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Role of cities in achieving air and climate co-benefits

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ICLEI World Secretariat

ICLEI - Local Governments for Sustainability



- **Global network of 1,500 cities, towns and regions in 108 countries**
- Committed to **building a sustainable future** - www.iclei.org
- **Established in 1990** in New York by cities
- **Thematic network:** expertise on low carbon, resilience, ecomobility, resource-efficiency, biodiversity, health, green economy, smart infrastructure, smart city, sustainable procurement
- Our clients: **local and subnational governments**
- We provide **policy and technical guidance, tools, peer-learning and exchange**
- Through our work we **impact over 25% of the global urban population.**



Focus on local action

Political / Policy

*processes
and systems*

Technical



ICLEI provides:

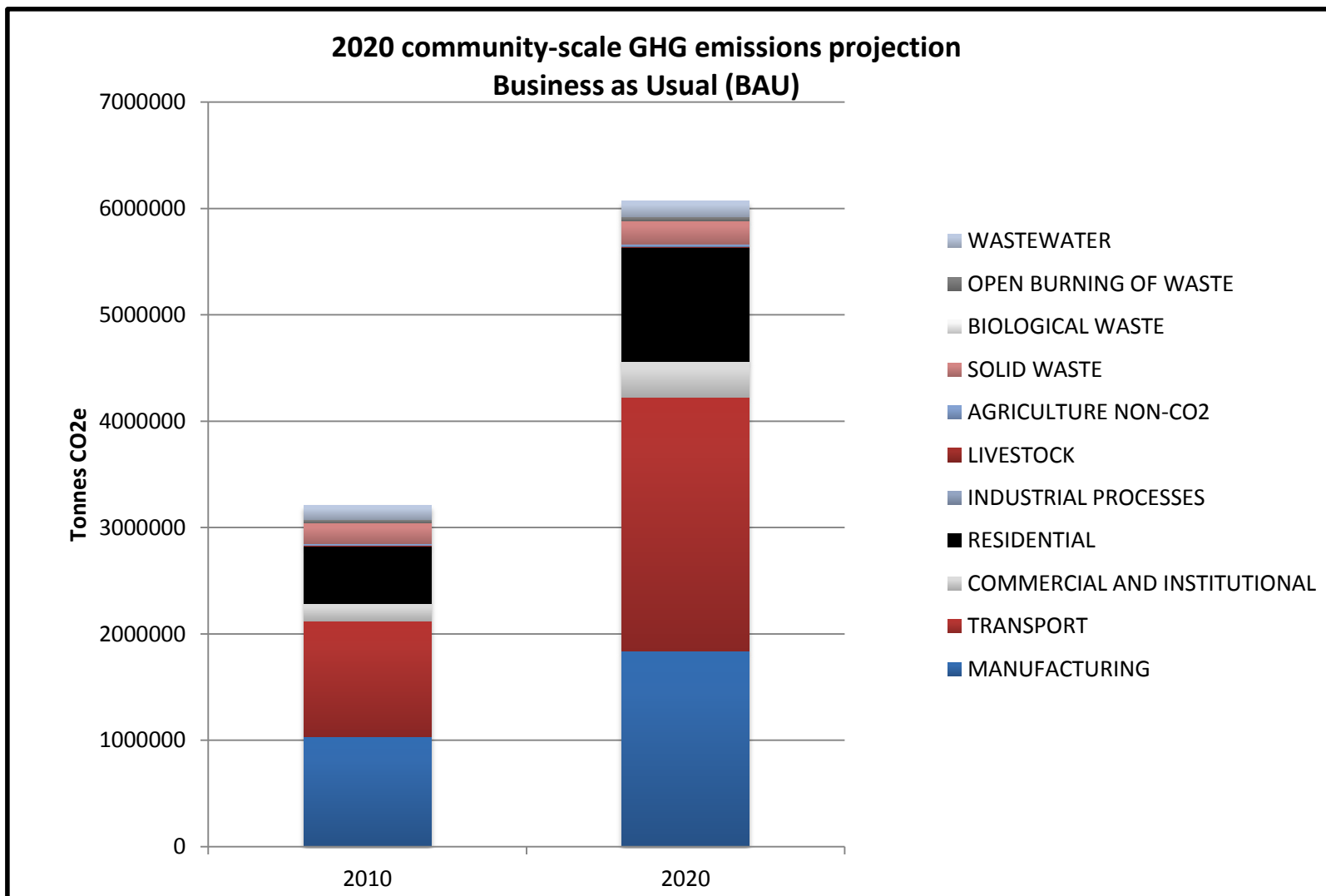
- Technical assistance
- Platforms
- Advocacy



Tackling GHGs and SLCPs

- Term “**Short-Lived Climate Pollutant (SLCP)**” not commonly used by local governments.
- Generic terms used e.g. **air pollution, pollutants, emissions**
- **Main urban sources of SLCPs are:**
 - Fossil fuel powered **industries**, incl. energy plants
 - Heating **commercial and residential** buildings
 - Fossil fuel powered **transportation**
 - Open biomass burning (**waste**, cooking, etc.)
- **Sources vary from city to city** – explore sectoral perspective
- Addressing GHG and SLCP mitigation in the community is **highly relevant to climate action planning**
- Recommended to follow an **integrated approach, plan, action and monitoring** (cost efficient)

Emissions tracking and forecast



Rajkot (India): Zero Waste Society

- **2015 TAP project submitted:** Climate change mitigation/ air quality action in waste sector
- **Rajkot Municipal Corporation (owner)** in partnership with local societies and private players (operation & maintenance of system to be dealt with by selected actors).
- **Community participation is key to sustainability.** Rajkot launched the SMART Housing society scheme to realize low-carbon, zero-waste communities, through **decentralized and integrated solutions for both solid and liquid waste.**
- 115 societies will be selected from 23 wards. **Potential to scale** to all societies (total 1000-1200 in city of Rajkot).
- **Pre-feasibility study completed.**
- Rajkot is **looking for funding options.**

TAP

Transformative
Actions
Program



Ulaanbaatar: Cooking and heating

- Mongolia capital city (pop. 1,314,500)
- **Challenge: air pollution caused by coal burning heating and cooking during winter.**
- Ulaanbaatar reported as one of world's worst polluted cities:
 - Nearly 60% of capital city residents live in ger areas (traditional tents) **without access to public services.**
 - **Energy inefficient buildings:** 40 % of city residents live in apartments of which 20% live in Soviet style pre-cast concrete panel buildings from the 1970s-early 1990s
 - Temperature range: -49° C +39° Celcius
- Part of **East Asian Clean Air Cities** to explore policy and technical options.

Freiburg (Germany): retrofitting buses

Freiburger Verkehr AG / Freiburg Transport Utility

- Buses retrofitted to meet stricter emissions standards. Entire fleet now meets a minimum Euro 5 standard (light passenger & commercial vehicles).
- Buses operated using sulphur-free diesel fuel since 1997.
- Every bus is equipped with most modern filter systems.
- Reduced carbon monoxide (CO) and non-methane hydrocarbons (NMHC) emissions by 92.5%, NO_x (nitrogen oxides produced during combustion) 81.5% and PM (particulates) by 78%.



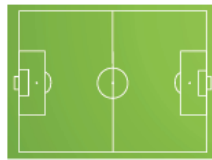
EcoMobility World Festivals

2013 Suwon




4,343
Involved residents

in an
area


> 63
Football fields


1 million +
Visits attracted


40
International
businesses


9 million
Euro invested

over
1,500
Vehicles removed

from


50
Countries

and



Mexico City (Mexico)

EcoBici
Bikesharing
Scheme



**1,917 tons
of CO₂
reduced in
5 yrs**



EcoMobility

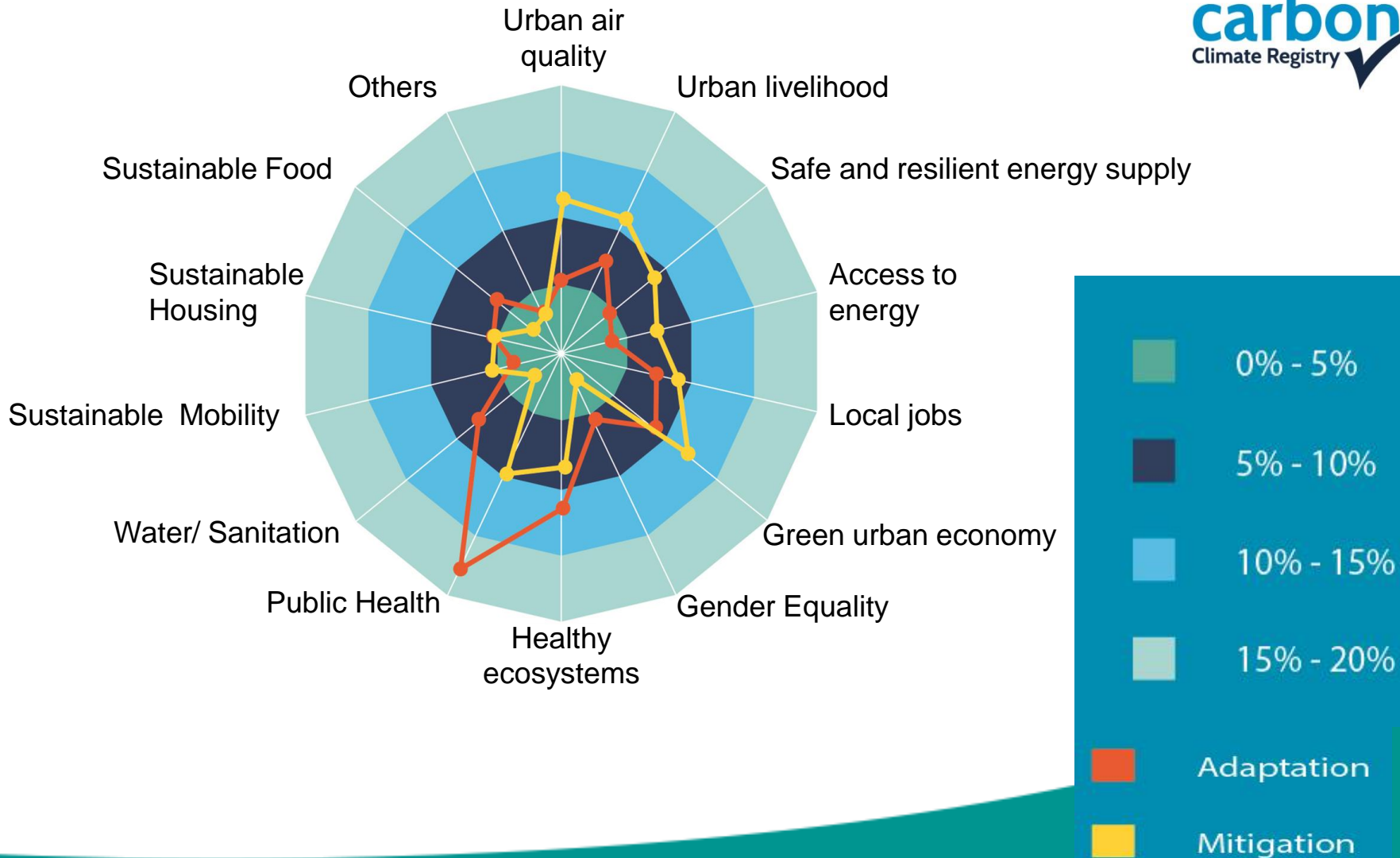
**Share of
women
riding
bikes has
increased
122%**

carbonn Climate Registry



- **Global voluntary reporting platform for cities, towns and regions on local climate action**
 - towards Measuring, Reporting, Verifiable (MRV)
 - supports “Vertical Integration”, “Horizontal Aggregation”
 - serves 15 initiatives and 1st data partner of UNFCCC’s NAZCA: <http://climateaction.unfccc.int>
- **Tracking co-benefits of local climate action**
- **Encouraging local and subnational governments to regularly and publicly report** - commitments, performance, actions
- **Showcase leadership, share information and good practice**
- **Benchmarking and services**

Co-benefits of local climate action



Support package for cities

- **GreenClimateCities (GCC) program**
- process guidance
- Standardized accounting: **Global Protocol for Community-scale GHG Emission Inventories (GPC)**
- GHG inventory tools: **HEAT+ and ClearPath**
- Voluntary reporting, MRV (Measuring, Reporting and Verification) and advocacy:
carbonn[®] Climate Registry
- **Transformative Actions Program (TAP):**
Project pipeline, quality assurance of projects,
support access to finance



Instruments to plan, regulate and act

- **Strategy:** outline vision and direction for local government operations and whole community
- **Operate:** own / manage infrastructure, offer services
- **Legal:** laws, by-laws, permissions, regulations
- **Planning:** urban / spatial planning, frameworks
- **Financial:** taxes, levies, subsidies
- **Market:** procurement, stimulate innovation
- **Persuasive:** offer information, raise awareness
- **Leadership:** act as a role model
- **Coordinate:** stimulate green economy, engage stakeholders

● Tools for your use

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World Health
Organization



CLIMATE &
CLEAN AIR
COALITION
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS

Summary

1. Local and subnational governments are increasingly keen to reduce emissions and tackle air pollution:
 - wide range of benefits are becoming clearer
 - non-action implies lack of leadership
2. NDCs will only be achievable if they are involved
3. Effective coordination and communication needed
4. Together raise the level of ambition in tackling climate change
5. Enabling national frameworks and active support of local climate action needed urgently – including access to finance
6. Win-win to increase the capacities of cities to provide access to sufficient, sustainable and safe energy-related services to urban and peri-urban populations with special attention to energy efficiency and renewable energy.

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The logo for CityTalk, featuring three stylized buildings in teal, yellow, and blue, with speech bubbles at their bases.
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