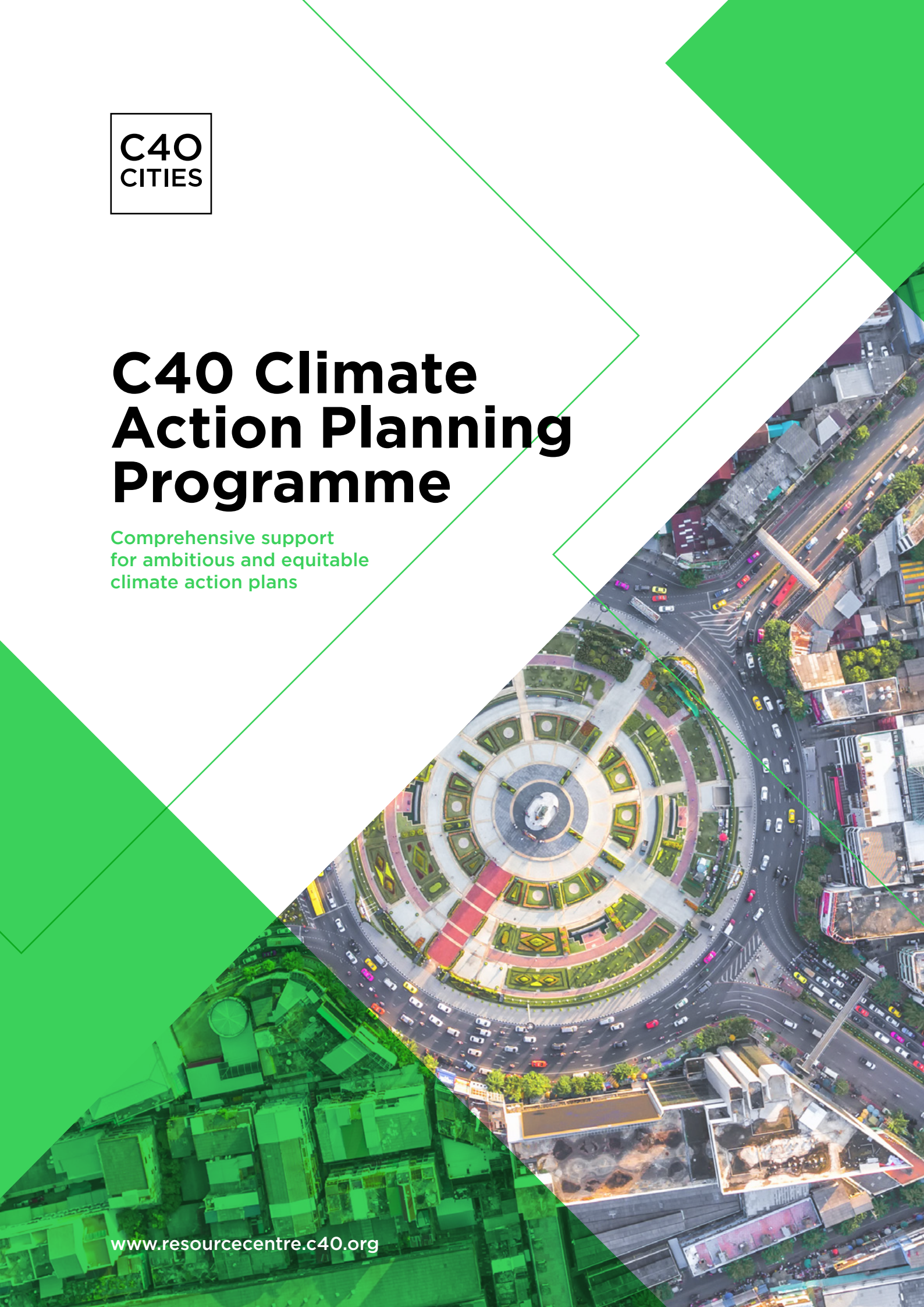


**C40
CITIES**

C40 Climate Action Planning Programme

Comprehensive support
for ambitious and equitable
climate action plans

www.resourcecentre.c40.org





WELCOME



In 2016, nations ratified a global agreement on climate change, the Paris Agreement, committing to ambitious efforts to keep global average temperature rise to well below 2°C above pre-industrial levels, and to pursue efforts to limit temperature rise to 1.5°C. The Paris Agreement also commits to increasing the resilience of countries to the impacts of climate change.

Delivering on the objectives of Paris Agreement will require all C40 cities to take transformational actions to reduce vehicular emissions, improve building energy efficiency, increase the supply of green energy, and change consumption patterns, while strengthening the ability to deal with the impacts of climate change through adaptation.

Our aim is that every C40 city should have developed and begun implementing a climate action plan before the end of 2020, which will deliver action consistent with the objectives of the Paris Agreement. A climate action plan should address the need to reduce greenhouse gas (GHG) emissions, adapt to the impacts of climate change and deliver wider social, environmental, and economic benefits.

C40's Climate Action Planning Programme is designed to help cities develop or update their climate action plans in line with the objectives of the Paris Agreement. The technical assistance, delivered by C40 in partnership with expert city climate planners, covers a wide range of support including training, workshops, peer-to-peer collaboration, stakeholder engagement, planning tools, research and much more.

DEADLINE 2020



Deadline 2020, launched at the C40 Mayors Summit in Mexico City in 2016, identifies C40 cities' share of the remaining global carbon budgets to 2100, for 1.5°C and 2°C scenarios. The report presents a detailed pathway of what C40 cities' need to do to play their part in converting the COP21 Paris Agreement from aspiration into reality.

To remain within a 1.5°C rise, average per capita emissions across C40 member cities need to drop from over 5 tCO₂e per capita today to around 2.9 tCO₂e per capita by 2030. For wealthier, high emitting cities that means an immediate and steep decline in current emission levels. Many rapidly developing cities can maintain their current levels for up to a decade, and in a small number of cases there

is some scope for emissions per person to rise slightly before they fall to zero. In all cases, cities must diverge considerably from their current business-as-usual emissions trajectories.



01 | What is a climate action plan?

A climate action plan is a strategic document (or series of plans and documents) that demonstrates how a city will deliver on its commitment to address climate change. In the context of the Paris Agreement, C40 defines a climate action plan as outlined below.

A climate action plan will:

- 1** ♦ Develop a pathway to deliver an emissions neutral city by 2050 at the latest, and set an ambitious interim target and/or carbon budget.
- 2** ♦ Demonstrate how the city will adapt and improve its resilience to the climate hazards that may impact the city now, and in future climate change scenarios.
- 3** ♦ Detail the wider social, environmental and economic benefits expected from implementing the plan, and improve the equitable distribution of these benefits to the city's population.
- 4** ♦ Outline the city's governance, powers and the partners who need to be engaged in order to accelerate the delivery of the city's mitigation targets and resilience goals.

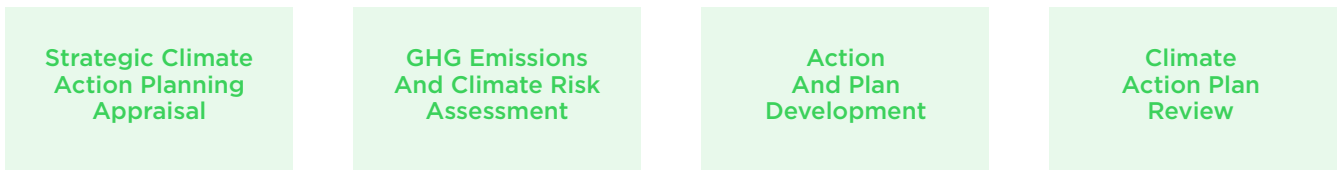
A city will do this by:

- ♦ Considering adaptation and mitigation in an integrated way, identifying interdependencies to maximise efficiencies and minimise investment risk.
- ♦ Setting an evidence-based, inclusive and deliverable plan for achieving transformational mitigation and adaptation, centred on an understanding of the city's powers and wider context.
- ♦ Establishing a transparent process to monitor delivery, communicate progress, and update climate action planning in line with governance and reporting systems.



02 Introduction to climate action planning

The C40 Climate Action Planning Programme consists of four elements:



The programme starts with a strategic appraisal of a city's past and present work on climate action to help identify those areas where further support from C40 will make the most effective contribution to the development of a robust climate action plan.

This is followed by a comprehensive programme of support and access to technical expertise, helping cities to measure and forecast GHG

emissions; identify and assess current and future climate risks; and prioritise and develop the actions necessary to deliver on the objectives of the Paris Agreement.

The final stage consists of an independent review of a city's updated climate action plan against C40's Climate Action Planning Framework.

C40 Climate Action Planning Programme



03

Climate action planning framework

C40's Climate Action Planning Framework sets out the essential components of a climate action plan that is deemed to be compatible with the objectives of the Paris Agreement, according to the three pillars below.

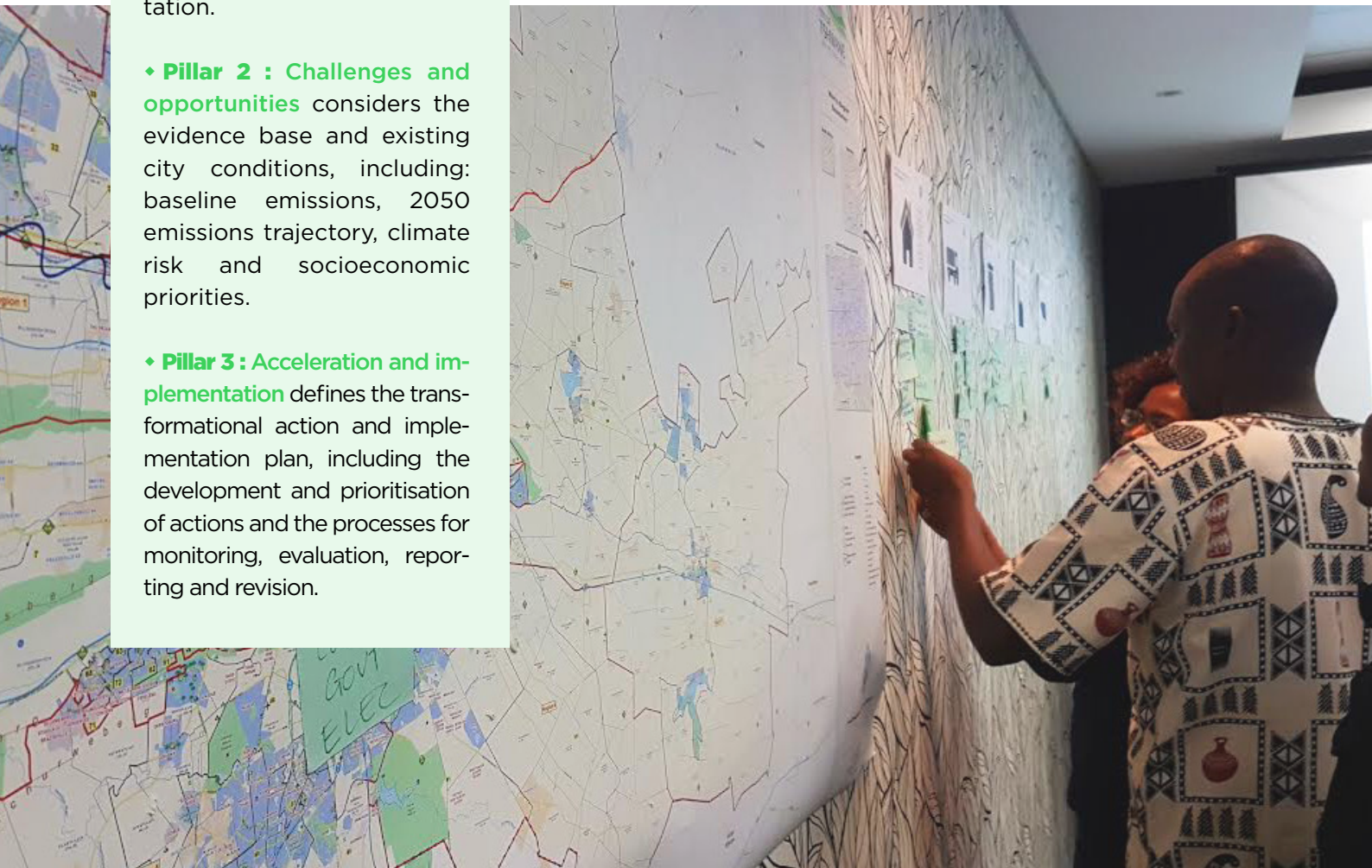
◆ **Pillar 1 : Commitment and collaboration** focuses on the governance and coordination of the plan (including relationships with national policy and city powers) and the need for community and business engagement, and communications, throughout the climate action plan's development and implementation.

◆ **Pillar 2 : Challenges and opportunities** considers the evidence base and existing city conditions, including: baseline emissions, 2050 emissions trajectory, climate risk and socioeconomic priorities.

◆ **Pillar 3 : Acceleration and implementation** defines the transformational action and implementation plan, including the development and prioritisation of actions and the processes for monitoring, evaluation, reporting and revision.

The framework is designed to be flexible, recognising the diversity of cities and their individual contexts. Each pillar highlights *Essential* elements of the plan, allowing cities to easily identify the components that should be included in their climate action plan to align with the Paris Agreement. *Go further* elements are provided as guidance on how to strengthen climate action plans in current or future iterations.

C40's Climate Action Planning Framework will be used as part of the Strategic Climate Action Planning Appraisal, and the Climate Action Plan Review.



04 | Technical assistance

C40 will assist cities through the provision of direct support and the development of a range of tools and resources. The latter will be available to all C40 and non-C40 cities through the Climate Action Planning Resource Centre, and are described in detail in Appendix 2.

DIRECT SUPPORT

♦ C40 City Adviser

Funded member of staff embedded within the city government for up to two years to support the coordination and development of the climate action plan, as well as facilitate knowledge transfer across the city and C40 network

♦ Technical support and training

Access to city climate planning experts for technical advice and training

♦ In-city workshops

Capacity-building workshops targeted at a broad group of city staff from key departments across the city government

♦ Regional academies

Workshops for C40 City Advisers to enable them to share ideas and experiences, and establish a network of regional climate planning experts

♦ Help desk

Ongoing access to technical support via email and phone

♦ Peer-to-peer collaboration

Regular webinars and opportunities to interact with climate planners in other cities

♦ Online learning platform

Dedicated Climate Action Planning Resource Centre, providing access to a wide range of tools and resources, including C40's Climate Action Planning Framework

♦ C40 initiatives and networks

City-only working groups focused on priority areas for climate action



**CLIMATE ACTION PLANNING
RESOURCE CENTRE**

WWW.RESOURCECENTRE.C40.ORG



The Climate Action Planning Strategic Appraisal is designed as a starting point for cities to determine the extent to which their current and/or planned climate targets, policies, plans and programmes are consistent with the objectives of the Paris Agreement. It involves the gathering and analysis of information that can be used to inform the development or updating of a climate action plan.

The appraisal consists of eight components, which have been structured to feed baseline information directly into C40's City Climate Action Planning Framework:

- ◆ Vision & Commitment and Governance & Powers Review
- ◆ Goals, Targets and Policy Context Review
- ◆ City Context
- ◆ Emissions Baseline & Trajectories
- ◆ Climate Hazards, Risks & Impacts
- ◆ Climate Actions Baseline
- ◆ Stakeholder Mapping
- ◆ SWOT Analysis

This final step in the process involves an assessment of the implications of the baseline information for the city's climate action planning process. The outputs of a SWOT Analysis will include a set of strategic recommendations for the city's climate action planning process. They will also help to identify those areas where further support from C40 will make the most effective contribution to the development or updating of the climate action plan.

The process of undertaking the Climate Action Planning Strategic Appraisal is as important as the outputs it produces. It should be undertaken in a consultative manner, facilitating an initial level of engagement with stakeholders across multiple-sectors that can be built on later when the climate action plan is being developed.





Following the Strategic Climate Action Planning Appraisal, C40 will support cities to update and/or develop their evidence base on city-wide GHG emissions and current and future climate risks. This is key for prioritising actions, setting goals and targets, and measuring progress. C40 will provide the following support:

GHG emission inventory

Review and development of a city-wide GHG emissions inventory in line with the requirements of the Global Protocol for Community-Scale GHG Emission Inventories

GHG emissions scenarios

Review and development of business-as-usual emissions forecasts till 2050 and city-specific emissions reduction trajectories

Adaptation masterclass and leadership symposium

Training for policymakers on the basics of adaptation planning, and capacity building of decision-makers on adaptation planning

Climate risk assessment

Identification and assessment of current and future climate hazards, and city-specific risk analysis

Stakeholder mapping

Stakeholder mapping and analysis, and identification of engagement strategies

Policy analysis

Identification and analysis of links, synergies and integration between climate action planning objectives and non-climate city policies

TOOLS AND RESOURCES

- ◆ GPC GHG inventory standard
- ◆ CIRIS GHG inventory tool
- ◆ Pathways and CURB scenario planning tools
- ◆ Deadline 2020 research report
- ◆ The Future We Don't Want research report
- ◆ Stakeholder engagement guide*
- ◆ Opportunity 2030 research report

* Due late 2018 / early 2019





Mitigation and adaptation actions should be prioritised based on the greatest impact, inclusive benefits and on their ability to fulfil city objectives, and developed with the participation of the community and partners. The plan should set out how these actions will be delivered and lead to a measurable impact, and identify the funding and human resources needed for implementation. C40 will provide the following support:

ADAPTATION ACADEMY

The Adaptation Academy is C40's flagship training programme on climate hazards, risk assessments and city resilience. It consists of an Adaptation Masterclass which provides training for policymakers on the basics of adaptation planning, and a Leadership Symposium which focuses on capacity building of decision-makers on adaptation planning. The Adaptation Academy is based in Rotterdam. A more detailed description is provided in Appendix 1.

Action prioritisation

Identification of criteria to prioritise climate actions; and development, assessment and selection of strategic options for mitigation and adaptation

Action definition

Development of actions based on strategic priorities, including identification of GHG and non-GHG impacts, milestones, costs and financing, stakeholders, benefits and risk

Scenario modelling

Updated GHG emissions and climate risk modelling based on selection of strategic actions

Stakeholder engagement

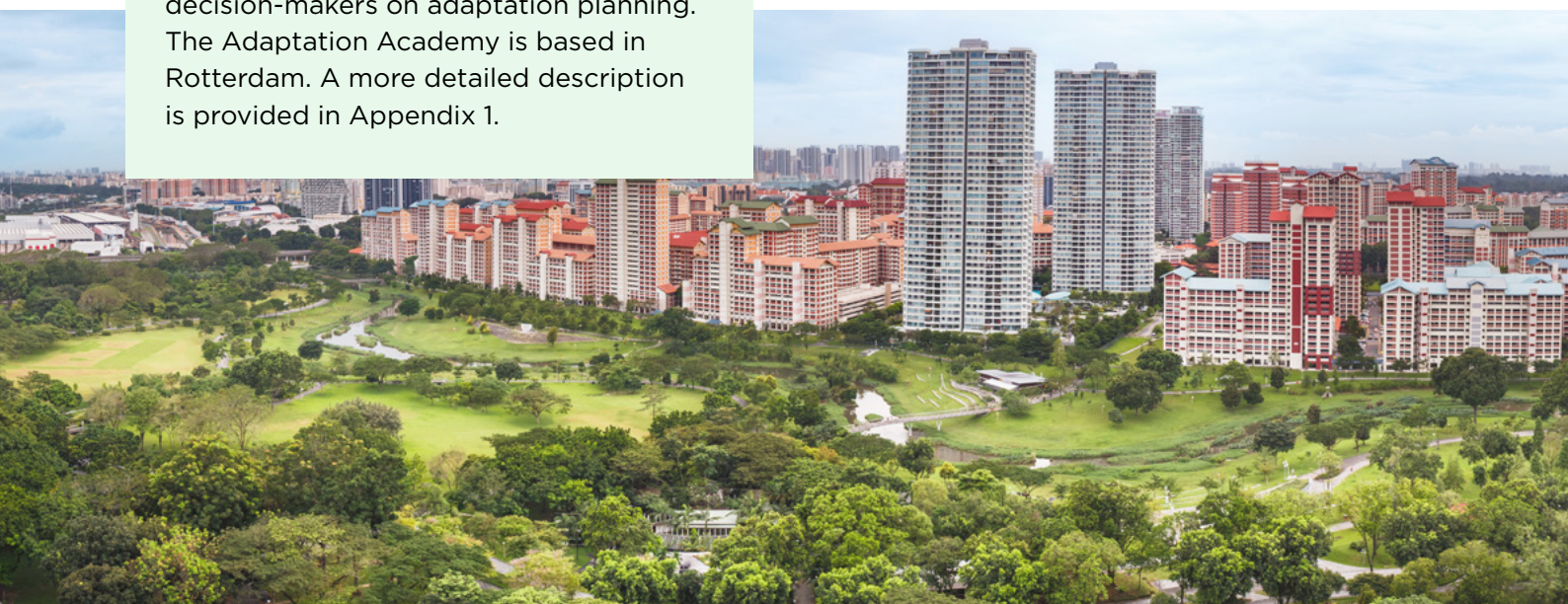
Identification and development of stakeholder engagement strategies

Benefits assessment

Guidelines and methodologies to identify and measure the wider social, environmental and economic benefits of climate action

Inclusivity review

Inclusivity review of climate actions, considering access, fairness, equity and engagement





Interaction analysis

Insights into the potential interactions between adaptation and mitigation actions and policies which will help maximise the opportunities for mutual reinforcement and minimise the potential risks and conflicts between the two

Governance framework

Review of governance structures for effective climate action to create ownership, facilitate mainstreaming and ensure clarity about roles and responsibilities

Vertical integration

Process for engagement and collaboration with national and other tiers of government to share status of climate action at city level and encourage support for city action

Implementation plan

Compilation of all relevant information into the written climate action plan in an accessible and comprehensive way

Monitoring and evaluation

Establishment of results-based monitoring and evaluation system to track and communicate progress

Communications

Development of a communications strategy for launch and delivery of the climate action plan, and support with design and translation of the climate action plan

TOOLS AND RESOURCES

- ◆ Climate Action Planning Framework
- ◆ Focused Acceleration roadmap report
- ◆ Pathways and CURB scenario planning tools
- ◆ Action prioritisation tool*
- ◆ Project-level accounting tool*
- ◆ Benefits & Inclusivity guides*
- ◆ Synergies identification tool*
- ◆ Communications toolkit*

* Due late 2018 / early 2019





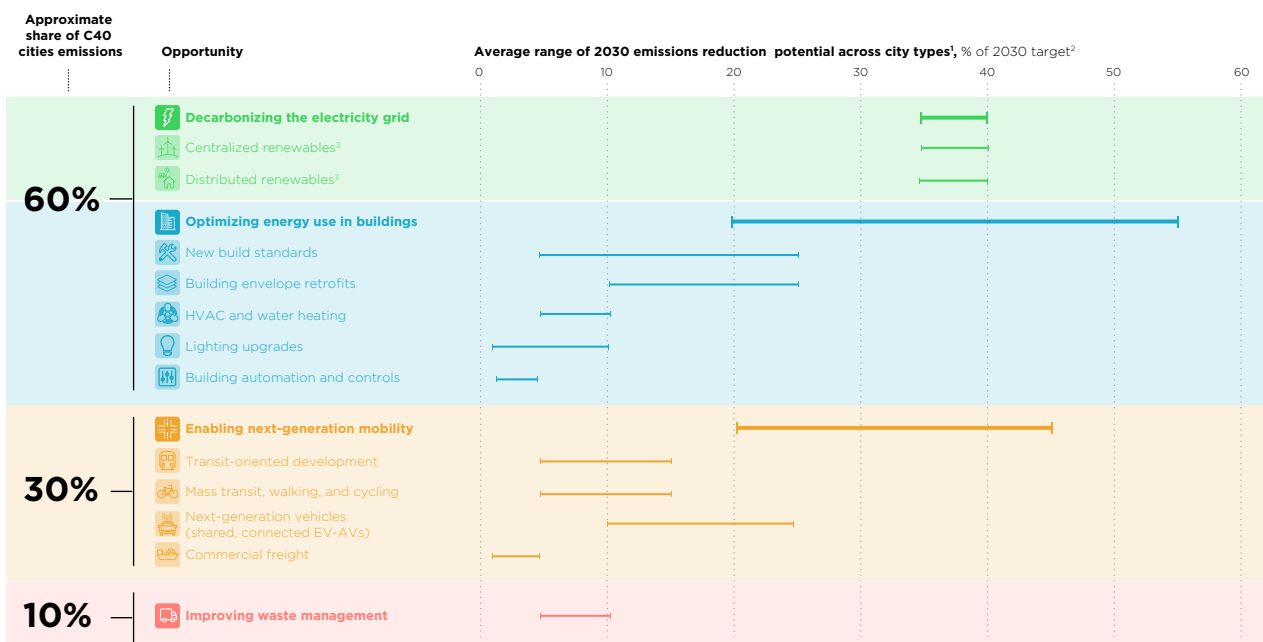
FOCUSED ACCELERATION

C40 has partnered with The McKinsey Center for Business and Environment to quantitatively assess the biggest opportunities for emissions reduction and what they will mean for different types of cities around the world. The report, *Focused Acceleration: A strategic approach to climate action in cities to 2030*, analyses the biggest opportunities for cities to accelerate the reduction of their carbon emissions, which means prioritising actions that catalyse systemic change.

It recommends cities focus and accelerate their efforts on 12 opportunities across four action areas that have the greatest potential in most global cities to curb emissions and put cities on a 1.5°C pathway through 2030: (1) Decarbonising

the grid with large-scale renewable power generation; (2) Optimising energy efficiency in buildings; (3) Enabling next-generation mobility; and (4) Improving waste management. Together, these opportunities can help cities achieve 90 to 100 percent of their 2030 emissions reduction target(s) and build the knowledge and capabilities needed to reach net zero GHG emissions by 2050.

All the opportunities identified also provide a positive return on investment in the mid- to long-term, whether through direct cash flow for investors or broader boosts to economic activity in the city. For many opportunities, up-front investments are paid back within five to ten years.



1. Emissions reduction potential as modeled for a "focused acceleration" scenario across 6 illustrative city types, with highest and lowest outliers removed.
 2. 2030 target is based on *Deadline 2020* pathways for specific city types.
 3. Percentages given are for system level mix. Balance between centralized and distributed generation will vary by region.
 SOURCE: McKinsey analysis



A Climate Action Plan Review is conducted to confirm that a city's final or draft climate action plan (or plans) meets the essential elements of C40's Climate Action Planning Framework.

This involves a detailed review (by C40 or partner) of the climate action plan, and other relevant documentation, against the essential elements of the Climate Action Planning Framework, and is conducted in partnership with the city.

The Climate Action Plan Review can qualify a climate action plan as being compatible with C40's Climate Action Planning Framework if all essential elements are met. If any remaining gaps are identified, C40 will provide focused recommendations to update the climate action plan to align with the objectives of the Paris Agreement.

“

Aligning NYC's Climate Action plan with C40's framework will add to the collective impact of all cities, and ultimately to achieving the goals of the Paris Climate Agreement. We appreciate C40's partnership and the valuable insights from their independent review.”

Mark Chambers

Director, Mayor's Office of Sustainability



05 | Inclusive climate action

Climate change is inextricably linked to the challenges of eradicating poverty and creating a more equitable world. For example, 10% of the global population generate more than 50% of global GHG emissions, whilst large proportions of the urban population continue to lack access to basic services and are very prone to climate hazards. In this context, it becomes clear that it is impossible to tackle climate change without also tackling inequality, and vice-versa.

Climate actions bring wider social, environmental and economic benefits, such as air quality improvement, low cost renewable energy and employment opportunities.

Delivering on the Paris Agreement, therefore, presents a unique opportunity to follow a low-carbon and climate resilient development path and create a more inclusive urban society, with new opportunities for the groups that have been historically marginalised by the fossil fuel economy.

A key part of the C40 Climate Action Planning Programme is to help cities to make the case and build consensus for climate action, and to ensure that climate actions are fair and equitable. Specifically, C40 will support cities to ensure:

- ◆ A wide range of communities and stakeholders are engaged in the development of a climate action plan (*inclusivity of the process*)
- ◆ There is fairness and accessibility in design and delivery of climate actions (*inclusivity of the policy*)
- ◆ The wider benefits of climate action are distributed as equitably as possible (*inclusivity of the impact*).



06 | How to join

To join C40's Climate Action Planning Programme, a city will need to commit to developing and begin implementing a climate action plan before the end of 2020 that will deliver action consistent with the objectives of the Paris Agreement, addressing the need to reduce GHG emissions, adapt to the impacts of climate change, and deliver wider social, environmental, and economic benefits.

For more information, please contact your Regional Director or visit the Climate Action Planning Resource Centre.

Cities that are not part of the C40 network can register their commitment to the objectives of the Paris Agreement online at www.resourcecentre.c40.org or through the Global Covenant of Mayors for Climate and Energy. All resources provided on the Climate Action Planning Resource Centre are publicly available and for use by all cities.





APPENDIX 1



**Detailed descriptions
of technical assistance**

GHG EMISSIONS INVENTORY

Description

Review and development of a city-wide GHG emissions inventory in line with the requirements of the Global Protocol for Community-scale GHG Emission Inventories (GPC). This includes a gap analysis of any existing inventories; a workshop to introduce the GPC, build capacity among the inventory team and identify data needs and data sources; and further technical training and support to enable the development of a robust inventory. On completion C40 will review the inventory to confirm it meets the requirements of the GPC and C40's Participation Standards.

Recommended city teams

- Inventory team
- Technical leads (energy, transport, waste)
- Key data providers

Format

Workshop, technical help desk

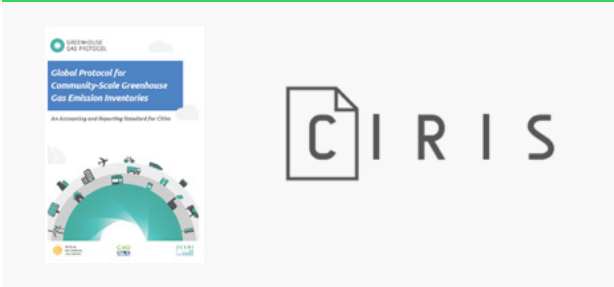
Input

Draft GHG inventory and / or city activity data

Output

Completed city-wide GPC-compliant GHG inventory in CIRIS, data inventory management plan

RESOURCES



2050 GHG EMISSIONS REDUCTION SCENARIOS

Description

Review and development of a business-as-usual emissions forecast; review of city-specific findings from the Deadline 2020 analysis; and development of city-specific emissions reduction scenarios to 2050. This allows cities to better understand future emissions trends in the absence of a (new) climate action plan, and to explore which actions the city and partners may take to meet different emissions reductions targets. This can be used to make decisions about which policies and programmes cities may wish to include in their (new) climate action plan.

Recommended city teams

- Climate action plan development team
- Technical leads (energy, transport, waste)
- Key data providers

Format

Workshop, technical help desk

Input

GHG emissions inventory, socio-economic data for city, Strategic CAP appraisal report, NDC

Output

City-specific emissions forecasts and reduction scenarios to 2050

RESOURCES



CLIMATE RISK ASSESSMENT

Description

Identification and assessment of current and future climate hazards, and city-specific risk analyses. A climate risk assessment seeks to understand the likelihood of future climate hazards and the potential impacts of these hazards on cities and their inhabitants. This is fundamental information for prioritising action and investment into climate adaptation and resilience.

Recommended city teams

- Technical leads
- Utilities
- Key asset holders

Format

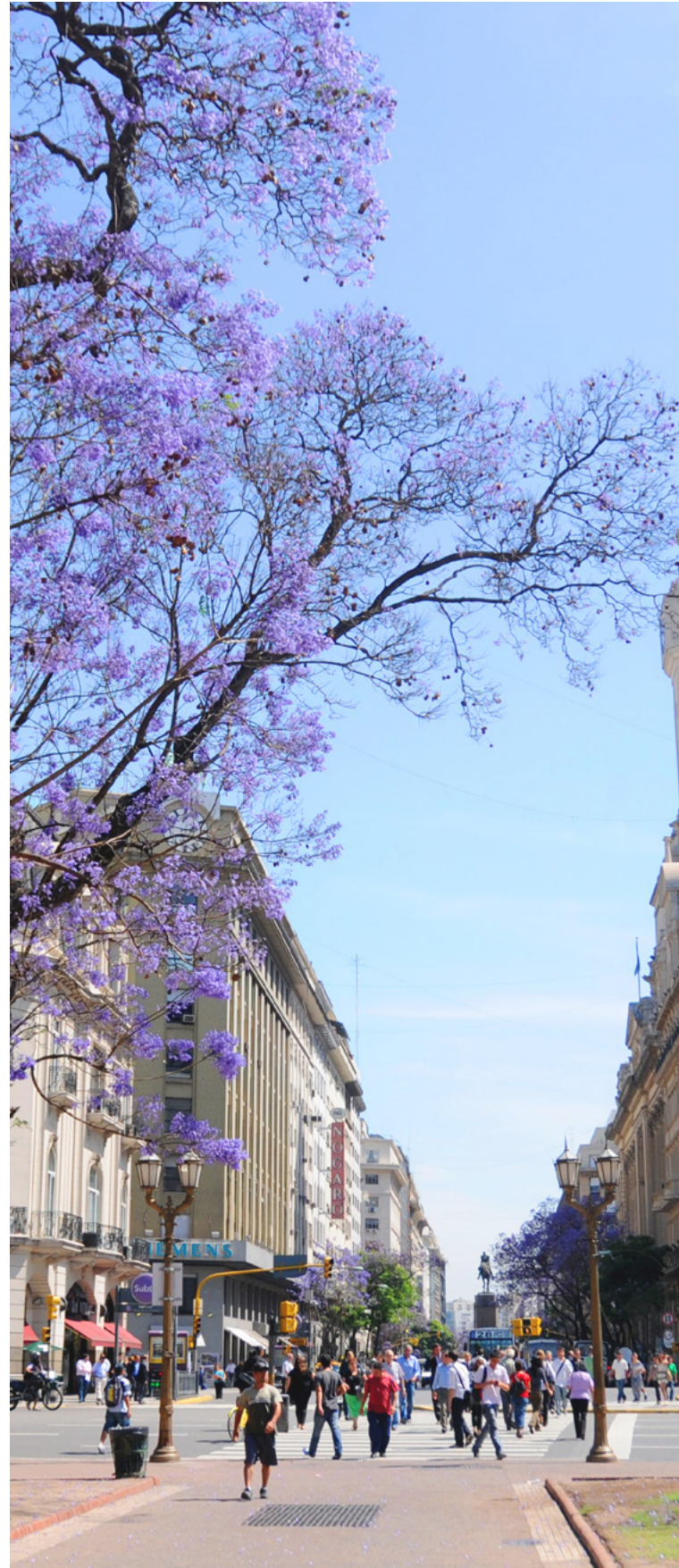
Technical assistance

Input

City data on current and future climate risks; socio-economic, demographic and urban trends and scenarios; vulnerable sectors, assets, interdependencies, services and groups; and adaptive capacity

Output

Climate risk and vulnerability assessment



ADAPTATION ACADEMY MASTER CLASS

Description

This course seeks to provide teams with technical training to create and implement their unique adaptation strategy by walking participants through the process from start to finish – risk assessment, strategic planning, implementation, and monitoring. Attendees will participate in interactive exercises to apply newly acquired knowledge to their city. This allows city staff to receive tailored training on the dimensions of protecting their city against climate hazards.

Recommended city teams

- Adaptation team leadership and representatives from their departments such as health, water, land-use planning, transportation, and emergency services

Format

3-4 day training in Rotterdam, the Netherlands

Output

Basic understanding of climate adaptation planning

LEADERSHIP SYMPOSIUM

Description

This condensed full or half-day programme targets a city's decision-makers, such as elected officials and directors. This course focuses on accelerating adaptation planning and implementation. Topics include: methods to generate commitment and support, policy integration, financing, stakeholder engagement, and internal governance mechanisms.

Recommended city teams

- Elected officials
- Directors

Format

- Full or half day programme linked to international events, e.g. C40 Mayors Summit
- Focus on exchange of best practices and lessons learned between leaders

Output

Inspiration to accelerate adaptation planning and action



POLICY ANALYSIS

Description

Identification of key political priorities and analysis of synergies with priority plans or strategies that are not strictly related to climate, but to socio-economic sectors (in particular strategies related to low-income districts and social inclusion). The work starts with the initial strategic appraisal, but may need specific and more in depth analysis on the basis of the identified city priorities.

Recommended city teams

- All key departments such as economic development, social affairs, culture, urban planning, finance, media and communications, and chief resilience officers

Format

Document review, technical help desk

Input

City plans and strategies

Output

High level understanding of the correlation between the city's climate goals and other political priorities and related policies (a brief report can be produced if needed)

STAKEHOLDER MAPPING

Description

Identification and mapping of all relevant local stakeholders; analysis of stakeholders on the basis of interest, sector, influence etc.; and initial identification of engagement goals and timeline.

Recommended city teams

- All key departments and utilities, such as economic development, social affairs, culture, urban planning and media

Format

Workshop, technical help desk

Input

Typologies and names of stakeholders, stakeholders' interests, city's engagement needs and goals

Output

A map of relevant stakeholders and stakeholder analysis according to different criteria (interest, sector, influence etc.)

RESOURCES



Stakeholder engagement guide
Due late 2018 / early 2019

ACTION PRIORITISATION

Description

Identification of priority actions for reducing city emissions and managing climate risks in line with the objectives of the Paris Agreement and the city's development priorities. This includes identification and analysis of a long list of potential actions drawing on international best practice and city-specific context and priorities. The development of an action prioritisation framework helps to evaluate and select key strategies. This can be used to ensure that the best actions are selected for more detailed definition and refinement in the climate action plan.

Recommended city teams

- Climate action plan development team
- Technical leads

Format

Workshop, technical help desk, peer-to-peer knowledge exchange

Input

Inventory, risk assessment, socio-economic data for city

Output

Action prioritisation framework, priority actions list

RESOURCES



Action prioritisation tool
Due late 2018 / early 2019

ACTION DEFINITION

Description

Definition and refinement of priority policies, programmes and projects for inclusion in the climate action plan. This includes support to develop and refine actions and analyse the anticipated impacts using the causal chain approach (e.g. GHG, air quality, jobs) as well as any synergies, costs, barriers and risks. Definition of financing and implementation mechanisms follows. The findings support further refinement of city scenarios and engagement with relevant stakeholders and implementation partners.

Recommended city teams

- Climate action plan development team
- Technical leads

Format

Workshop, technical help desk, peer-to-peer knowledge exchange

Input

Priority actions list

Output

Detailed action definitions

RESOURCES



Project-level accounting tool
Due late 2018 / early 2019

BENEFITS ASSESSMENT

Description

A benefits assessment complements the action definition by providing a more tailored and bottom-up approach to estimating the non-GHG impacts of priority actions. Support includes guidelines, mapped causal chains, advice on sourcing data, methodologies for estimating local activity multipliers and case studies and lessons learned from other cities.

Recommended city teams

- Climate action plan development team
- Technical leads
- Key data providers

Format

Workshop, technical help desk, peer-to-peer knowledge exchange

Input

Priority actions list, city data (socio-economic, demographic, geographic, environmental)

Output

Benefits analysis (socio-economic impact assessment)

RESOURCES



Benefits guide

Due late 2018 / early 2019

INCLUSIVITY REVIEW

Description

Training to guide city officials in considering critical questions to address and criteria to consider to improve the fairness and accessibility of climate action planning. The guide will also provide a set of indicators that can support monitoring and evaluation.

Recommended city teams

- Climate action plan development team
- Technical leads
- Social affairs department

Format

Workshop, technical help desk, peer-to-peer knowledge exchange

Input

Priority actions list, key social challenges

Output

Climate actions analysis, prioritisation criteria, inclusivity indicators

RESOURCES



Inclusivity guide

Due late 2018 / early 2019

STAKEHOLDER ENGAGEMENT

Description

Throughout all stages of developing the climate action plan there is a need to seek stakeholder input. Stakeholder mapping will have identified the stakeholders to be involved in this process. Stakeholder engagement builds on this by identifying the engagement needs of different stakeholders and developing options to involve them in order to: better integrate local communities in the development and delivery of the climate action plan, increase support for the climate action plan, and facilitate delivery once the climate action plan is launched. Options for stakeholder engagement include: sector-specific working groups, individual / tailored stakeholder collaboration, information sessions, surveys, and review panels.

Recommended teams

- Climate action plan development team
- Technical leads
- Utilities
- Citizen/community engagement offices or equivalent

Format

Workshop, technical help desk, peer-to-peer knowledge exchange

Input

Stakeholder mapping, engagement needs and goals, information on potential conflicts arising from climate action plan development and implementation, capacity to deliver participatory processes in the city

Output

Stakeholder engagement plan

RESOURCES



Stakeholder engagement guide
Due late 2018 / early 2019

COMMUNICATING CLIMATE ACTION

Description

Each city should have a strategy to coordinate the communication and dissemination of their climate action plan and targets. A good communications strategy will help raise awareness and secure support from internal and external stakeholders and citizens, and include outreach during the planning stage, the release of the climate action plan as well as the implementation of the climate action plan. The process should involve the city's media team and the different technical departments involved in the development of the climate action plan.

Recommended teams

- Climate action plan development team
- Technical leads
- Utilities
- Media, communications and international relations teams

Format

Workshop, technical help desk, peer-to-peer knowledge exchange

Input

Stakeholder engagement plan

Output

Climate action plan communications strategy

RESOURCES



Communications toolkit
Due late 2018 / early 2019

INTERACTION ANALYSIS

Description

Assessment of policy interactions and integration of mitigation and adaptation actions. All actions should seek synergies between mitigation and adaptation interventions to actively leverage interactions between them, and aim for the overall fair and equitable distribution of social, environmental and economic benefits to communities. The integration of mitigation and adaptation actions aims to maximise efficiencies and minimise investment risk.

Recommended teams

- Climate action plan development team
- Technical leads
- Social affairs department

Format

Workshop, document review, peer-to-peer knowledge exchange

Input

Existing and proposed mitigation and adaptation actions and scenarios

Output

Assessment of relationships and synergies between mitigation and adaptation actions

RESOURCES



Synergies identification tool
Due late 2018 / early 2019

MONITORING AND EVALUATION

Description

Establishing results-based monitoring and evaluation system to provide information on progress, and enable effective oversight and management of climate action plan. Monitoring against set performance indicators will help to highlight any challenges which may have knock-on impacts on the delivery of related actions. This will enable the city to address challenges and to update the delivery timeline.

Recommended teams

- Climate action plan development team
- Technical leads
- Key data providers

Format

Workshop, technical help desk, peer-to-peer knowledge exchange

Input

Priority actions list

Output

Monitoring and evaluation strategy, performance indicators

VERTICAL INTEGRATION

Description

Establishing a process for engagement and collaboration between city, national and other tiers of government to accelerate climate action. Effective dialogue, sharing of data and aligning of climate objectives can facilitate access to finance, strengthen capacity, unlock policy synergies and avoid conflicting incentives. This process includes developing a strategy for enhancing engagement between city, national and other tiers of government during the development and subsequent implementation of the climate action plan.

Recommended teams

- Climate action plan development team
- National government liaison team

Format

Workshop, expert support, peer-to-peer knowledge exchange

Input

Priority actions list, detailed action definitions, review of NDC

Output

National government engagement strategy

RESOURCES



National framework for vertical integration of city climate action

Due late 2019

IMPLEMENTATION PLAN

Description

Compiling all relevant information into the written climate action plan in an accessible and comprehensive way that aligns with the C40 CAP Framework. The process involves establishing a narrative for the plan, ensuring it is linked to the local context and aligned with local priorities. This involves structuring the document, describing governance arrangements, actions, prioritisation methods, roles and responsibilities, financing and delivery mechanisms, monitoring and reporting systems, and engagement and communication approaches.

Recommended teams

- Climate action plan development team
- Technical leads

Format

Workshop, technical help desk, peer-to-peer knowledge exchange

Input

All components of the climate action plan

Output

Draft climate action plan



APPENDIX 2



Detailed descriptions
of tools and resources

GPC GHG INVENTORY STANDARD



Description

A city's ability to take effective action on mitigating climate change, and monitor progress, depends on having access to good quality data on GHG emissions. A city-wide GHG inventory enables cities to measure their overall emissions, as well as understand the contribution of different activities within the city.

The Global Protocol for Community-Scale Greenhouse Gas Emission Inventories enables a consistent, transparent and internationally recognised approach for cities to measure and report emissions, allowing for credible comparison and aggregation across timescales and geographies.

PROJECT-LEVEL ACCOUNTING TOOL*

Description

A project-level accounting tool to help cities quantify the anticipated (ex-ante) and actual (ex-post) GHG emissions reductions and non-GHG impacts from a range of different actions in an accurate, consistent, transparent, complete and relevant way.

The tool helps policymakers develop effective strategies for managing and reducing GHG emissions through a better understanding of the emissions impacts of actions. It supports transparent reporting and creates international consistency in the way GHG emissions from actions are reported.

* Due late 2018 / early 2019

CIRIS GHG INVENTORY TOOL



Description

CIRIS (City Inventory Reporting and Information System) is an easy-to-use tool for managing city greenhouse gas emissions inventory data. Based on the Global Protocol for Community-Scale Greenhouse Gas Emission Inventories standard, the tool enables transparent calculation and reporting of emissions for all sectors. The tool includes five calculators to estimate emissions from challenging sources such as solid waste and waste water.

PATHWAYS AND CURB SCENARIO PLANNING TOOLS



Description

Pathways and CURB (Climate action for URBan sustainability) have been designed specifically to support cities as they develop strategic plans for tackling climate change.

The tools enable users to explore how city-wide GHG emissions may change over the period up to 2050, and understand the implications of different emission reduction pathways through exploration of the kinds of technology and policy changes needed across the energy, buildings, transport and waste sectors.

User-friendly interfaces and built-in databases support rapid assessment and support comparison of multiple scenarios while full customisation with city-specific data facilitates more robust analysis.

DEADLINE 2020 RESEARCH REPORT



Description

Deadline 2020 is the first significant routemap for achieving the Paris Agreement, outlining the pace, scale and prioritisation of action needed by C40 member cities over the next 5 years and beyond.

The Paris Agreement commits signatories to “holding the increase in the global average temperature to well below 2 degrees above pre-industrial levels, and to pursue efforts to limit the temperature increase to 1.5 degrees above pre-industrial levels.” Deadline 2020 presents a pathway of what C40 cities need to do to play their part in converting the COP21 Paris Agreement from aspiration into reality.

FOCUSED ACCELERATION ROADMAP REPORT



Description

‘Focused Acceleration’ presents a Delivery roadmap with guidance for cities on how to reduce emissions in line with the objectives of the Paris Agreement.

The Roadmap prioritises 12 opportunities across four action areas (electricity, energy efficiency in buildings, waste and mobility) that have the greatest potential in most global cities to curb emissions and put cities on a 1.5°C pathway through 2030. It recommends cities to pursue a strategy of ‘focused acceleration’ by concentrating on 12 high-value opportunities rather than by spreading efforts over hundreds of potential actions.

OPPORTUNITY 2030 RESEARCH REPORT



Description

This report presents analysis on the impacts of climate action through energy efficiency retrofit in residential buildings, enhanced bus networks and services, and district-scale renewable energy in major global regions, based on the development and utilisation of new impact assessment methodology tools.

The findings from this report present an evidence base for accelerated action for climate change mitigation measures. It equips city, national governments, private sector and citizens with several reasons for a joint collaborative effort toward the goals of low carbon development.

THE FUTURE WE DON'T WANT RESEARCH REPORT

Description

By 2050, cities across the globe will be faced with broad challenges as a result of climate change. More people will be at risk from these impacts as urban populations more than double from 1.4 billion people today to over 3.5 billion people by mid-century. Key findings from The Future We Don't Want analysis show that millions of urban residents will be vulnerable to changing climate conditions and thousands of urban-decision-makers will need to make their cities more resilient to withstand these challenges.

The Future We Don't Want research report was conducted to highlight what cities need to be prepared for over the next three decades, according to the best available science.

CLIMATE ACTION PLANNING FRAMEWORK



Description

C40's Climate Action Planning Framework outlines the components of a climate action plan that is deemed to be compatible with the objectives of the Paris Agreement.

The Framework was developed in collaboration with cities participating in C40's Climate Action Planning Pilot Programme. The framework is designed for flexibility, recognising the diversity of cities and their individual contexts.

C40's Climate Action Planning Framework outlines the components of a plan according to three pillars - commitment and collaboration, challenges and opportunities, and acceleration and implementation. Each pillar highlights essential elements of the plan, allowing cities to easily identify the components that should be included in their climate action plan to align with the Paris Agreement. Go further elements are provided as guidance on how to strengthen climate action plans in current or future iterations.

BENEFITS AND INCLUSIVITY GUIDES*

Description

A benefits analysis evaluates the non-GHG emissions impact of climate actions and is key to prioritise actions and make the case for ambitious climate investments. The benefits guide will support city officials and consultancies assess the climate action plan's wider benefits by providing methodologies, templates and a tailored process.

The Inclusivity review guide is a tool to guide city officials in considering critical questions they need to address and criteria they need to consider to improve inclusivity, accessibility and equity of climate action planning.

ACTION PRIORITISATION TOOL*

Description

The Action prioritisation tool helps cities to prioritise climate actions based on the impact on reducing GHG emissions or climate risk, the wider social, environmental and economic benefits, and the ability of the city to take, or otherwise, influence action. The first step is to develop a prioritisation framework based on a range of weighted criteria informed by the city's context, evidence base and powers. This is used to develop a priority actions list, from a wide range of possible interventions, and will ensure the highest-impact mitigation and adaptation actions are delivered first.

SYNERGIES IDENTIFICATION TOOL

Description

The Synergies identification tool helps cities to identify interactions between a wide range of climate change mitigation and adaptation actions. Interactions are classified as (1) Mal-investment: actions that can be undone or rendered less effective by the effects of climate change if they are not sufficiently resilient; (2) Synergies: actions that reduce both emissions and climate risk; (3) Trade-offs: actions with opposite effects on mitigation and adaptation, i.e., mitigation actions that increase risk or adaptation actions that increase emissions; and (4) Piggybacking: actions that are complementary when designed and/or implemented together, e.g., projects with opportunities to add additional mitigation or adaptation actions at a small marginal cost.

* Due late 2018 / early 2019

STAKEHOLDER ENGAGEMENT GUIDE*

Description

Engaging stakeholders and communities is key to effectively respond to people's needs and to build support for ambitious climate action.

The Stakeholder engagement guide supports cities to deliver and improve stakeholder and community engagement strategies while planning and delivering climate action. The guide explores stakeholder engagement techniques used in cities, best practices in leading cities; barriers to consider and how to face them, typologies of meetings, and outreach strategies.

COMMUNICATIONS TOOLKIT*

Description

Communicating for climate action can be challenging, considering the wide range, and technical nature, of content that needs to be communicated, the various target audiences and the many different communication channels available. Careful planning and outreach is critical to successfully engaging stakeholders in the development and implementation of a climate action plan.







The Communications Toolkit provides a comprehensive selection of resources that can easily be tailored to support cities generate and maintain interest in, and commitment to, their climate action plan. This includes guidance documents, templates, and case studies.



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