

EU- Kazakhstan: Sustainable Energy Days

International Conference

Sustainable Energy in Kazakhstan: Prospects and Challenges

Rixos President Astana Hotel, June 2, 2023

The Global Covenant of Mayors for Climate & Energy: support to cities energy transition through Climate Action Planning and projects development

Bilyana Chobanova,

Senior Green Buildings and Energy Transition Expert, GCoM



Global Covenant of Mayors for Climate & Energy(GCoM)



**Bloomberg
Philanthropies**



Co-funded by
the European Union

Bilyana Chobanova,
*GCoM, Senior Green Buildings and Energy
Transition Expert*

June 2, 2023



Emissions must peak before 2025 for 'liveable future', UN report says



Issued on: 04/04/2022 - 17:04



News Opinion Sport Culture Lifestyle

UK World **Climate crisis** Newsletters Football More



Climate crisis
Scientists deliver 'final warning' on climate crisis: act now or it's too late

IPCC report says only swift and drastic action can avert irrevocable damage to world

- **Analysis: Humanity at the crossroads**
- **Timeline: The IPCC's reports**

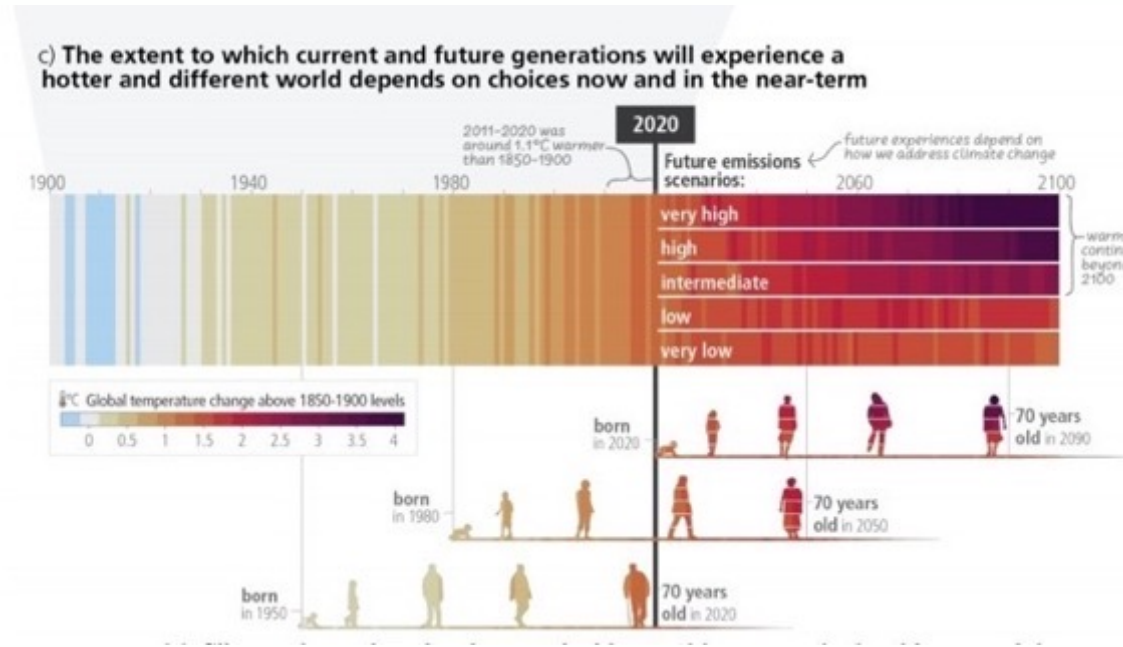
Fiona Harvey Environment editor

Mon 20 Mar 2023 13:00 GMT

The warning

Pace and scale of climate action are insufficient to tackle climate change

Sixth Assessment Report | Synthesis Report



"There is a rapidly closing window of opportunity to secure a liveable and sustainable future for all," says the report that people will tweet about for one, maybe two days tops.



IPCC @IPCC_CH · 6h

#IPCC #ClimateChange 2023: Synthesis Report "is a survival guide for humanity," says @UN SG @antonioguterres in the IPCC press conference today.

Follow live bit.ly/SYRPRcfe

Sixth Assessment Report SYNTHESIS REPORT

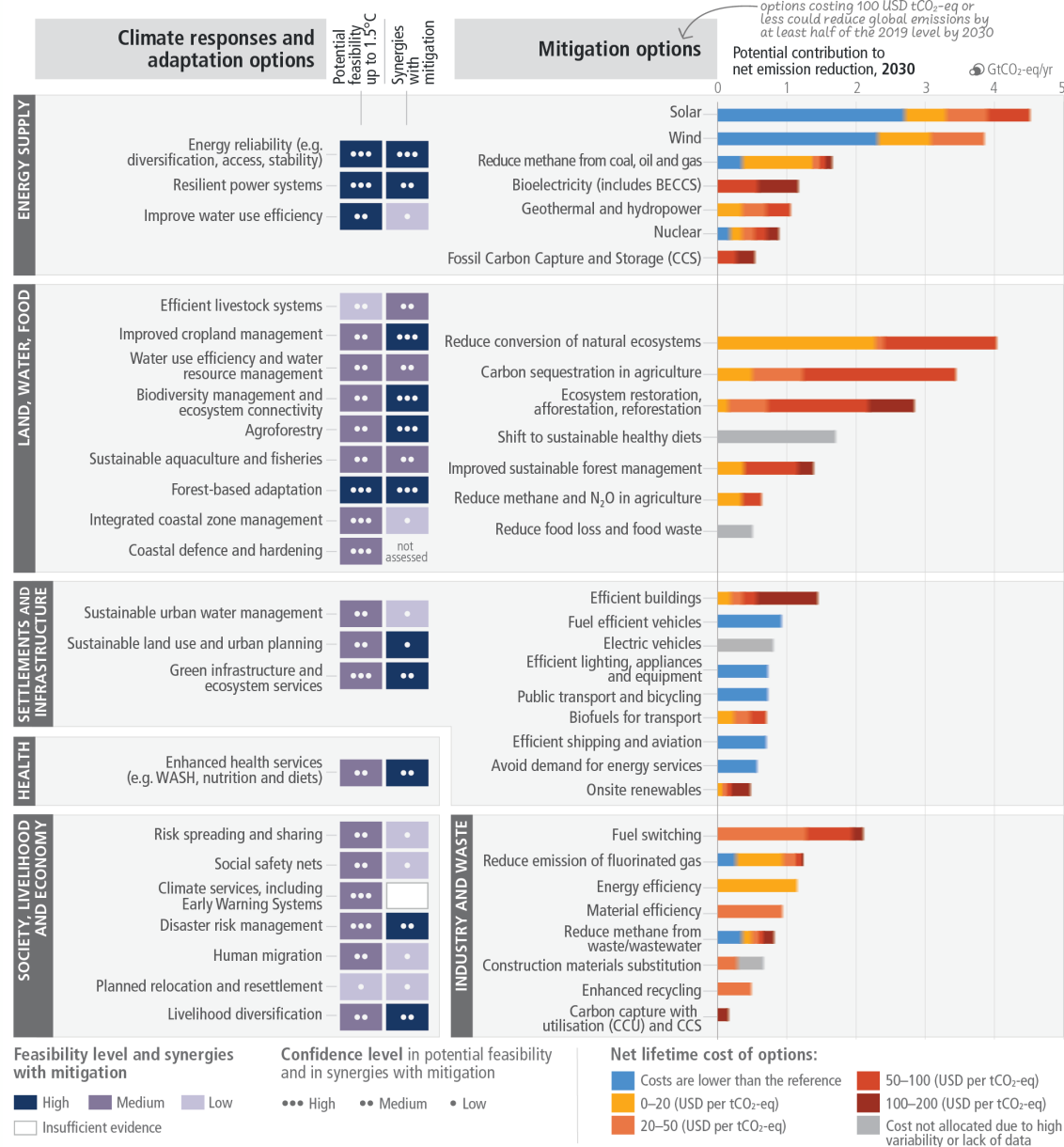
Today's IPCC report is a how-to guide to defuse the climate time-bomb

#IPCC #ClimateReport

151 889 1.222 203K

There are multiple opportunities for scaling up climate action

a) Feasibility of climate responses and adaptation, and potential of mitigation options in the near-term



AR6 Synthesis Report Climate Change 2023

Rapid and far-reaching **transitions across all sectors and systems** are necessary to achieve deep and sustained emissions reductions and secure a liveable and sustainable future for all. These system transitions involve a significant upscaling of a wide portfolio of mitigation and adaptation options. **Feasible, effective, and low-cost options for mitigation and adaptation are already available**, with differences across systems and regions. (high confidence).

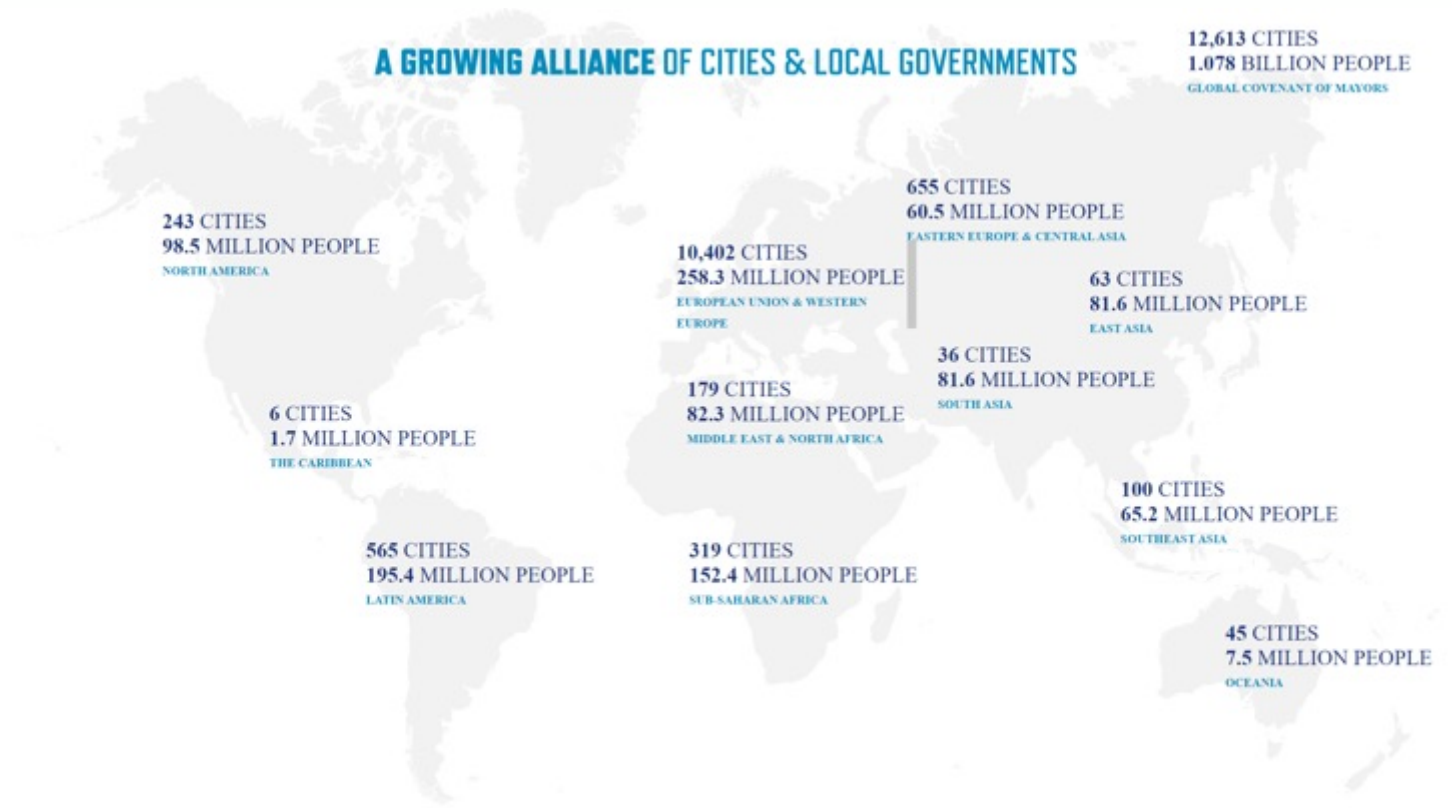
The path forward is clear





A GROWING ALLIANCE OF CITIES & LOCAL GOVERNMENTS

12,613 CITIES
1.078 BILLION PEOPLE
GLOBAL COVENANT OF MAYORS



GCOM: ONEWORLDALLIANCE

+12.500 cities, > 1 billion people, 13 Regional Covenants



Benefits of joining the GCoM

GCoM signatories join the world largest coalition of local leaders committed to address the climate change challenge. They can benefit from:



Access to good practices, guidance documents, methodologies and tools



Capacity building & technical support on planning & implementation of climate and sustainable energy action



Access to decentralized cooperation mechanisms. Peer-to-peer learning.



Improved international visibility of climate and energy actions carried out by cities in sub-Saharan Africa



Facilitated access to finance, leveraging investments





ENERGIZING CITY CLIMATE ACTION

download the 2022 GCoM REPORT here:

www.globalcovenantofmayors.org/impact2022/



12,500+ cities

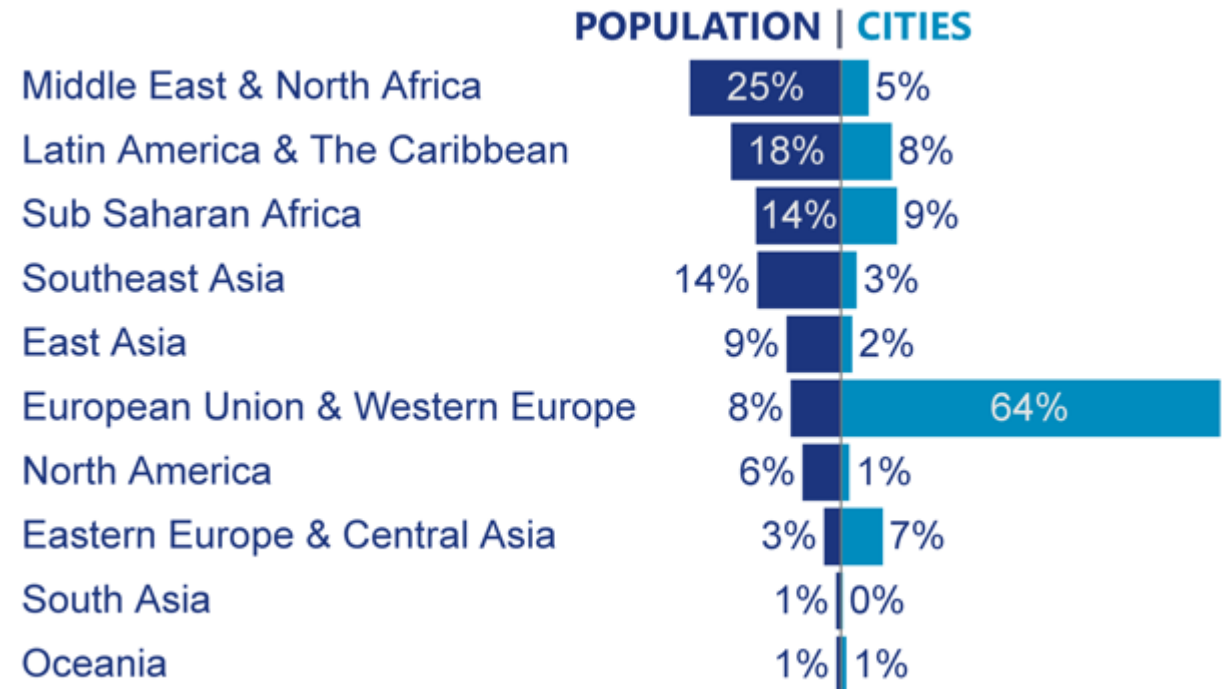
144 countries

900 new cities in 2022

Over 1 billion people – one person in every eight – lives in a city that is committed to GCoM

A GROWING ALLIANCE

The distribution of the GCoM growth since 2021 across regions



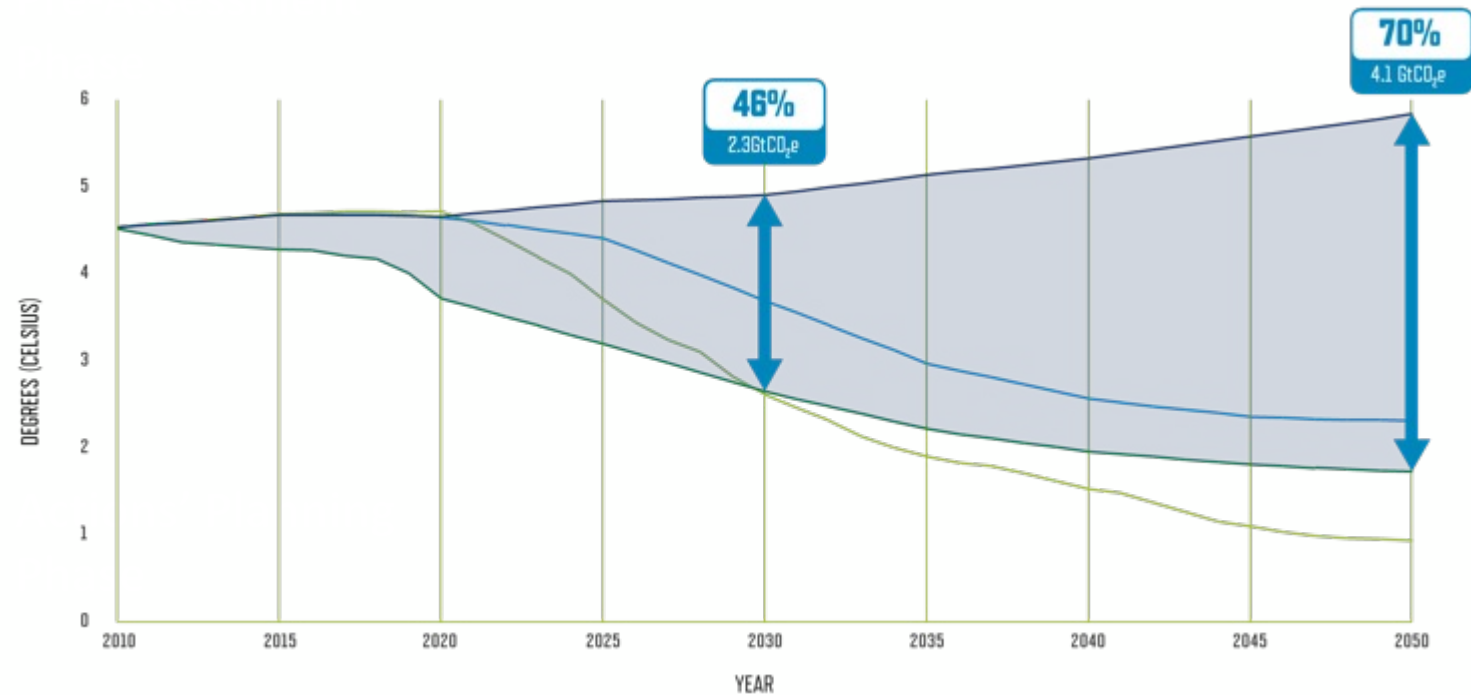
ENERGIZING CITY CLIMATE ACTION



Based on current targets and actions, the GCoM cities could collectively reduce global emissions by 2.3 GtCO₂e annually in 2030 compared to a business-as-usual (BAU) trajectory

A LOW CARBON FUTURE

GCoM signatory emissions scenarios, 2010-2050



- Baseline
- NDC
- GCoM Cities Enhanced Ambition
- MEDIAN 1.5deg

Multilevel Climate Action: Localizing the NDCs

Critical opportunity to address the climate crisis: stronger **vertical integration** across levels of government that integrates local and regional climate contributions into NDCs.

Local authorities are responsible for the planning, development and management of territories: they are able to better understand the diversity and the complexity of local ecosystems and the needs and priorities of local communities.

Local authorities are primarily responsible for the effective conduct of sustainable development programs, quality basic urban services aimed at improving the living conditions of their population, as well as the development of their territory to make them more attractive and competitive. They have the mandate for local development, without necessarily having the human and financial resources.





Multilevel Climate Action: Localizing the NDCs

GCoM supports cities in their contribution to the countries' NDCs implementation process, integrating the level of territorial communities and local development into the national strategies and investment plans through their own **Climate Action Plans**

NDC



CAPs



CAP development process overview

Signatory cities' commitments

Initiation

- Political commitment
- Mobilize all municipal departments involved
- Stakeholders engagement

Planning

Gain better understanding of local emissions, vulnerability to climate change impacts and access to energy services
Current policy framework

Climate Mitigation	Climate Adaptation	Access to Energy
Prepare a Baseline Greenhouse Gas (GHG) emissions inventory; The inventory determine baseline emissions, identifying main emission sources and reduction opportunities.	Prepare a Climate Change Risk and Vulnerability Assessment (RVA) : Cities conduct an RVA to identify current and future risks to people and assets.	Produce an Access to Energy Assessment (AEA) : as a dashboard, to overviewing the local status of electrification and cooking fuels access.
Establishment of the vision, where do we want to go? > TARGET Elaboration of the plan: how do we get there? > ACTIONS What to consider when designing actions to reach the targets?		
Climate Mitigation	Climate Adaptation	Access to Energy
Sectors: • Buildings/ Stationary Energy • Transport • Waste	Type of hazards: • Extreme heat/cold • Extreme precipitation / drought • Floods • Sea level rise	Sectors: • Electricity • Cooking fuels

Implementation

- Deliver practical actions

Monitoring and reporting

- Review progress and readjust priorities

Year 0
Political Commitment
Signature of PCD

Year 2
Baseline Emissions Inventory (BEI);
Risk and Vulnerability Assessment (RVA);
Access to Energy Assessment (AEA) targets and goals

Every 2 years after submission local plan



Year 3
Climate Action Plan Submission of the document



12.675
COMMITTED CITIES



Commit to the Global Covenant of Mayors for Climate and Energy.

Join the largest global alliance for city and climate leadership.

Pledge to implement policy and undertake measure to reduce greenhouse gas (GHG) emissions, prepare for climate impacts, increase sustainable energy access and track progress towards these objectives.

Three pillars each with one badge and 3 steps



737
COMPLIANT CITIES





GCoM support (EU financed) for CAPs development to:

Central Asia:

Kazakhstan, Kyrgyzstan, Uzbekistan

Middle East:

Oman

Sub Saharan Africa:

Ivory Coast

Pacific Islands:

Fiji, Samoa, Solomon Islands



The Ministry of Ecology and Natural Resources has selected 5 cities of Kazakhstan to receive technical support from GCoM for the development of Climate Action Plans :

Aktobe - Petropavlovsk - Taldykorgan - Temirtau - Satpaev



GCoM Technical support services to 5 cities in Kazakhstan

*Initiation
phase -
completed*

- Securing commitment & mobilisation of municipal departments
- 5 city coordinators appointed - Task force established in all cities
- Key stakeholders engaged

*Pre-assessment
phase –
in process*

- Data collection for Baseline Emission Inventory
- Data collection for Risk & Vulnerability analysis

*Target setting and
action planning -
planned*

- Establishing the vision
- Setting goals and targets
- Identifying and prioritising actions

*Technical support
for projects
preparation and
bankability*

- One project for Kazakhstan (preferably for all five cities)
- One-on-one technical support, pitching and match making with financing/donors organisations.
- Investment Project Concept template



GCoM cities climate actions need financing

100,000+ climate actions
requiring USD 690 billion
(EUR 593 billion)



11 million



Urban resilience

reported by GCoM signatories

new green jobs

significantly enhanced

Increased financing for climate action

- 3-6 times the current climate investment
- But there is enough global financing to rapidly reduce emissions
- Developing countries require external funding to meet adaptation needs
- Options are available to scale up financing

We launched **THE CITY CLIMATE FINANCE GAP FUND**



to unlock €4 billion
(equal to the GDP of Sierra Leone) (2019)
to transform ambitious city climate ideas into finance-ready projects



www.citygapfund.org



Place within the Project Development Cycle



- | | | | | | | |
|--|--|--|---|---|--|---|
| <ul style="list-style-type: none">• Designing enabling legislation• Designing regulatory approaches• Reforming project-relevant institutions• Capacity and consensus building | <ul style="list-style-type: none">• Developing climate action plans (CAPs)• Build on synergies with other initiatives already planned by City• Tap into local governments networks for best practices/peer-to-peer learning• Develop a preliminary CAP implementation plan by identifying and prioritizing a menu of “quick wins” climate action projects, medium term and longer term ones• Get CAP approved by City Council or equivalent body | <ul style="list-style-type: none">• Identifying desired outputs for project• Collect data & compare with alternative projects• Identify potential budgetary streams in municipal master plan/budget to help prioritize• Conducting prefeasibility studies | <ul style="list-style-type: none">• Performing financial modelling• Technical options analysis• Environmental impact assessment• Socio-economic appraisal• Other specialist studies | <ul style="list-style-type: none">• Assessing project finance options (public, private, PPP etc.)• Designing legal entities• Developing technical/engineering designs | <ul style="list-style-type: none">• Finalising project finance and legal structure• Designing and conducting bid process and drafting contracts• Finalising technical design | <ul style="list-style-type: none">• Monitoring of outcomes• Impact evaluation• Renegotiating or refinancing project |
|--|--|--|---|---|--|---|



Critical step to fill in the funding gap cities are facing and attract financing



Enhance bankability to facilitate match making with financial institutions, donors and investors





GCoM provides financial/technical inputs on maturing 10-15 cities' priority projects from their CAPs, through the GCoM Bankable Cities support programme.

General Objective

Accelerate access to climate finance by identifying the size of the funding needs, bankability potential and the associated climate finance metrics to support match-making through existing pipelines.

Key objective

Enhance bankability to facilitate match making with possible funders

Service Scope

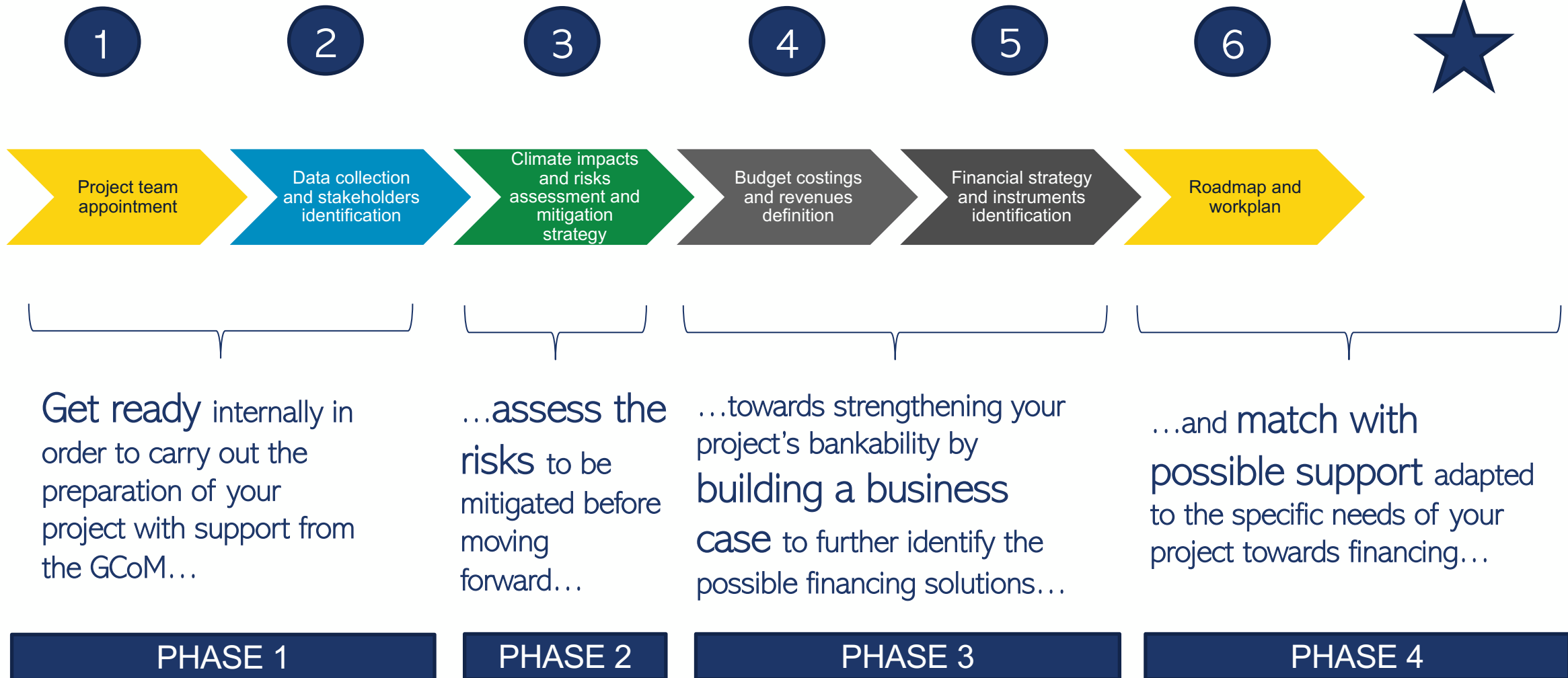
Tailor made to the city needs & in support of projects at pre-feasibility stages.

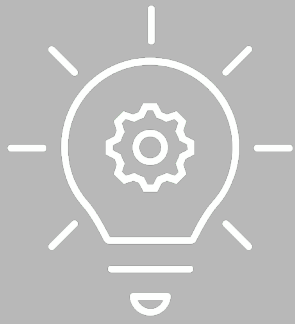
**Infrastructure projects
with climate impacts/scopes**

**Projects or interventions with investment potential
leading to tangible climate results**



Steps to prepare a bankable climate project





How can we help your CAP implementation?



What support can we bring?

- ✓ One-on-one technical support through a dedicated multi-disciplinary team of experts tailored to the needs of the project;
- ✓ Site visits during the course of the project preparation process;
- ✓ Guidance on international best practices and methodologies;
- ✓ Access to a network of partners and possible funders;
- ✓ Visibility in the GCoM's network.



Which tools can we provide?

- ✓ *Templates documents:* Terms of Reference, project proposal, pitching presentation
- ✓ *Checklists:* data collection, risks assessments, costings
- ✓ *Methodologies:* financial planning, workplan, stakeholders mapping
- ✓ *Online trainings* on specific topics.
- ✓ *Pitching and match making session* or event



Ambitious climate action can transform cities



Improved
air quality



Greater citizen
well-being



Reduced traffic
congestion



More attractive
for investment



Ensuring key
services to all



Energy poverty
alleviation

Next steps in Kazakhstan (5 cities)

*June - July
2023*

Completion
of
preliminary
analysis BEI,
RVA and EA

*Autumn
2023*

Identification and
prioritization of
CAP actions
Initiation of
project
preparation
activities

*Spring -
summer
2024*

Completion
of CAPs and
projects'
preparation
activities

*September
2024*

CAPs fine
tuning with
last comments
by cities



Co-funded by the
European Union



GLOBAL COVENANT
of MAYORS for
CLIMATE & ENERGY

More information:



www.globalcovenantofmayors.org



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