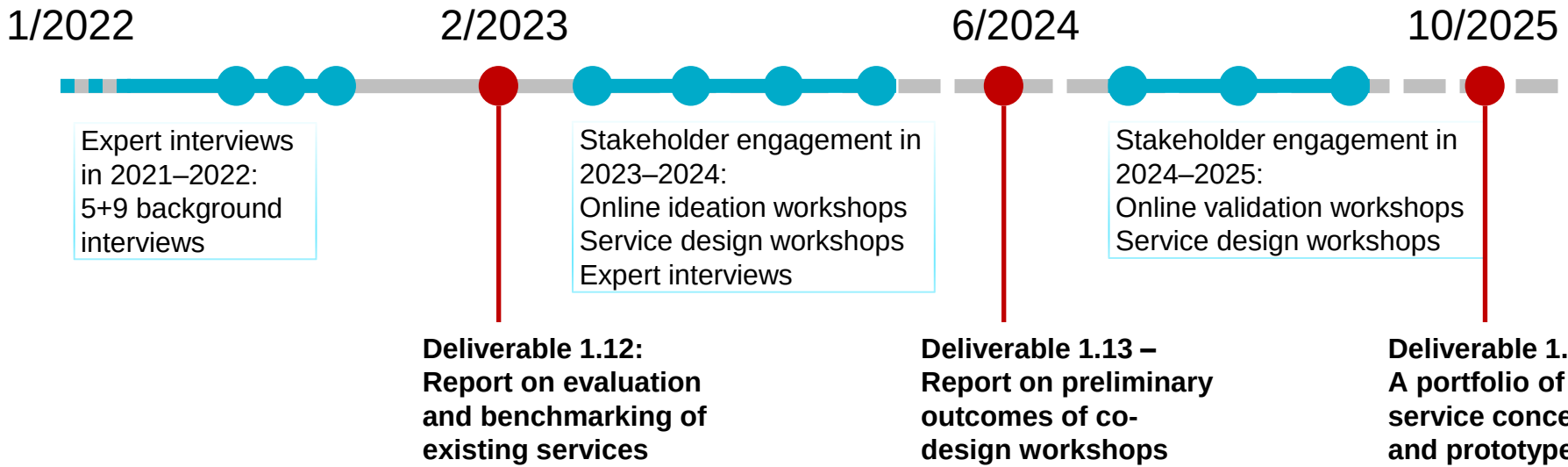
- **Sub-task 1.4.3 – Service prototyping (due in Fall 2025):**
  – *Workshops with stakeholders; deliverable a portfolio of services*
- **Deliverable 1.14 – A portfolio of service concepts and prototypes for monitoring of CO2 emissions in cities** (M46, October 2025)

Dissemination, preparation of scientific articles:

Current focus on Deliverable 1.12 findings; Later in stakeholder interaction and service prototypes

Task 1.4 – Timeline

Timeline for Task 1.4 activities:



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