# NET ZERO CITIES

## EU MISSION PLATFORM

## CLIMATE NEUTRAL AND SMART CITIES

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NET ZERO CITIES

EU MISSION PLATFORM | CLIMATE NEUTRAL AND SMART CITIES

# EU CITIES MISSION

# Action plan

## Webinar

October 2022

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# Agenda

| | |
|---|---|
| **14:00-14:05** | **Welcome and Introduction**<br>Thomas Osdoba – Climate KIC |
| **14:05-14:25** | **Walk-through of Action Plan Template**<br>Nikolai Jacobi – ICLEI Europe |
| **14:25-14:40** | **Operationalizing Impact Pathways**<br>Nikhil Chaudhary – Climate KIC |
| **14:40-14:55** | **Action planning: key methods and activities**<br>Ghazal Etminan & Wolfgang Loibl - AIT |
| **14:55-15:25** | *Break-out (parallel sessions – 1 round á 30 min., cities can choose)*<br>**Part A: Current State Assessment**<br>**Part B: Portfolios of action**<br>**Part C: Social innovation, governance and finance** |
| **15:25-15:45** | **Reports from break-out groups and open Q&A**<br>Group facilitators |
| **15:45-15:55** | **Mission Label**<br>European Commission |
| **15:55-16:00** | **Wrap-up and Outlook**<br>Thomas Osdoba – Climate KIC |
| **16:00** | End of webinar |

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# Walk-through of Action Plan Template

**Nikolai Jacobi / ICLEI Europe**
Senior Officer – Energy, Materials and Built Infrastructure

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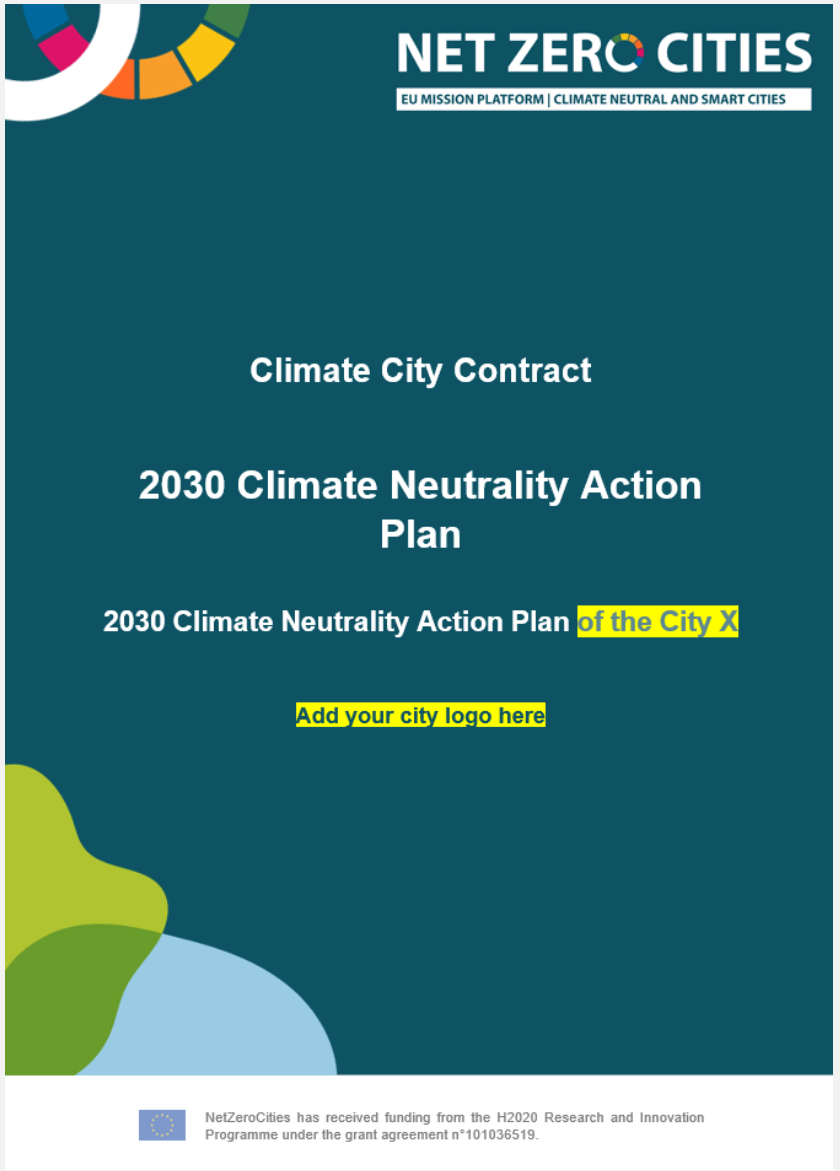
# 2030 **Climate** Neutrality **Action Plan**

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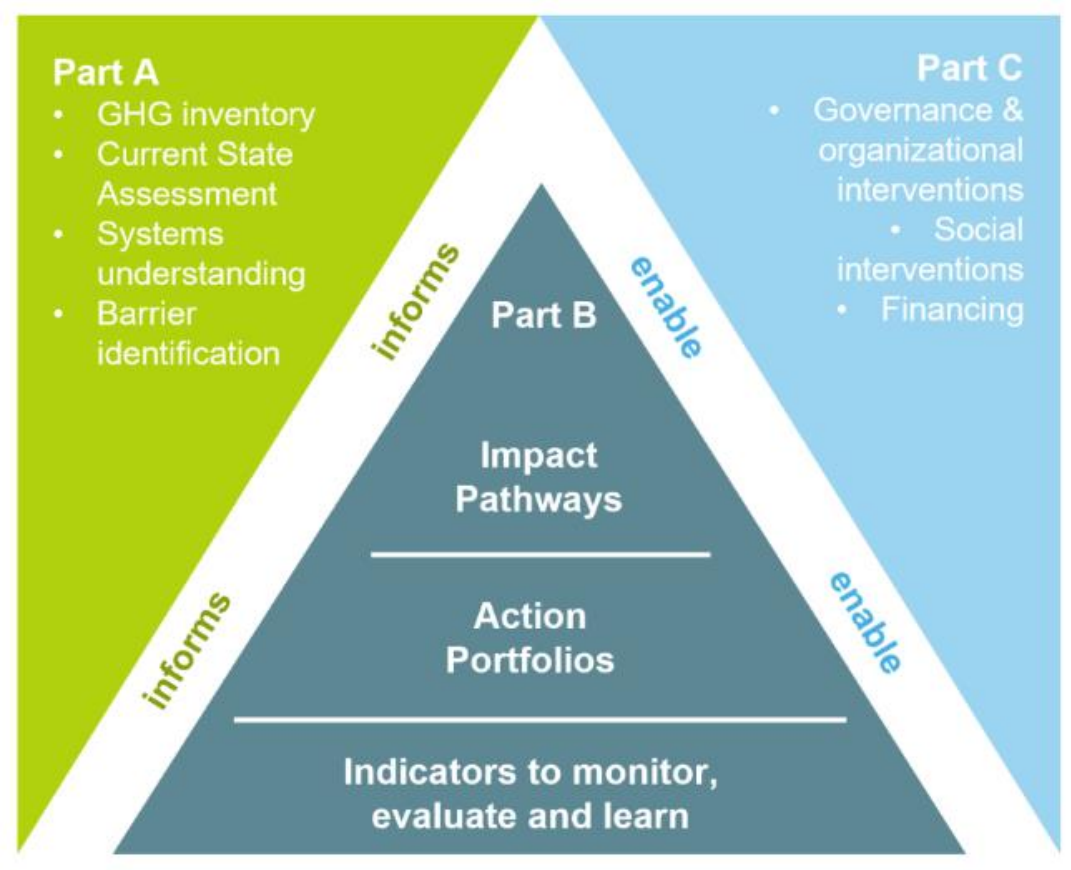
# **Action Plan** Outline




**Part A - Current State of Climate Action**

| | | |
|---|---|---|
| **Module A-1** Greenhouse Gas Baseline Inventory | **Module A-2** Current Policies and Strategies Assessment | **Module A-3** Systemic Barriers to 2030 Climate Neutrality |

**Part B - Pathways towards Climate Neutrality by 2030**

| | | |
|---|---|---|
| **Module B-1** Climate Neutrality Scenarios and Impact Pathways | **Module B-2** Climate Neutrality Portfolio Description | **Module B-3** Indicators for Monitoring, Evaluation and Learning |

**Part C - Enabling Climate Neutrality by 2030**

| | | |
|---|---|---|
| **Module C-1** Organisational and Governance Innovation Interventions | **Module C-2** Social and Other Innovation Interventions | **Module C-3** Financing of Action Portfolio |

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# **Action Plan** Design Principles

- Building on **existing strategies**, plans and processes
- Rooting in **multi-level governance** and deep stakeholder and citizen engagement
- Embracing **data-driven analysis**, decision-making, and visualization
- Using a **portfolio approach** to design, cluster and interlink climate actions
- Offering a **flexible** and modular guide
- Providing a solid foundation and **clear direction**
- The 2030 Climate Neutrality Action Plan is a **living document**

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# Part A – Current State of Climate Action

**Part A "Current State of Climate Action"** describes the point of departure of the city towards climate neutrality, including commitments and strategies of key local businesses, and informs the subsequent modules and the outlined pathways to accelerated climate action.

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# **Module A-1:** Greenhouse Gas Emissions Baseline Inventory

**Outline:** Module A-1 “Greenhouse Gas Emissions Baseline Inventory” should detail and describe the city’s latest GHG inventory to establish the emission baseline and to establish the emissions gap to 2030 climate neutrality according to the inventory specifications defined in the Cities Mission’s Info Kit for Cities.

**Module A-1 covers:**

- A-1.1: Final energy use by source sector
- A-1.2: Emission factors applied
- A-1.3: Activity by source sector
- A-1.4: GHG emissions by source sector
- A-1.5: Graphics and charts
- A-1.6: Description and assessment of GHG inventory

**Examples/ Notes:**

- GHG baseline inventories should cover emission sectors, gases and scopes as specific in the Mission Info Kit.
- The Mission will work with My Covenant & CDP/ICLEI to facilitate both reporting of baseline and monitoring inventories
- New/adapted GHG baseline inventories will need to be submitted in case there has been none reported yet, if the reported one is non-conform with Mission specifications, or if accounting year is older than 2018.

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# **Module A-1:** Greenhouse Gas Emissions Baseline Inventory

| **A-1.1: Final energy use by source sectors** | | | | |
|---|---|---|---|---|
| Base year | | | | |
| Unit | MWh/year | | | |
| | Scope 1 | Scope 2 | Scope 3 | Total |
| Buildings | | | | |
| (Fuel type/ energy used) | | | | |
| Transport | | | | |
| (Fuel type/ energy used) | | | | |
| Waste | | | | |
| (Fuel type/ energy used) | | | | |
| Industrial Process and Product Use (IPPU) | | | | |
| (Fuel type/ energy used) | | | | |
| Agricultural, Forestry and Land Use (AFOLU) | | | | |
| (Fuel type/ energy used) | | | | |

| **A-1.2: Emission factors applied** | | | | | | |
|---|---|---|---|---|---|---|
| (please specify for primary energy type and GHG emission factor according to methodology used) | | | | | | |
| For calculation in t or MWh of primary energy | | | | | | |
| (Please indicate method used, e.g. GPC, IPCC, CRF, national etc.) | | | | | | |
| Primary energy/ energy source | Carbon Dioxide ($CO_2$) | Methane ($CH_4$) | Nitrous Oxide ($N_2O$) | F-gases (hydrofluorocarbons and perfluorocarbons) | Sulphur hexafluoride ($SF_6$) | Nitrogen trifluoride ($NF_3$) |
| … | … | … | … | … | … | …. |

| **A-1.3: Activity by source sectors** | | | |
|---|---|---|---|
| Base year | | | |
| | Scope 1 | Scope 2 | Scope 3 |
| Buildings | | | |
| (Activity) | | | |
| Transport | | | |
| (Activity) | | | |
| Waste | | | |
| (Activity) | | | |
| Industrial Process and Product Use (IPPU) | | | |
| (Activity) | | | |
| Agricultural, Forestry and Land Use (AFOLU) | | | |
| (Activity) | | | |

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# **Module A-1:** Greenhouse Gas Emissions Baseline Inventory

| **A-1.4: GHG emissions by source sectors** | | | | |
|---|---|---|---|---|
| Base year | | | | |
| Unit | CO2equivalent/year | | | |
| | Scope 1 | Scope 2 | Scope 3 | Total |
| Buildings | | | | |
| Transport | | | | |
| Waste | | | | |
| Industrial Process and Product Use (IPPU) | | | | |
| Agricultural, Forestry and Land Use (AFOLU) | | | | |
| Total | | | | |

| **A-1.5: Graphics and charts** |
|---|
| (Please include visualisations of GHG emissions baseline) |

| **A-1.6: Description and assessment of GHG baseline inventory** |
|---|
| (Describe, assess, contextualise tables and charts above) |

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# **Module A-2:** Current Policies and Strategies Assessment

**Outline:** Module A-2 “Current Policies and Strategies” should list relevant policies, strategies, initiatives or regulation from local, regional and national level, relevant to the city’s climate neutrality transition. Based on these and the baseline inventory outlined in Module A-1, this module should also identify the “emissions gap” as the gap towards climate neutrality 2030 to be addressed by the Action Plan.

**Module A-1 covers:**

- A-2.1: List of relevant policies, strategies and regulations
- A-2.2: Descriptive assessment of policies, strategies and regulations
- A-2.3: Emissions gap

**Examples/ Notes:**

- Examples for local relevant policies to list include, climate and energy action plans/strategies, other plans, e.g. for urban greening, waste etc., spatial planning regulations.
- Regional/national: include e.g. regulations related to construction, energy generation, finance and investment etc.
- Other impacting framework conditions

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# **Module A-2:** Current Policies and Strategies Assessment

| A-2.1: List of relevant policies, strategies & regulations | | | | | |
|---|---|---|---|---|---|
| Type | Level | Name & Title | Description | Relevance | Need for action |
| (regulation/ policy/ strategy/ action plan | (local, regional, national, EU) | (Name of policy/ strategy/ plans) | (Description of policy/ strategy/ plans) | (Describe relevance/ impact on climate neutrality ambition) | (list any suggested action in relation – to be further picked in Module C-1) |
| … | … | … | … | … | … |

| A-2.2: Description & assessment of policies |
|---|
| (describe and assess listed policies, strategies, regulations etc. to add detail) |

| A-2.3: Emissions gap | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Baseline emissions (percentage) | | Residual emissions / offestting[1] | | Baseline emissions reduction target[2] | | Emissions reductions in existing strategies[3] | | Emissions gap (to be addressed by action plan)[4] | |
| | (absolute) | (%) | (absolute) | (%) | (absolute) | (%) | (absolute) | (%) | (absolute) | (%) |
| Buildings | | | | | | | | | | |
| Transport | | | | | | | | | | |
| Waste | | | | | | | | | | |
| Industrial Process and Product Use (IPPU) | | | | | | | | | | |
| Agricultural, Forestry and Land Use (AFOLU) | | | | | | | | | | |
| Total | | | | | | | | | | |

[1] Residual emissions consist of those emissions which can't be reduced through climate action and are being offset. Residual emission may amount to a maximum of 20 % as stated by the Mission Info Kit.
[2] Baseline reduction target = Baseline emissions – residual emissions.
[3] Emission reductions planned for in existing action planning and strategies should be quantified per sector.
[4] Emissions gap = Baseline emission reduction target – Emissions reduction in existing strategies.

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# **Module A-3:** Systemic Barriers and Opportunities to 2030 Climate Neutrality

**Outline:** Module A-3 “Systemic Barriers to 2030 Climate Neutrality” should document the results of the stakeholder, systems and ecosystem mapping and identification of systemic barriers and opportunities.

**Module A-1 covers:**

- A-3.1: Systems and stakeholder mapping
- A-3.2: Descriptive assessment of systemic barriers and opportunities for climate neutrality
- A-3:3: Description/visualization of participatory model for climate neutrality

**Examples/ Notes:**

- Wide systems definition. Systems include e.g. infrastructural (public transport), entrepreneurial (branch guild, association etc.), social (school systems).
- The participatory model should provide a visual representation (e.g. map) of systems and stakeholders and what principle tangents of engagement and collaboration are.

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# **Module A-3:** Systemic Barriers and Opportunities to 2030 Climate Neutrality

| **A-3.1: Systems & stakeholder mapping** | | | | |
|---|---|---|---|---|
| (Fill out according to AP Guidance) – e.g. | | | | |
| System description | Stakeholders involved | Network | Influence | Interest |
| … | … | … | … | … |

| **A-3.2: Description of systemic barriers – textual elements** |
|---|
| (Please fill out according to the Action Plan Guidance) |

| **A-3.3: Description or visualisation of participatory model for the city climate neutrality – textual and visual elements** |
|---|
| (Please fill out according to the Action Plan Guidance) |

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# Part B – Pathways towards Climate Neutrality by 2030

**Part B** represents the core of the Action Plan, shaped by local authorities, local businesses and stakeholders, comprising of the most essential elements: impact pathways, strategic objectives, action portfolios and indicators for monitoring, evaluation and learning.

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# **Module B-1:** Climate Neutrality Scenarios and Impact Pathways

**Outline:** Module B-1 “Climate Neutrality Scenarios and Impact Pathways” should list systemic levers, early and late outcomes and direct and indirect impacts (co-benefits) (NZC Theory of Change)

**Module A-1 covers:**

- B-1.1: Impact pathways
- B-1.2: Description of impact pathways

**Examples/ Notes:**

- The impact pathways with its pre-identified levers for change, early and late outcomes and ultimately direct and indirect impacts, are not meant to be prescriptive, but are an instrument to structure the Action Plan to make sure its coherent designed actions are supporting strategic objectives towards net zero 2030.

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# **Module B-1:** Climate Neutrality Scenarios and Impact Pathways

| **B-1.1: Impact Pathways** | | | | | |
|---|---|---|---|---|---|
| Fields of action | Systemic levers | Early changes (1-2 years) | Late outcomes (3-4 years) | Direct impacts (Emission reductions | Indirect impacts (co-benefits) |
| Energy systems | (Lever #1) | (Early change #1) | (Late outcome #1) | (direct impact #1) | (indirect impact #1) |
| | | (Early change #2) | (Late Outcome #2) | | |
| | | (list more changes as needed) | (list more late outcomes as needed) | (list more direct impacts as needed) | (list more indirect impacts as needed) |
| | (list more levers as needed) | … | … | … | … |
| (apply structure above for each emission domain) | | | | | |
| Mobility & transport | | | | | |
| | | | | | |
| Waste & circular economy | | | | | |
| | | | | | |
| Green infrastructure & nature based solutions | | | | | |
| | | | | | |
| Built environment | | | | | |
| | | | | | |
| **B-1.2: Description of impact pathways– textual and visual elements** | | | | | |
| (Describe, visualise and contextualise pathways listed above) | | | | | |

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# **Module B-2:** Climate Neutrality Portfolio Design

**Outline:** Module B-2 “Climate Neutrality Portfolio Design” should contain a project description for each intervention planned, including those interventions targeted at enhancing carbon sinks to address residual emissions.

**Module A-1 covers:**

- B-2.1: Description of action portfolios
- B-2.2: Individual action outline
- B-2.3: Summary of strategy/actions for residual emissions

**Examples/ Notes:**

- Actions developed should address the emissions gap (A-2)
- Actions should be developed and grouped per field of action
- Actions developed should include all types of interventions that are directed at achieving a certain direct impact (emission reduction) and/or indirect impact (co-benefits)
- Excluded are interventions addressing the social and governance-related framework conditions for climate neutrality. Those are covered elsewhere in the Action Plan.
- Actions should be developed in line with the portfolio approach suggested by NZC (reference to separate webinar)

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# **Module B-2:** Climate Neutrality Portfolio Design

| B-2.1: Description of action portfolios - textual or visual | | |
|---|---|---|
| Fields of action | Portfolio description | |
| | List of actions | Descriptions |
| Energy systems | | |
| Mobility & transport | | |
| Waste & circular economy | | |
| Green infrastructure & nature based solutions | | |
| Built environment | | |

| B-2.2: Individual action outlines | | |
|---|---|---|
| (fill out one sheet per intervention/project) | | |
| Action outline | Action name | |
| | Action type | |
| | Action description | |
| Reference to impact pathway | Field of action | |
| | Systemic lever | |
| | Outcome (according to module B-1.1) | |
| Implementation | Responsible bodies/person for implementation | |
| | Action scale & addressed entities | |
| | Involved stakeholders | |
| | Comments on implementation | |
| Impact & cost | Generated renewable energy (if applicable) | |
| | Removed/substituted energy, volume or fuel type | |
| | GHG emissions reduction estimate (total) per emission source sector | |
| | Total costs and costs by CO2e unit | |

| B-2.3: Summary strategy for residual emissions |
|---|
| (Detail how residual emission will be offset, if applicable) |

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# **Module B-3:** Indicators for Monitoring, Evaluation and Learning

**Outline:** Module B-3 “Indicators for Monitoring, Evaluation and Learning” should mainly contain a selection of indicators taken from the Comprehensive Indicator Sets developed by NZC per selected outcome or impact.

**Module A-1 covers:**

- B-3.1: Evaluation summary
- B-3.2: Indicator metadata

**Examples/ Notes:**

- Indicators should be selected from NZC Comprehensive Indicators sets
- Indicators are linked to outcomes and impact identified in the impact pathways
- Reporting on indicators selected is suggested to occur bi-annually starting with the end of the first iteration of the CCC
- Reporting on the Action Plan Progress may be part of the Mission Label process, however, the if and how around this is still being discussed. Reporting will likely occur through CDP/ICLEI & MyCovenant. The Mission Platform will not function as separate reporting platform

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# **Module B-3:** Indicators for Monitoring, Evaluation and Learning

| **B-3.1: Evaluation summary** | | | | | | | |
|---|---|---|---|---|---|---|---|
| Outcomes/ impacts addressed | Action/ project | **Indicator No.** (unique identified) | Indicator name | | Target values | | |
| | | | | | 2025 | 2027 | 2030 |
| (list early changes/ late outcomes and impacts to be evaluated by indicator) | (list action/ pilot project if applicable) | (indicate unique identifier) | (Insert indicator name) | | (list one value per indicator) | (list one value per indicator) | (list one value per indicator) |
| … | … | … | … | | … | … | … |

| **B-3.2: Indicator Metadata** | |
|---|---|
| (for each indicator selected – take from Comprehensive Indicator Sets) | |
| Indicator Name | |
| Indicator Unit | |
| Definition | |
| Calculation | |
| Indicator Context | |
| Does the indicator measure direct impacts (i.e. reduction in greenhouse gas emissions?) | [yes/no] |
| If yes, which emission source sectors does it impact? | Fields of action according to GHG inventory format – Module A-1 |
| Does the indicator measure indirect impacts (i.e. co- benefits)? | [yes/no] |
| If yes, which co-benefit does it measure? | Co-Benefits |
| Can the indicator be used for monitoring impact pathways? | [yes/no] |
| If yes, which NZC impact pathway is it relevant for? | Impact Pathways according to - according to Module B-1 |
| Is the indicator captured by the existing CDP/ SCIS/ Covenant of Mayors platforms? | [yes/no] |
| Data requirements | |
| Expected data source | |
| Expected availability | |
| Suggested collection interval | |
| References | |
| Deliverables describing the indicator | |
| Other indicator systems using this indicator | |

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# Part C – Enabling Climate Neutrality by 2030

**Part C "Enabling Climate Neutrality by 2030"** aims to outline any enabling interventions, i.e. with regard to organizational setting or collaborative governance models, or related to social innovations – designed to support and enable the climate action portfolios described in Module B-2 as well as aiming to achieve co-benefits outlined in the impact pathway (Module B-1).

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# **Module C-1:** Organisational and Governance Innovation Interventions

**Outline:** Module C-1 “Organizational and Governance Innovation Interventions” consists of a summary table, listing organizational and governance interventions and describing their impact (C-1.1) and a section for more detailed descriptions and comments (C-1.2).

**Module A-1 covers:**

- C-1.1: Enabling organizational and governance interventions
- C-1.2: Description of organizational and governance interventions

**Examples/ Notes:**

- Interventions described in module C-1 should address systemic barriers identified in A-3.
- Examples include interventions aiming at changing the organizational set-up (teams, reporting structures, work flows) within the municipality; or actions aiming at enhancing multi-level or governance or stakeholder collaboration.

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# **Module C-1:** Organisational and Governance Innovation Interventions

| C.1.1: Enabling organisational and governance interventions | | | | | |
|---|---|---|---|---|---|
| Intervention name | Description | Responsible entity/ dept./ person | Involved stakeholder | Enabling impact | Co-benefits |
| (indicate name of intervention) | (describe the substance of the intervention) | (indicate responsible) | (list all stakeholder involved and affected) | (describe how intervention enables climate neutrality) | (indicate how intervention helps achieve impact listed in Module B-1) |
| … | … | … | … | … | … |

| C-1.2: Description of organisation and governance interventions – textual and visual elements |
|---|
| (Please provide here any further detail on listed interventions) |

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# **Module C-2:** Social and Other Innovation Interventions

**Outline:** Module C-2 “Social and Other Innovation Interventions” consists of a summary table, listing organizational and collaborative governance interventions and describing their impact (C-2.1) and a section for more detailed descriptions and comments (C-2.2).

**Module A-1 covers:**

- C-2.1: Enabling social innovation interventions
- C-2.2: Description of social innovation interventions

**Examples/ Notes:**

- Interventions described in module C-2 should address systemic barriers identified in A-3.
- Examples include actions aimed at addressing empowerment & inclusion, regulation and support, bottom-up initiatives and skill and capacity building.

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# **Module C-2:** Social and Other Innovation Interventions

| **C.2.1: Enabling social innovation interventions** | | | | | |
|---|---|---|---|---|---|
| Intervention name | Description | Responsible entity/ dept./ person | Involved stakeholder | Enabling impact | Co-benefits |
| (indicate name of intervention) | (describe the substance of the intervention) | (indicate responsible) | (list all stakeholder involved and affected) | (describe how intervention enables climate neutrality) | (indicate how intervention helps achieve impact listed in Module B-1) |
| … | … | … | … | … | … |

| **C-2.2: Description of social innovation interventions – textual and visual elements** |
|---|
| (Please provide here any further detail on listed interventions) |

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# **Module C-3:** Financing of Action Portfolio

**Outline:** Module C-3 “Financing of Action Portfolio” should contain the list of action portfolios and interventions outlined in Modules B-2, and those from C-1 and C-2 **with cost implication** to provide a summary list of interventions that need to be unpacked in the Investment Plan.

**Module A-1 covers:**

- C-3.1: Summary of interventions with cost implication (to be unpacked in Investment Plan)

**Examples/ Notes:**

- The module should list all interventions outlined in B-2 and those within C-1 & C-2 that have a clear cost implication.
- These will be unpacked in the Investment Plan

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# **Module C-3:** Financing of Action Portfolio

| C-3.1: Summary of interventions with cost implication (to be unpacked in Investment Plan) | | | | | |
|---|---|---|---|---|---|
| Action/ intervention name | Responsible entity and person | Start/end date | Field of action | Impact | Total cost estimated |
| (list action portfolios and interventions from Modules B-2, C-1 and C-2, which have a cost implication) | (indicate responsible entity and person) | (indicate start and end date of the activity) | (indicate the field of action the interventions belongs to) | (indicate impact - i.e. the GHG reduction/ co-benefit) | (indicate the total costs in €, estimated for the intervention) |
| … | … | … | … | … | … |

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# Next CCC iterations

| Plans for next CCC and Action Plan iteration – textual elements |
| --- |
| (please add your text here) |

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# Operationalising Impact Pathways

## Connecting the Action-Planning process to Strategic Objectives and Portfolio co-design

**Nikhil Chaudhary**
Strategic Learning Lead,
EIT Climate-KIC

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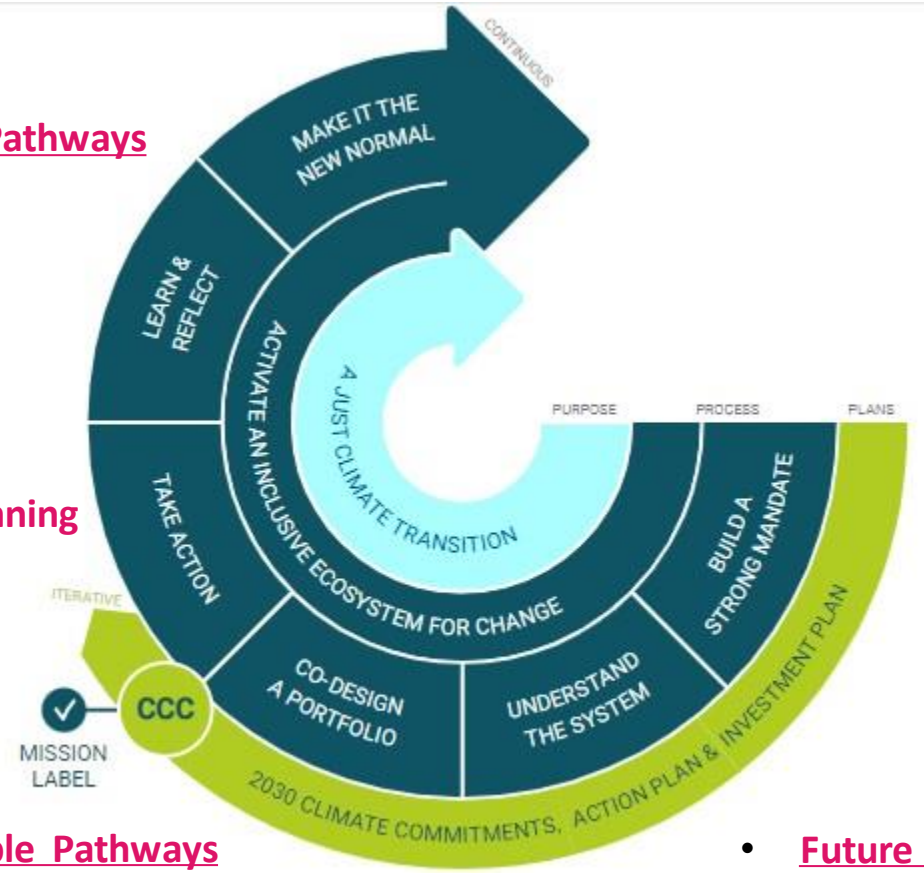
# Impact Pathways within Transition Map

- Adjust Goals & Pathways
- Revise portfolios
- Sensemaking

- Operational Planning
- Track Progress
- Link Actions




- Explore Actionable Pathways
- Connect Actions to Impact
- Select Indicators

- Future Scenarios
- Selection of Levers
- Connections & Relationships

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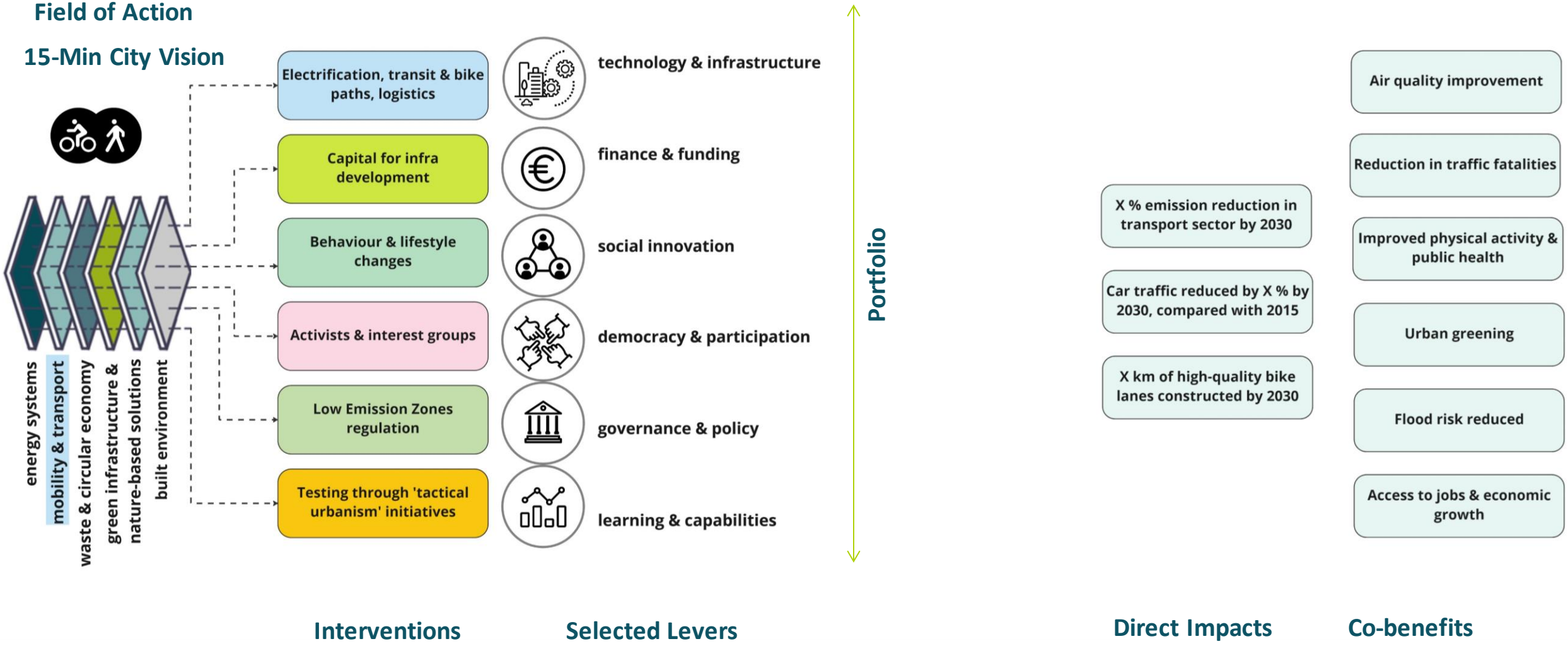
# Step 1: Enabling actions through systemic levers as pathways

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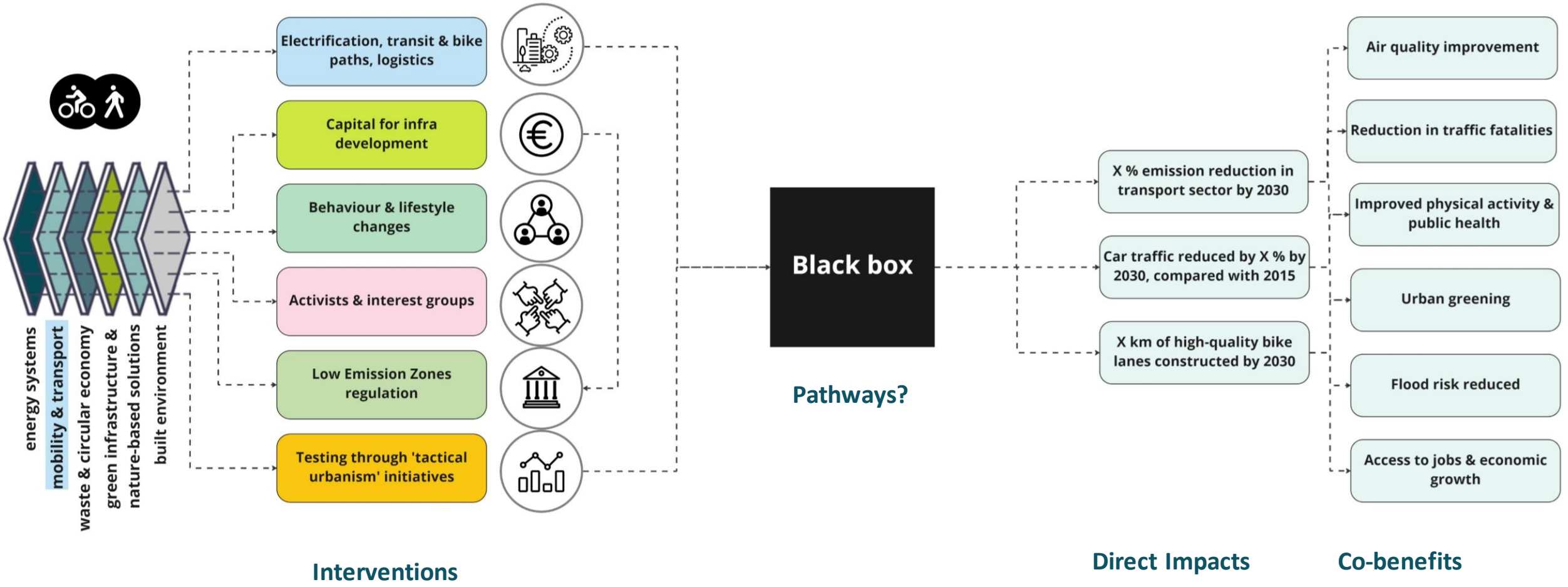
# The black box (or messy middle) of strategic planning!

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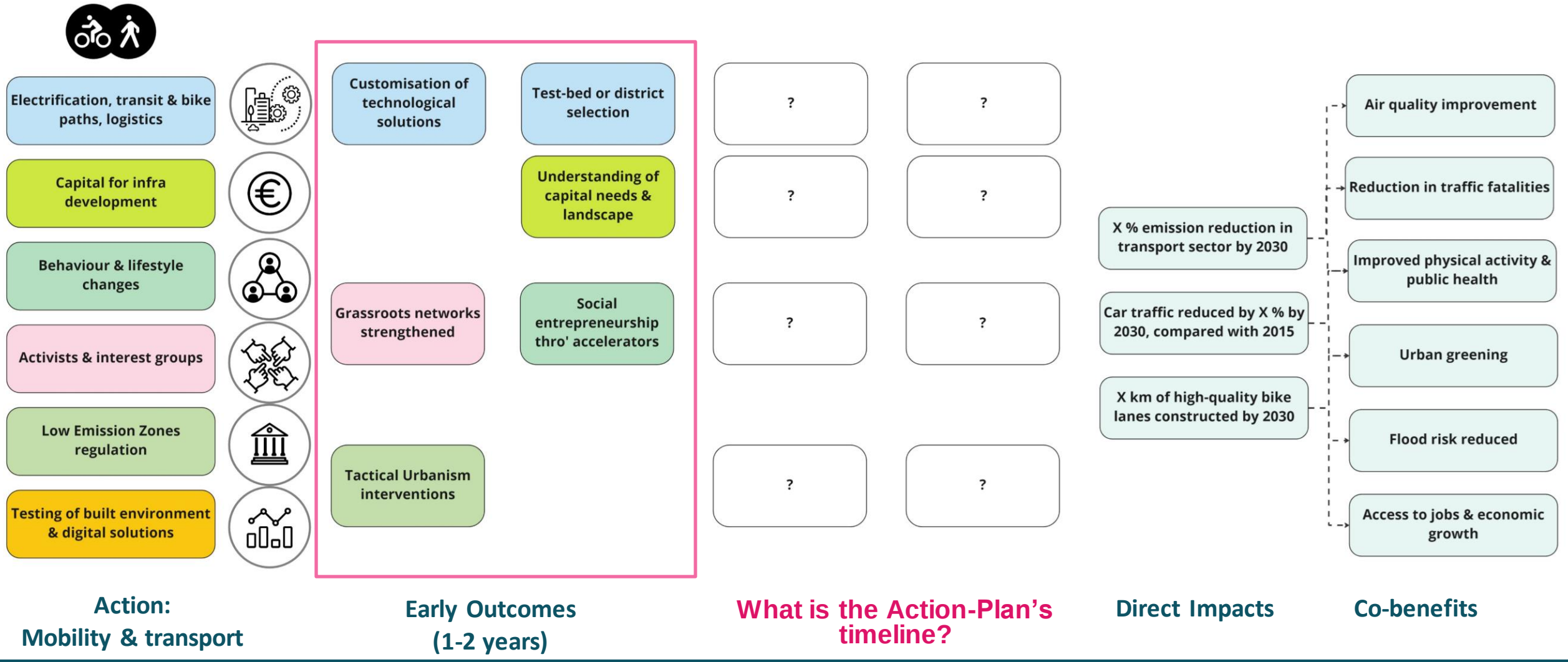
# Step 2: What are the Action Plan's Early Changes?

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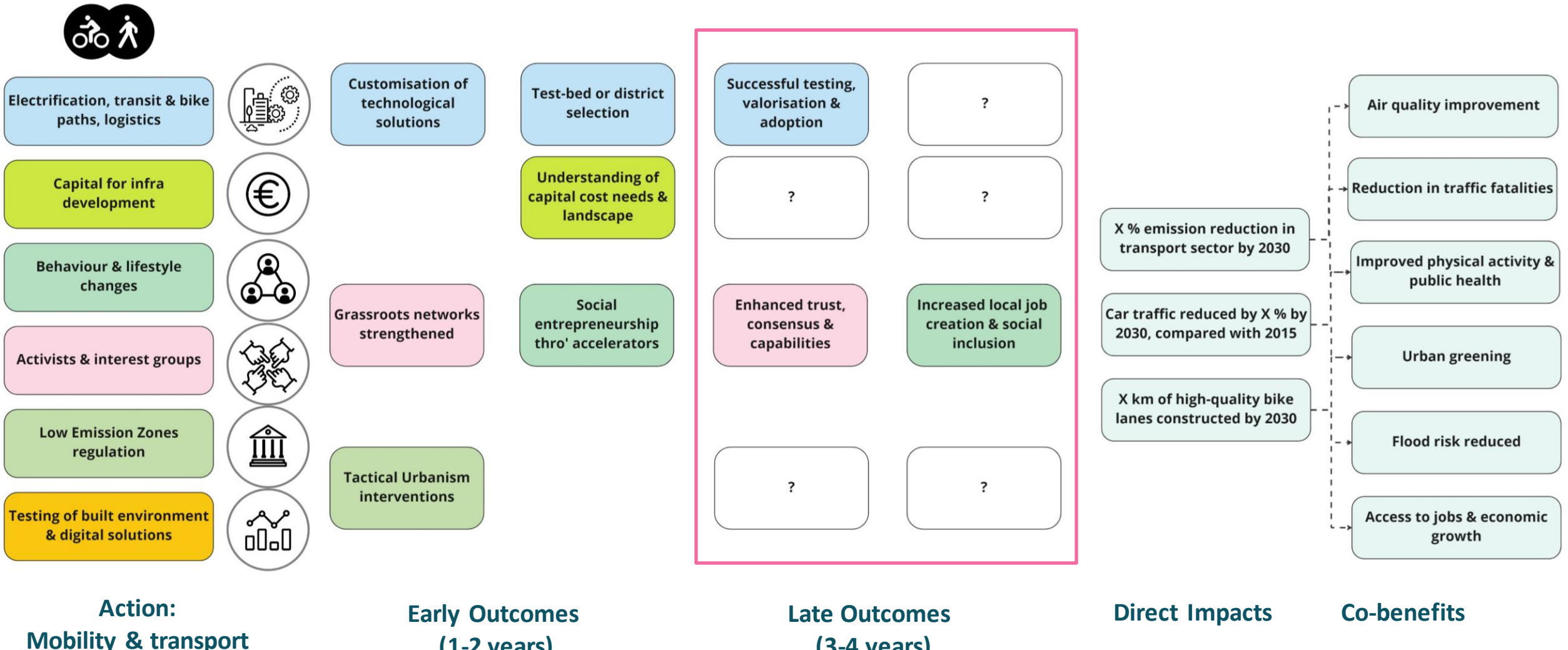
# Step 3: What are the Action Plan's Later Outcomes?




**Action: Mobility & transport**

**Early Outcomes (1-2 years)**

**Late Outcomes (3-4 years)**

**Direct Impacts**

**Co-benefits**

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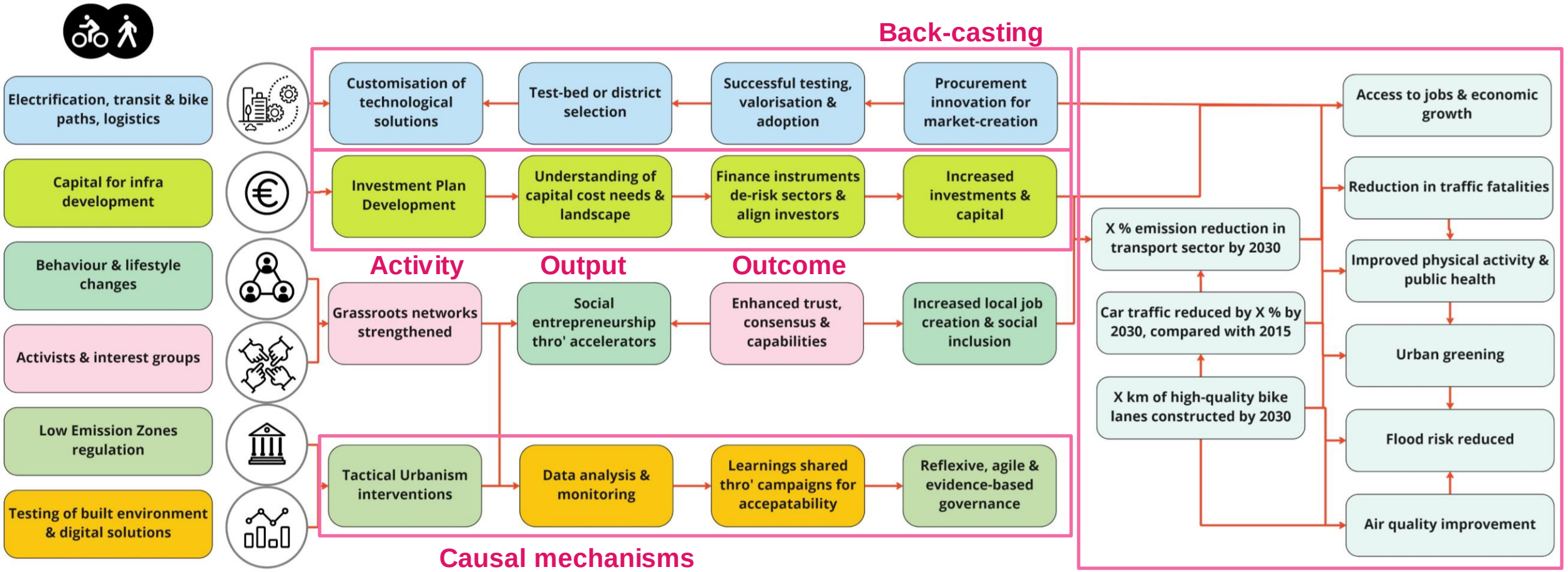
# Step 4: How are outcomes connected to impacts through pathways?




**Action: Mobility & transport**

**Early Outcomes (1-2 years)**

**Late Outcomes (3-4 years)**

**Direct Impacts**

**Co-benefits**

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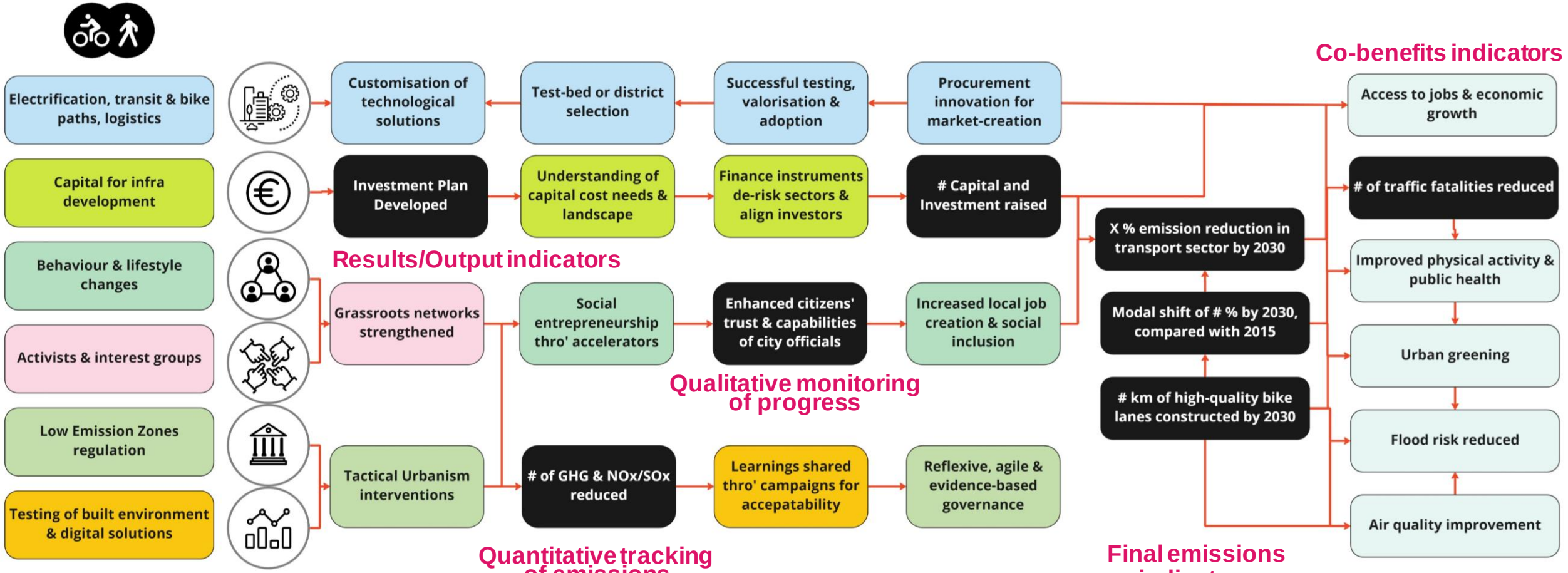
# Step 5: Indicators/MEL for measuring progress along pathways

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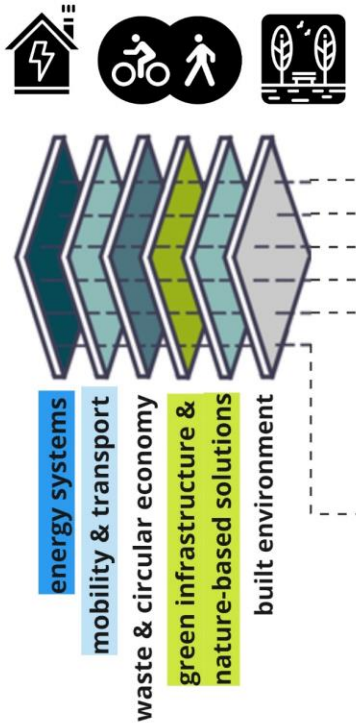
# Step 6: Scenario-building for portfolio composition

**Fields of Action**

1] 15-min city
2] Deep retrofit
3] Green-blue infra
4] …




High GHG mitigation / High co-benefits impact

High Certainty / Predictable / Known solutions

Low Certainty / Unpredictable / Experimental

Low GHG mitigation / Low co-benefits impact

Early Outcomes (1-2 years)

Later Outcomes (3-4 years)

- X % reduction in electricity consumption by 2030
- X % emission reduction in transport sector by 2030
- Car traffic reduced by X % by 2030, compared with 2015
- X km of high-quality bike lanes constructed by 2030
- X sq. km of urban forest by 2030

**Impacts & Co-benefits**

- Energy expenses reduction
- Air quality improvement
- Reduction in traffic fatalities
- Improved physical activity & public health
- Urban greening
- Flood risk reduced
- Access to jobs & economic growth
- Access to jobs & economic growth

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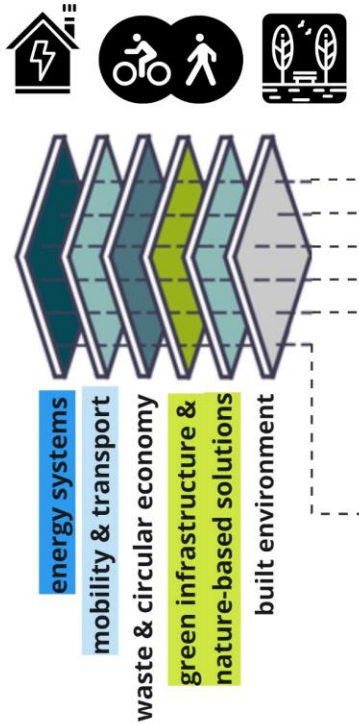
# Step 7: Impact Pathways to prioritising actions & co-designing portfolio

**Fields of Action**
1] 15-min city
2] Deep retrofit
3] Green-blue infra
4] …




combinations of levers

Strategic Objective
- Late Outcome
- Late Outcome
- Late Outcome

connected through pathways?

High GHG mitigation / High co-benefits impact

Strategic Objective
- Late Outcome
- Late Outcome
- Late Outcome

High Certainty / Predictable / Known solutions

Strategic Objective
- Early Outcome
- Early Outcome
- Early Outcome

Low Certainty / Unpredictable / Experimental

Strategic Objective
- Late Outcome
- Late Outcome
- Late Outcome

Low GHG mitigation / Low co-benefits impact

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- Flood risk reduced
- Access to jobs & economic growth
- Access to jobs & economic growth

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# Starting points for co-creating Impact Pathways

- What **changes** (outcomes) is the Action Plan seeking?
- How are the outcomes related to your city's **climate-neutrality Vision**?
- Which **co-benefits/impacts** is the Action Plan aiming to achieve?
- When does the Action Plan expect to achieve these changes (**earlier or later**)?
- Where and under what **conditions/contexts** is this going to happen?
- How do you think it will work in practice and how will one change **lead to** another?
- Which direct impacts and co-benefits occur **during** the changes begin to happen?
- What will your city and stakeholders and other partners do to make the changes happen (**activities or actions**)?
- Are there any **barriers** that may prevent making these changes happen? **(risks)**

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# Check-list for finalising Impact Pathways within the template

- Does this set of outcomes sufficiently capture the ***intent or goal*** of the Action Plan? If not, what's missing?
- Are the outcomes clearly and ***specifically*** defined? (i.e., one outcome statement)
- Are there any ***gaps*** in the impact pathways? (e.g., is there an intermediate outcome that needs to be included)
- Are the causal links as ***mechanisms*** for change clear? Can they be explained as a story?
- What's the ***evidence*** that supports the links between the various Impact Pathway elements? Any existing evidence or data sources? If not, what are the ***evidence gaps***?
- How do the planned ***activities/outputs*** connect and contribute to the outcomes?
- Which are the common outcomes ***across multiple levers and fields of action***?
- How could similar outcomes be ***clustered or combined*** as bold strategic objectives for coordinated actions?

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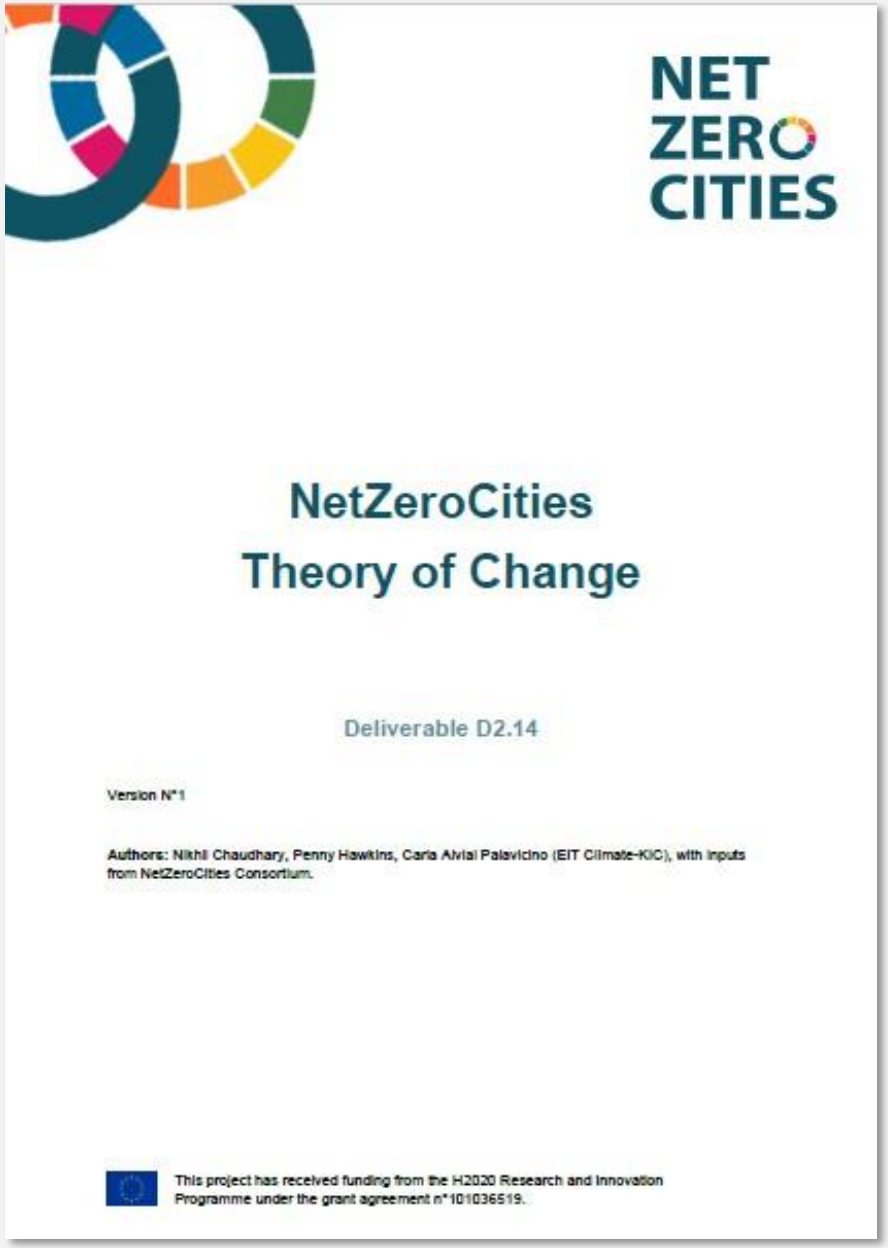
# Coming Soon!

- Aligning your strategic objectives or selecting/ re-framing key outcomes (over 150 mapped by NZC)
- Step-by-step guidance on how to operationalise your impact pathways
- Framing your impact narrative for consensus-building & communication on systemic climate-neutrality



NET ZERO CITIES

NetZeroCities
Theory of Change

Deliverable D2.14

Version N°1

Authors: Nikhil Chaudhary, Penny Hawkins, Carla Alvial Palavicino (EIT Climate-KIC), with inputs from NetZeroCities Consortium.

This project has received funding from the H2020 Research and Innovation Programme under the grant agreement n°101036519.

Impact pathway 4: Democracy and participation

Impact narrative

Impact narrative

The city initiates this pathway by understanding the critical role and needs of citizens and communities for building the 'backbone infrastructure' to enable democratic climate action. To radically multiply engaged actors, the city invests efforts in including diverse and especially marginalised actors and builds coalitions with clear aims and roles within the climate-neutrality mission. These participation efforts are supported by allocating essential resources and funding dedicated to cross-sectoral activities.

Consequently, as Early Changes, distributed networks of motivated communities emerge, with the city building capacities to successfully assume the role of orchestrating (instead of managing) emerging climate actions. This is followed by the co-design and implementation of democratic innovations (e.g., citizens councils, climate assemblies) that set up collaborative processes and spaces/forums for dialogue, deliberation, and consensus-building. As a result, strategic recommendations, shared narratives and collective visions are co-created and disseminated to firmly embed long-term goals for democratic action.

In terms of Later Outcomes, the cross-pollination between diverse sets of engaged actors leads to consensus-building & inform to citizens' inputs to policy and governance. At the same time, deliberative democracy tested through NZC actions legitimises its practice through city's portfolio of actions (like Pilot initiatives, Mission-plans). As citizens' inputs are accepted and implemented with co-benefits and tangible effects becoming visible, participative processes result in mutual trust and accountability for both the city as and the citizens. Action-learning and socialising of outcomes eventually enables institutionalisation of participatory culture/practices, scaling up from the grassroots, and more inclusive climate actions.

The following table summarises the impact logic for this lever as a suggested set of entry-points, outcomes, and impacts for cities to consider, modify or add additional ones as applicable to their specific contexts:

| Entry Points (EP) | Early Changes (EC) | | Later Outcomes (LO) | | Impacts (I) |
|---|---|---|---|---|---|
| 2022-23 | 1 to 2 Years | | 3 to 4 Years | | 5 Years (and up to 2030) |
| **EP4.1 Build understanding of needs for centring of citizens & communities' critical role in city's climate action** | EC4.1 Inclusive knowledge helps across cultural contexts actively shape the design and implementation of climate actions | EC4.5 Networks built, resourced, and start to show results, while ensuring orchestration role of the city | LO4.1 Democratic innovations and deliberative democracy tested and legitimised in practice through city's portfolio | LO4.6 Distributed governance makes decision -makers accept & trust citizens' capacities to tackle and support complex issues | I4.1 Democratic climate actions are better resourced as a long-term priority by the city |
| **EP4.2 Radically multiply the number of actors and enable the whole city ecosystem to contribute to the climate transition** | EC4.2 Coalitions of actors with real stakes & historically left out) brought together, have clearly defined roles to co-develop and co-implement climate actions | EC4.6 Democratic innovation establishes collaborative processes and spaces/forums for – dialogue, deliberation, deep listening, and consensus-building | LO4.2 Cross-pollination between diverse sets of engaged actors leads to consensus-building & inform to citizens' inputs to policy and governance | LO4.7 Citizen engagement and input enables decisionmakers to take a long-term approach beyond election cycles and feel confident in experimental approaches | I4.2 Increased competencies, capacities, and capabilities for democratic climate action for continuous & ongoing systems change |

Outcomes table

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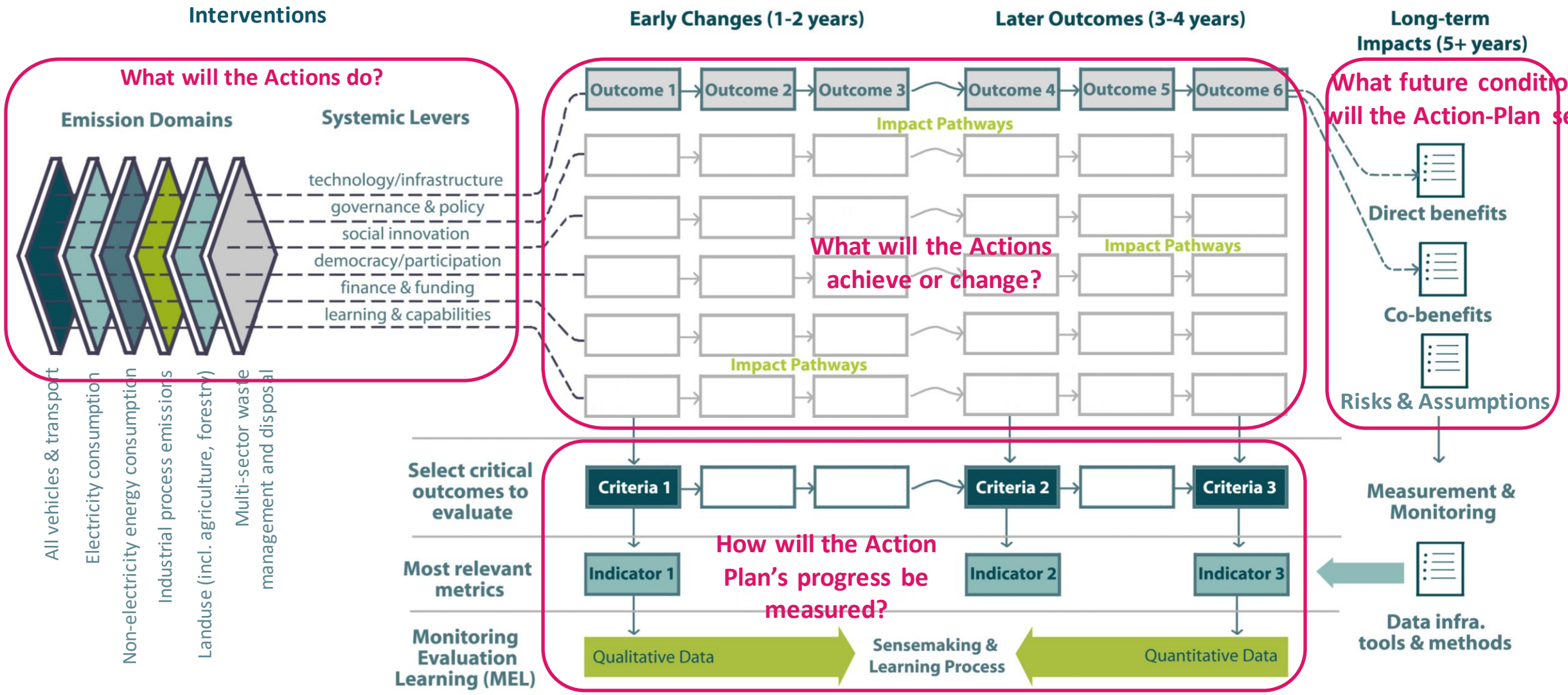
# NZC Impact Framework

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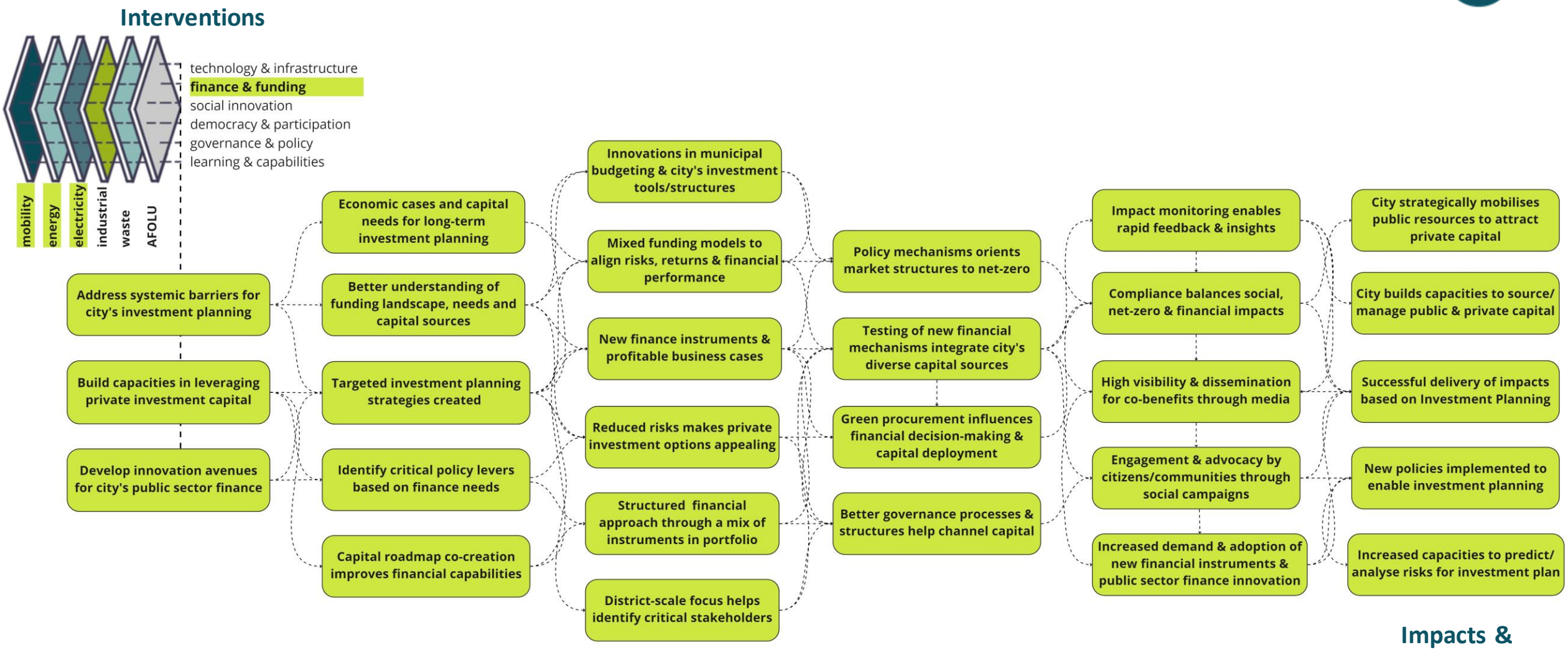
# Impact Pathways example – Finance innovation & funding

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# Any Questions?

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# Action planning: key methods and activities

**Ghazal Etminan/ AIT**
Senior Research Engineer / Business Developer in Carbon and Climate Neutral Cities

**Wolfgang Loibl / AIT**
Sustainable Urban Development Consultant, Emission & Climate modeller, Policy advisor, Policy maker (Councillor)

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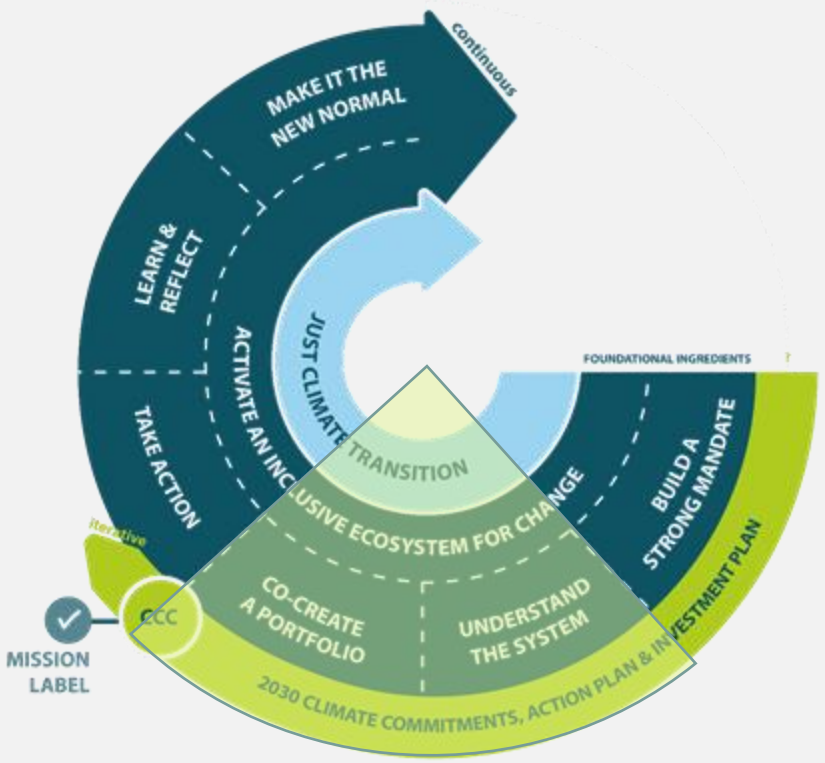
# Action planning: key methods and activities

(1) System understanding:

Which framework conditions should be considered?

(2) How to conduct the GHG emission inventory?

(3) How to develop a portfolio of actions?

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# System Understanding: Framework conditions for action planning

Stocktaking necessary to gain all information for policy makers, authorities and stakeholders

- by identifying the framework conditions impacting GHG emissions,
- by addressing the areal emission distribution and emission hot spots to (later) allocate proposed actions,
- to understand the city's ecosystem, the governance system, its policy, relevant stakeholders groups, civil society, etc.),
- by identifying which framework conditions may support emission reduction.

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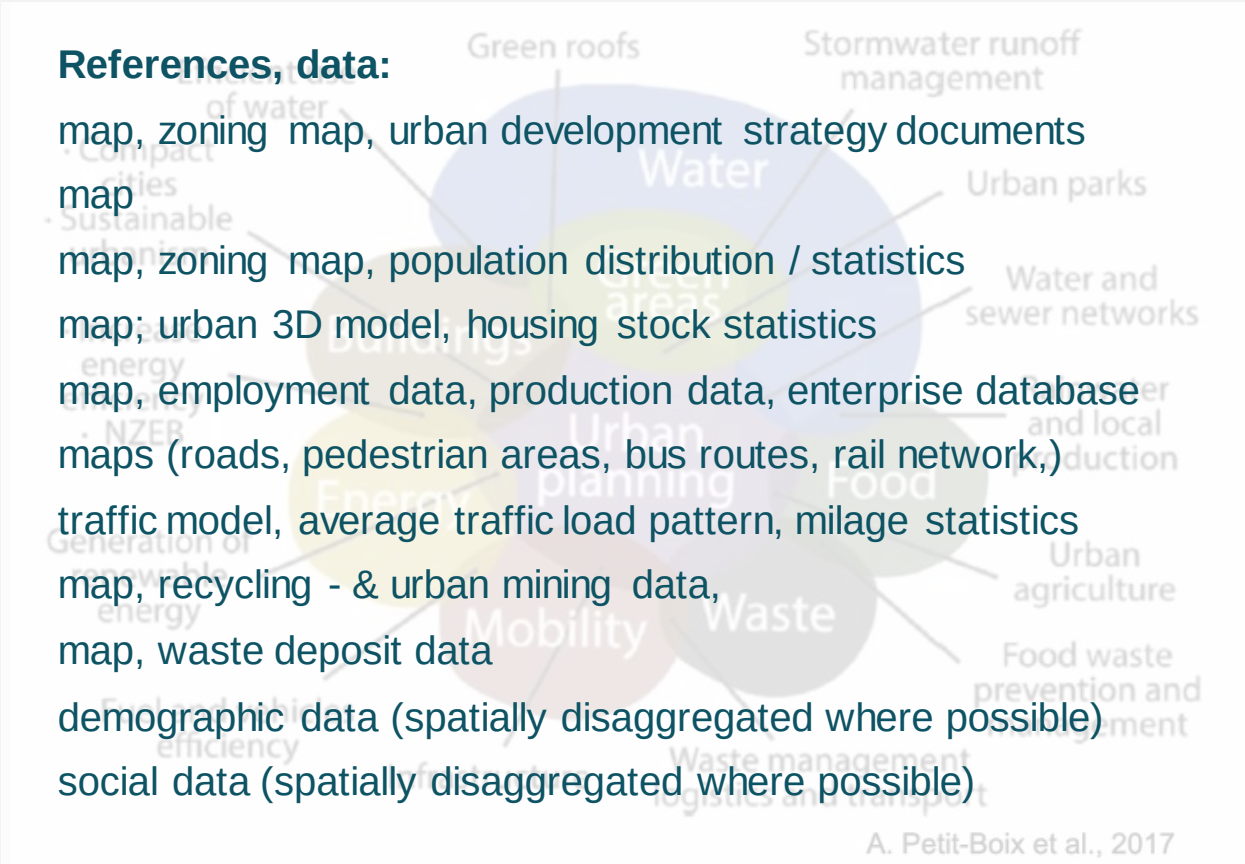
# Framework conditions influencing GHG emissions: physical/spatial urban system elements

Allocation of elements to identify barriers and leverage points

| Topics | References, data: |
|---|---|
| • Built up area / land use distribution | map, zoning map, urban development strategy documents |
| • Blue-green infrastructure / nature & recreation areas | map |
| • Urban density and function distribution | map, zoning map, population distribution / statistics |
| • Housing stock (age, insulation, heating systems, cooling) | map; urban 3D model, housing stock statistics |
| • Industry | map, employment data, production data, enterprise database |
| • Transportation infrastructure | maps (roads, pedestrian areas, bus routes, rail network,) |
| • Mobility pattern | traffic model, average traffic load pattern, milage statistics |
| • Resources: stocks & flows | map, recycling - & urban mining data, |
| • Landfill | map, waste deposit data |
| • Population development trends | demographic data (spatially disaggregated where possible) |
| • Inhabitants' social structure | social data (spatially disaggregated where possible) |
| • …. | |

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# GHG-related framework conditions: Political-/Governance/social/ social innovation systems

## Political foundations

- Strategies, concepts, vision
- Legal system, standards, tax system, subsidy system

## Governance structure

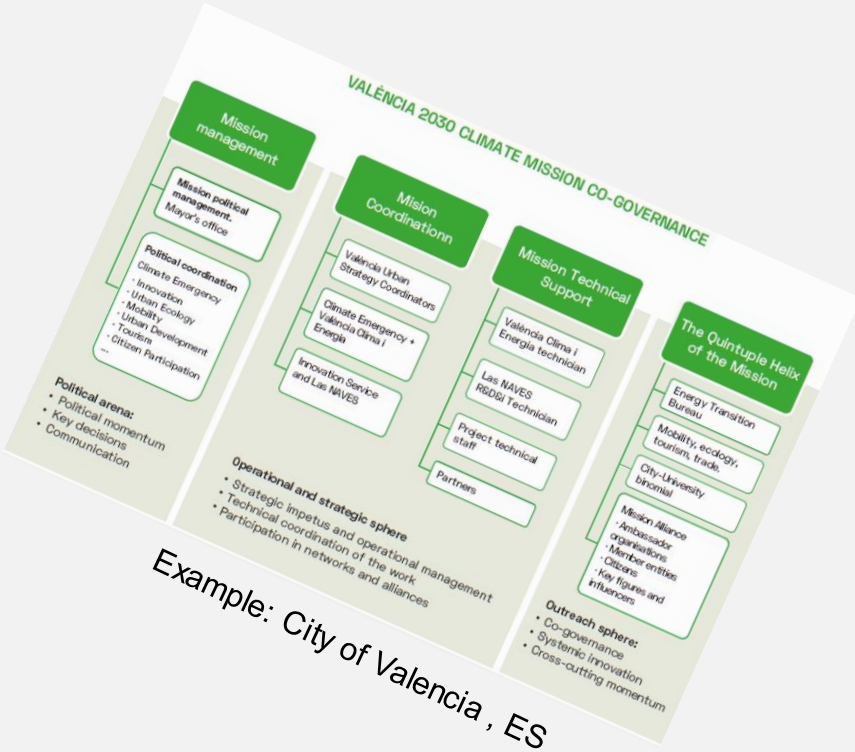
- Multilevel governance - distribution of decision power

## Stakeholder groups contributing to mitigate emissions

- Citizens providing ideas and change behaviour
- Grassroot organizations – making opinions, overcome barriers

## Innovation ecosystem

- Companies providing technologies & services affecting emission reduction
- Universities & research organizations pushing innovation
- And further ….




Example: City of Valencia , ES

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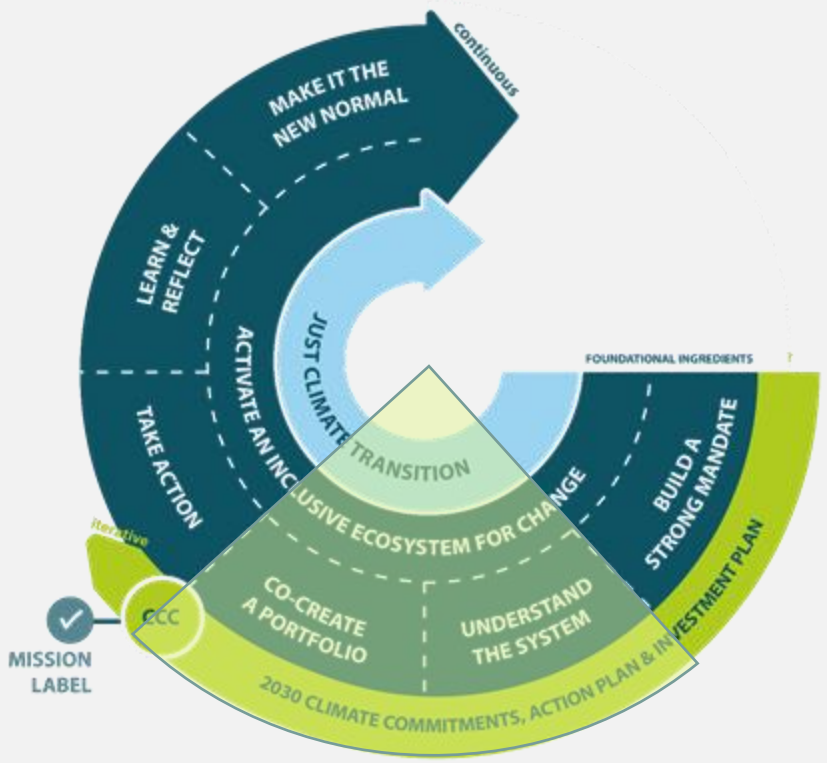


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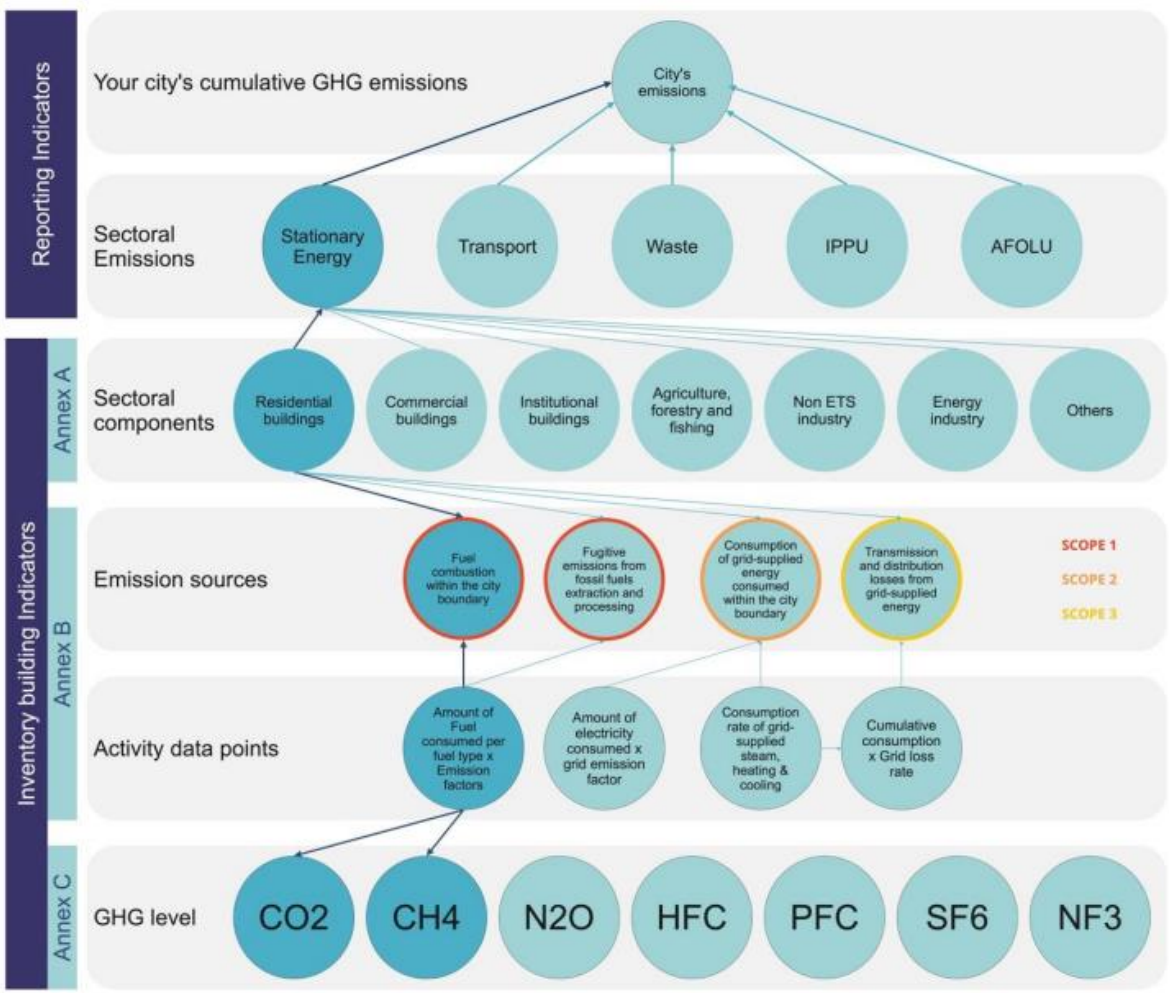
# How to conduct an GHG emission inventory!

- Emissions are either measured at their sources or calculated, based on emission-generating activities: all area- and line-based emissions are modelled, only big point-based ones are measured.
- Emission source groups are:
  - Buildings
  - Transport
  - Waste
  - Industrial processes and product use (IPPU)
  - Agriculture, forestry and other land uses (AFOLU)

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# How to conduct an GHG emission inventory!

- The GHG emission inventory must provide all emission numbers by emission sector and subsectors to tailor actions and measures to eliminate GHG emissions.
- The GHG-inventory total is the baseline for the city's net zero journey.
- Emission inventories must allow to document progress: changes of emission volume by emission source group over time!

| | Direct emissions (Scope 1) | Indirect emissions (Scope 2) | Out-of-boundary missions (Scope 3) |
|---|---|---|---|
| **Buildings** | Emissions from all buildings, facilities and permanent infrastructure / equipment (collectively referred to as 'stationary energy' and including public, private, residential and industrial sectors) within the city boundary (excluding EU ETS registered facilities)3. | Emissions from outside the city boundary due to the use of grid-supplied energy (electricity or district heating/cooling) within the city boundary | *Not applicable (Includes any residual emission sources in buildings and embodied emissions associated with the construction, materials, etc.)* |
| **Transport** | Emissions from on-road and rail (as a minimum) transport within the city boundary, disaggregated by municipal fleet, public transport, private and commercial transport. | Emissions from outside the city boundary due to the use of grid-supplied electricity used to charge electric vehicles | Recommended by 2030 *(Includes emissions associated with vehicles manufacturing happening outside the city)* |
| **Waste** | Emissions from waste generated and managed/ sent to landfill within the city boundary. | Not applicable | Emissions from waste generated within the city boundary but managed/ sent to landfill outside the city boundary. |
| **IPPU** | Emissions from GHGs used in, or as a by-product of industrial processes and products (if present / significant)2 | Not applicable | Not applicable |
| **AFOLU** | Changes in GHG emissions from any changes in land use giving rise to (sources) or sequestering (sinks) emissions (if significant)2 | Not applicable | Not applicable |

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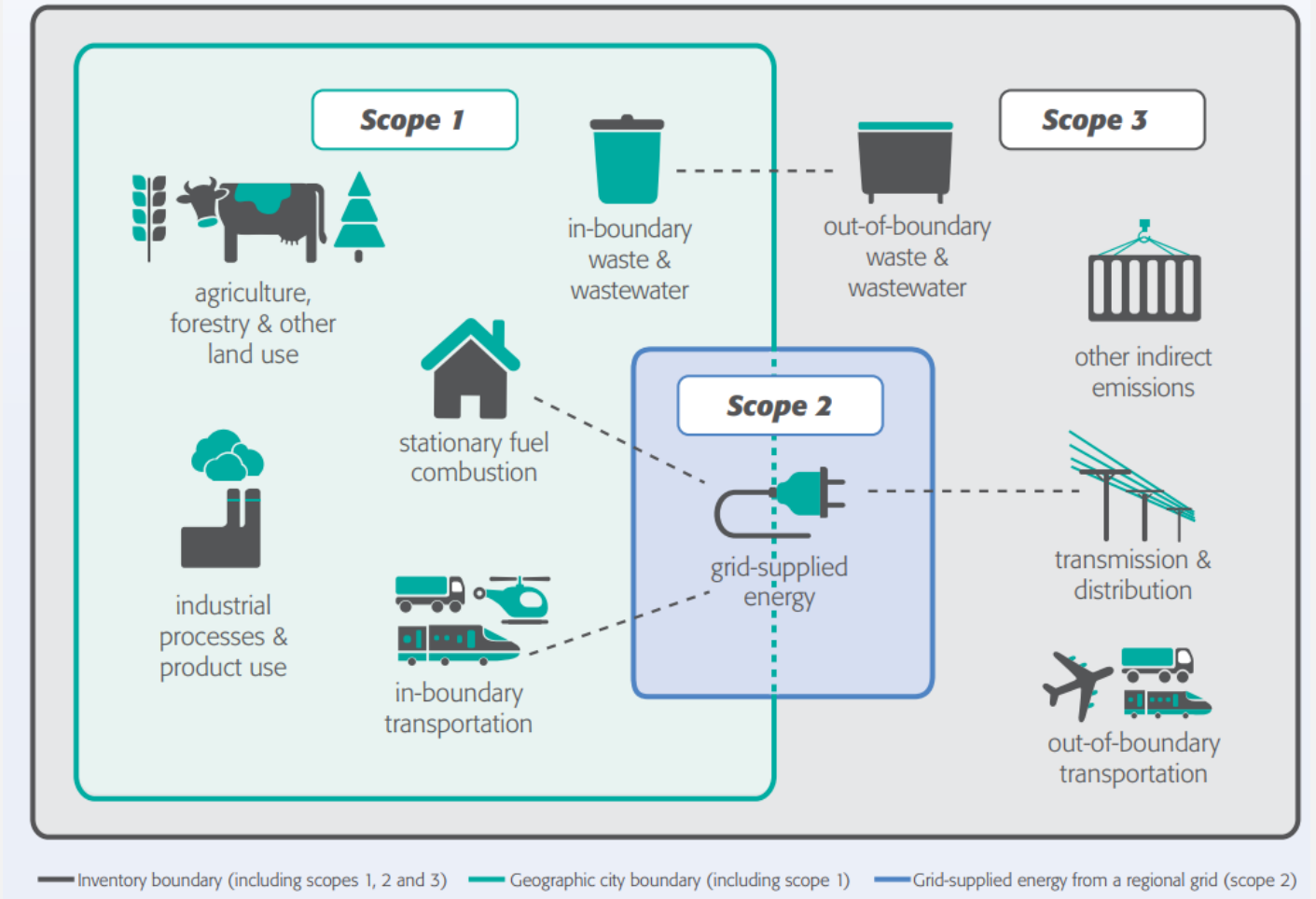
# How to conduct an GHG emission inventory!

- Emissions must be allocated to certain territory / boundaries:
- **Scope 1** refers to <u>direct emissions</u> within the city boundary
- **Scope 2** refers to <u>indirect emissions</u> triggered through local activities but generated outside the city (e.g. energy supply)
- **Scope 3** refers to <u>distant emissions</u> triggered through out of boundary activities (e.g. transportation for export, flights)

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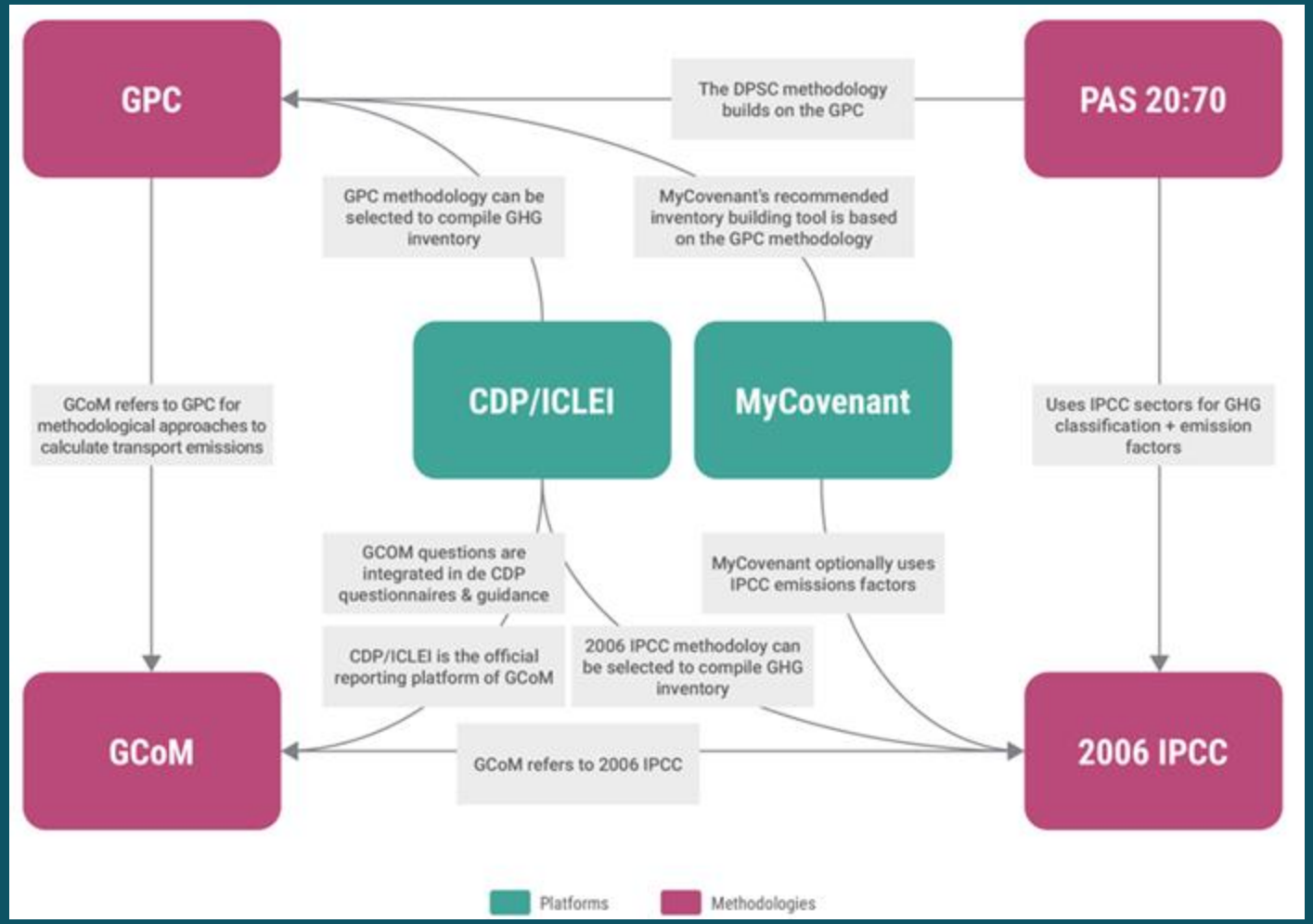
# GHG inventory: methods and reporting

There exist several inventory approaches and several reporting systems:

- The GPC methodology (following IPCC guidelines) is the basis for GHG emission inventories in the majority of Mission Cities.
- MyCovenant and CDP/ICLEI Track are the two most used reporting mechanisms of Mission Cities.

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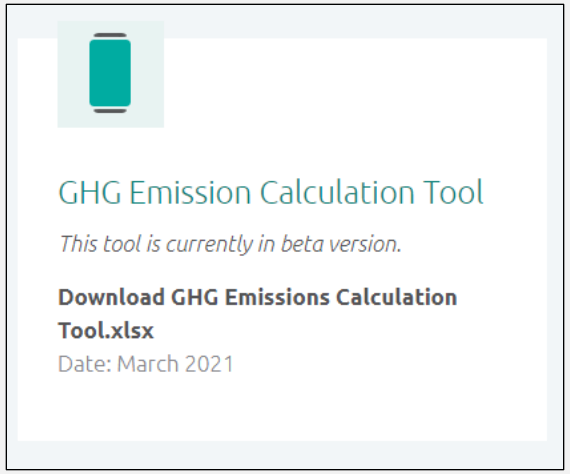
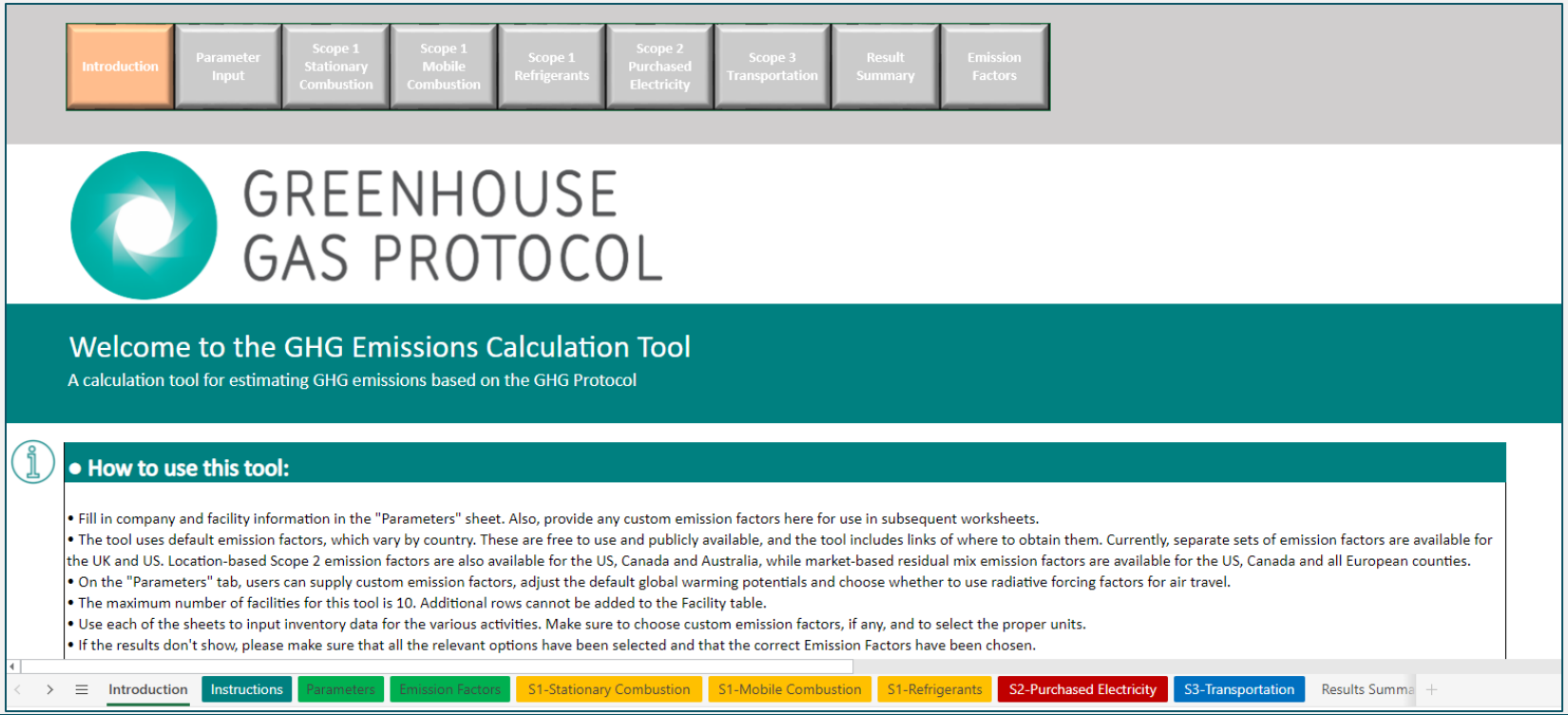
# GHG Emission inventory building: guides and tools

- The GPC guide provides (among others) a complete overview how to set up the GHG emission inventory
- https://ghgprotocol.org/sites/default/files/standards/GPC_Full_MASTER_RW_v7.pdf
- Emissions can be calculated for each emission source in different ways, applying those activity data which can be provided by the city
- An Excel tool can be downloaded for GHG emission calculation (including all emission factors and $CO_2e$ - factors):
- https://ghgprotocol.org/calculation-tools

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# Action planning: key methods and activities

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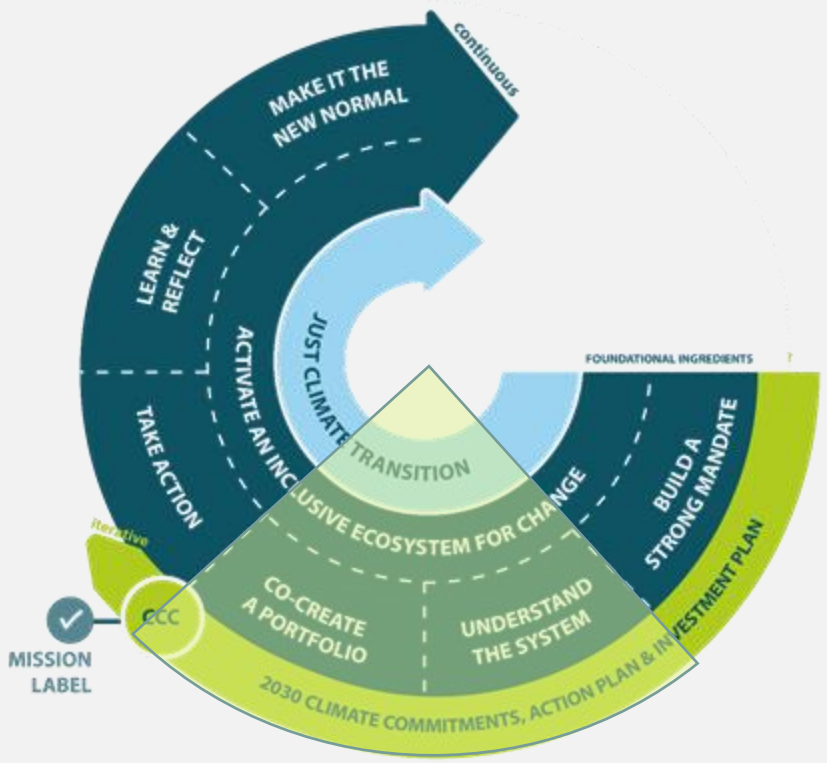


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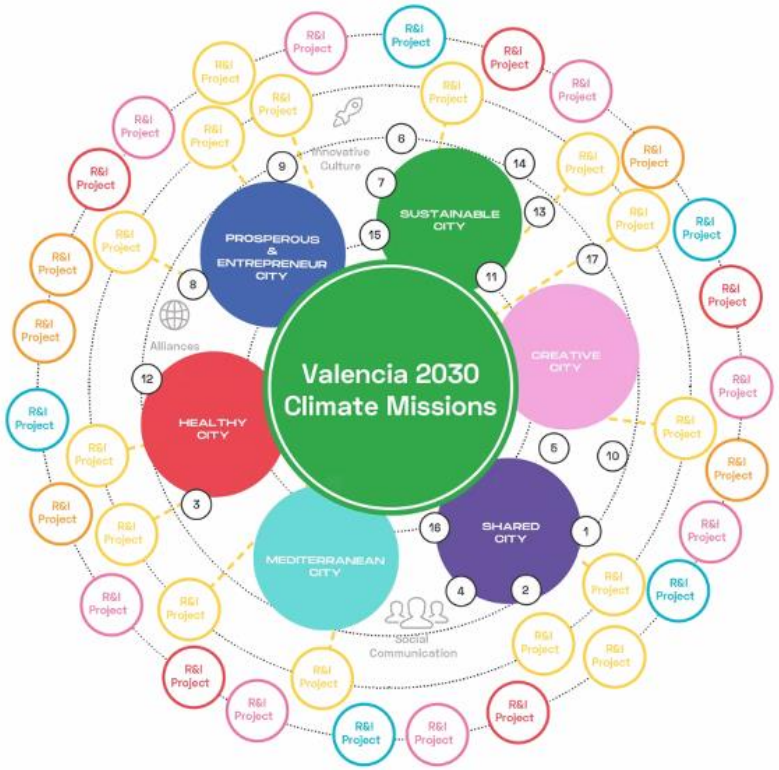
# How to develop a Portfolio of actions!

- The Portfolio should list the actions to remove GHG emissions on a project-by project-basis.
- Actions must comprise of a wide mix of measures: including / governance / policy / regulation / spatial / infrastructure/ technological / nature-based / financial / social innovation and capability building interventions, pushing GHG reduction.
- The Portfolio must be conducted through a co-design process to include all ideas for actions, enhance acceptance and gain interest of the stakeholders.

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# Portfolio co-design process

- For developing a comprehensive portfolio, intensive collaboration is necessary:
  - all who can contribute shall be involved through a Portfolio co-design process.
  - Portfolio working group(s) shall involve
  - stakeholders, citizens, experts, representatives from universities, and
    - those, required for implementation (landlords, companies, city administration, energy suppliers, investors, banks).

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# Portfolio co-design process

- The Portfolio-co-design shall be organised as a series of events,
  - Those events may be related to a certain topic (e.g. an emission source group), involving
    - those actors, who can or even must contribute to solve the problem, and
    - actor groups, which are affected by actions
      (e. g. passengers when discussing mobility actions, or
      tenants, when working on building refurbishment actions (insulation, heating)).
  - Public hearings may involve a larger number of stakeholders, if many citizens are affected.
  - Street level social innovation events (e.g. Hakathons or Living Labs can foster novel concepts).
  - Additional Online Information, to allow knowledge transfer and co-design involvement of citizens not able or willing to attend public events.

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# Action design

## General interventions

- The cities shall first concentrate on local actions, where the city has influence (scope 1). All interventions to remove GHG emissions (avoid, cut, reduce, substitute), must be included in the portfolio, as a mix of measures or projects:
  - Organizational and governance innovation interventions
  - Physical/spatial interventions
  - Social interventions - Triggering change of behaviour
  - Other Interventions
    - Technical interventions
    - Nature-based interventions

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# Actions by emission source group (example)

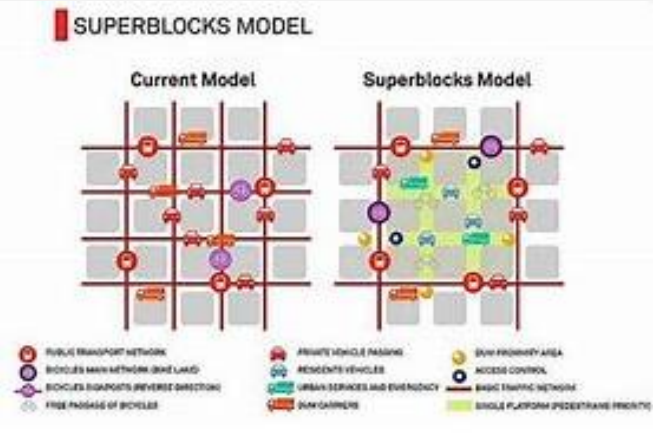
## Transportation / Mobility

### Current state:

- Intensive private car use for commuting and cargo
- Main road network shows all day heavy traffic loads
- Lacking public transport lines
- Less use of public transport

### Mix of measures:

- **Urban Planning, Transportation Planning:**
  - Compact urban development and multifunctional land use
  - Establish superblocks with few roads for through-traffic
  - Establish attractive routes for non-motorized traffic
    reduces travel time and distance and enhances attractiveness for walking and cycling, etc.
- **Infrastructure:**
  - Establish a dens(er) network of public transport services
  - Enhance frequency of courses, and establish a system of hubs
  - E-vehicle charging facilities
- **Technology:**
  - e-vehicles for passengers and cargo, introduce new driverless transportation
- **Governance** / legal restrictions, tax, subsidies, tariffs:
  - Establish / enhance e-vehicle friendly taxation, subsidizing
  - Establish attractive tariff systems,
  - Establish regulations to stop fossil fuel use
  - Establish inner city access regulations
- **Social / Behaviour**
  - Changing mobility habits towards use of public transport and non-motorized transportation

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# The Portfolio of actions needs all information for implementation

All information required for implementation must be included into the Portfolio:

- Clear description of the action
- Relate to emission source group
- Identify emission source
- Identify emission reduction volume
- Allocate measure implementation
- Address affected population
- Address responsible emitters, required for implementation (companies, landlords, etc.)
- Estimate costs
- List further efforts
- Encounter barriers

1. Project name
2. GHG emission sub-section (see Module A-1)
3. Removed / substituted energy, volume of fuel / energy carrier, energy equiv.
4. Generated renewable energy
5. GHG reduction volume by gas and CO2e (see Module A-1)
6. Action type (e. g. org/gov., planning, technological/physical, social, nature (see Modules C-1,C-2.))
8. Action description
9. Extent, entities (e. g. area, buildings, flats, bus network-length, etc.)
10. Location of project implementation (reference to a map, narrative comments (e. g. district xy))
11. Affected citizens, households, workplaces, etc.
12. Responsible bodies for emissions / for action implementation
13. Costs (estimated: total and by CO2e) (see Module A-1)
14. Further efforts, if any
15. Possible barriers and measures to overcome

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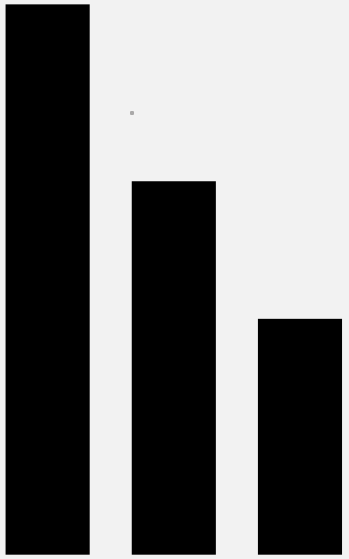
# Priority list of projects/ interventions to be implemented first

- The priority list must identify the most urgent projects with best cost-impact relation
- The list must show a timeline for project implementation, serving as information for finance planning.
- Actors responsible for implementation and financing must be addressed.
- Costs / investments must be estimated with the necessary detail.



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# Agenda

14:00-14:05 Welcome & introduction

14:05-14:25 Action Plan template walk-through

14:25-14:40 Operationalizing impact pathways

14:40-14:55 Action planning: key methods and activities

14:055-15:25 Break-out deep dive (3 parallel sessions)

- Session A: Current state assessment
- Session B: Portfolio of actions
- Session C: Social innovation, governance and finance

15:25-15:45 Reports from Break-out groups, open Q&A

15:45-15:55 Mission Label (European Commission)

15:55-16:00 Wrap up and outlook

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# Breakout sessions

- on

  Session A: current state assessment
  Session B: Portfolio of actions
  Session C: Social innovation, governance and finance

- Key questions:
  - Would you like to reflect/share your experience on methods and approaches of Action Planning (related to the sessions topic)?
  - Which immediate issues/challenges you are aware in the Action Planning Process?
  - Which support do you need for Action Planning / achieving the CCC Label ?

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## Break-out session reporting;
Q&A on:

Current state assessment
Portfolio of actions
Social innovation, governance and finance

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# **Break-out sessions** (30 min. no changes)

**Room 1:** Part A Current State Assessment

**Room 2:** Part B Portfolios of action

**Room 3:** Part C Social innovation, governance and finance

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EUROPEAN UNION

EU MISSIONS

# MAIN ELEMENTS OF THE MISSION

## Horizon Europe

### Mission platform

- Run by the NetZeroCities consortium
- Tailor-made technical, regulatory and financial advice
- R&I demonstrators
- Twinning and mutual learning

### Portfolio of R&I projects

## Climate City Contracts

- Including climate action plan and investment strategy
- Innovative city governance and citizen engagement
- Involvement of European, national and regional level

Mission label

- Synergies with other programmes
- Help with access to funding and financing

# VALIDATION OF CLIMATE CITY CONTRACTS

- **Balance:** quick and efficient, but thorough to inspire confidence
- Proposal to have **two cut-off dates per year**
- **Assessments:**
  - **Core Contract** (Commitments): Cities Mission Secretariat
  - **Climate Action Plan**: Joint Research Centre (JRC)
  - **Climate Investment Plan**: Small group of financial experts (contracted by but independent of NZC)
- Consultation of **Mission Board** and **Mission Owners Group** (Commission-internal)

EUROPEAN UNION

EU MISSIONS

# BENEFITS ASSOCIATED TO MISSION LABEL

- **Work in progress**
- Examples from EU programmes:

  - **LIFE programme**

    Specification of award criteria (g) projects that build on or upscale the results of other projects funded by the LIFE Programme, its predecessor programmes or by other Union funds, are to benefit from a bonus in their evaluation.

    **Strategic Integrated Projects - Climate Action**

    4. Urban or community-based action plans pioneering the transition to a climate neutral and/or climate resilient society, including climate-neutral cities plans and actions**, for instance in the context of the EU Mission 'Climate neutral and smart cities'** and Sustainable Urban Mobility Plans.

  - **Connecting Europe Facility**

    The assessment of the award criterion "Priority and urgency" will, where relevant, also take into account:

    - the new situation created by the Russian war of aggression against Ukraine;
    - the Commission communication on Solidarity Lanes (COM/2022/217/Final);
    - the "100 Climate Neutral and Smart Cities" announced by the Commission on 28 April 2022.

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# Get in touch with NetZeroCities!

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