

ANNUAL REPORT

ICLEI SOUTH ASIA

APRIL 2018 – MARCH 2019

TOOLKITS

We support local governments with customised and specific methodologies and tools for resource management, climate adaptation and mitigation, biodiversity conservation and allied fields.



The **PROMISE toolkit** helps cities to prioritize and evaluate their urban development projects. It can be used by local authorities to manage and monitor their resources for better urban service delivery.

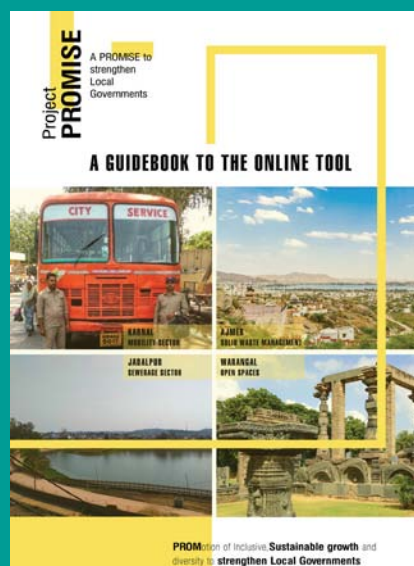


The **IAdapt Framework**, developed by using tools and methods from various toolkits, can be used to develop the catchment management plans for the selected micro-catchment areas.

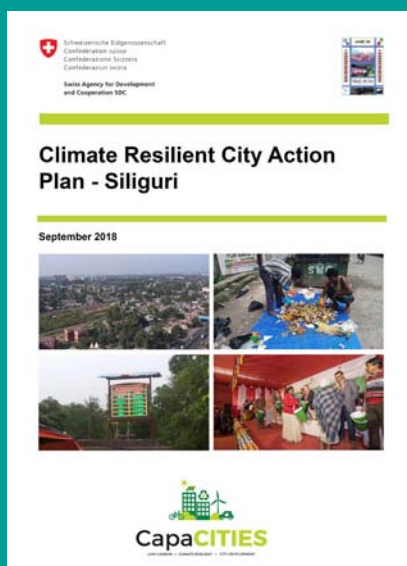


The **Climate Resilient City Action Plan (CRCAP)** methodology is tailor-made for local governments and provides step-by-step guidance for the development of a climate resilient city action plan.

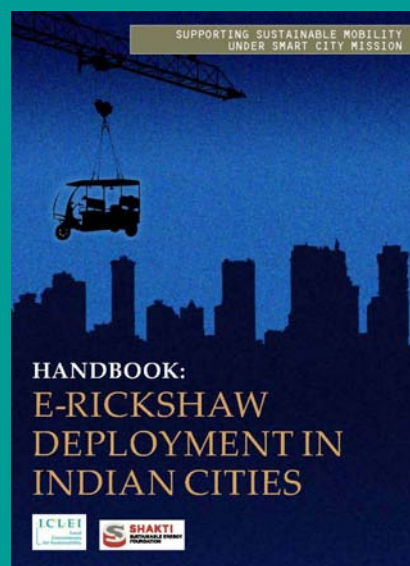
PUBLICATIONS



Guidebook to the Online PROMISE Tool



Climate Resilient City Action Plan – Siliguri
CRCAPs for Coimbatore, Rajkot and Udaipur have also been published



Handbook – E-Rickshaw Deployment in Indian Cities



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WHO WE ARE

ICLEI – Local Governments for Sustainability is a global network of more than 1,750 local and regional governments committed to sustainable urban development. Active in 100+ countries, we influence sustainability policy and drive local action for low emission, nature-based, equitable, resilient and circular development. Our members and team of experts work together through peer exchange, partnerships and capacity building to create systemic change for urban sustainability.

At **ICLEI – Local Governments for Sustainability, South Asia (ICLEI South Asia)** – the South Asian arm of ICLEI, we are a group of more than 55 professionals, including urban planners, energy managers, environmental planners and transportation engineers, and ecologists and environmental engineers. We work together to support South Asian cities on multiple aspects of sustainable development. We aim to build and serve a regional network of local governments to achieve tangible improvements in regional and global sustainability through local initiatives.



Kinlay Dorjee

**MAYOR, THIMPHU MUNICIPALITY, BHUTAN,
CHAIRPERSON, REGIONAL EXECUTIVE
COMMITTEE, ICLEI SOUTH ASIA AND
MEMBER, GLOBAL EXECUTIVE COMMITTEE
ICLEI – Local Governments for Sustainability**

The expanding network of ICLEI South Asia is testimony to the growing appreciation for its efforts to promote low-carbon, green and climate-resilient urban infrastructure. It has kept the conversation going on critical development and environment issues, against all odds.

As a member of its Regional Executive Committee, I have had the opportunity to appreciate and closely follow ICLEI South Asia's work in which resilience, sustainability, inclusiveness and a pro-poor approach are all integrated. This association has also helped me to improve governance in Thimphu, the capital city of Bhutan, by adopting best practices from across the world. These practices complement our approach in Bhutan, which considers factors like health and mental well-being as key elements for building happy cities.

*Several other cities in South Asia are also reworking their inefficient, and sometimes damaging, policies and practices, thanks to ICLEI's push to create systemic change. **I hope that more will follow their example in the region.***



Hansa Patel

**CHAIRPERSON
ICLEI South Asia**

Looking back at the past year, I am amazed at ICLEI South Asia's achievements. We have impacted policy matters, programme strategies, people's lifestyles and community practices. We have motivated cities to adopt Climate Resilient City Action Plans, implement waste segregation, reduce plastic waste and address issues of landscape degradation, biodiversity conservation, water management and transport modernisation, among others.

All these have been made possible because of the strong network of partnerships and connections with donors and stakeholders that we are continually fostering. These relationships enhance our ability to put our resources to the highest and best possible use—to have one plus one always add up to more than two.

I am proud of my long association with ICLEI South Asia and wish it great success in achieving many more milestones.



Gino Van Begin

SECRETARY GENERAL

ICLEI - Local Governments for Sustainability

The ICLEI network exists for times like these. Times defined by crisis and great need. We are witnessing unprecedented environmental events that are likely to have dramatic impacts. They underscore the need for collective and corrective action by every person who cares about the state of the planet.

To tackle these challenges, achieve the Sustainable Development Goals and to meet the objectives of the Paris Agreement on Climate Change, the ICLEI Council adopted the ICLEI Montreal Commitment and Strategic Vision on the 30th of May 2018. It lays out how the ICLEI network will advance sustainable urban development locally and globally from 2018 through 2024.

I am proud to note that ICLEI South Asia has been pursuing strategic work that is preparing communities for this new world that is burdened with more demands and far fewer resources. I invite more cities in South Asia to join the network and become part of a stakeholder-driven model of sustainable development that is the way forward.



Emani Kumar

DEPUTY SECRETARY GENERAL, ICLEI AND EXECUTIVE DIRECTOR

ICLEI South Asia

ICLEI South Asia made remarkable gains towards building sustainable communities in the past year. We engaged and worked alongside cities, other sub-national governments and national governments to promote climate-resilient urban development, including urban freight mobility and child-friendly urban infrastructure; facilitated climate knowledge brokering and access to climate finance; launched people's biodiversity registers and analysed the value chain of bio-resources; initiated landscape-level degradation mapping; empowered communities through gender and social inclusion and enabled governance mechanisms that allow for rural and urban stakeholders to jointly manage their water resources, specifically addressing the need for blurring jurisdictions, especially where natural resource management is concerned.

Our experience of city climate action substantially contributed to the formulation of the Climate-Smart City Assessment Framework, launched by the Ministry of Housing and Urban Affairs, Government of India. We consider it a personal achievement that our work with our members has contributed to a country-wide shift to address climate-resilient urban development in right earnest.

We jointly organised the Cities and Regions Talanoa Dialogues in India and Bangladesh, which convened all relevant stakeholders to discuss climate action in the national and regional context, with an aim to enhance climate action ambitions. Experiences from India are successfully translated to other contexts and implemented in Nepal, Bangladesh, Sri Lanka and Malaysia. We also supported the Indonesia-Malaysia-Thailand sub-region in defining its first Sustainable Urban Development Framework. Sixteen countries in the Asia Pacific are engaged in peer learning to adopt and accelerate low emissions oriented action.

Against this backdrop, I am proud to share our annual report, which showcases the work we have done and its impact in South Asia and beyond.

THE ICLEI SOUTH ASIAN REXCOM 2018-2021

One of the governance bodies for ICLEI, the South Asian RexCom, or Regional Executive Committee, is the regional representation of ICLEI members in South Asia. It consists of five members and one advisor elected for the 2018-2021 period.

JOIN US!

Local governments,
and associations of
local governments

Please visit our website:
[http://southasia.iclei.org/
our-members/join-us.html](http://southasia.iclei.org/our-members/join-us.html)
or write to us at
membership@iclei.org



Mr. Kinlay Dorjee
URBAN REFORMS
Mayor, Thimphu
Municipality, Bhutan



Mrs. Nanda Jichkar
RESOURCE EFFICIENCY
Mayor, Nagpur Municipal
Corporation, India



**Mr. Shaikh Mahtab
Ali Methu**
LOW EMISSION STRATEGIES
Mayor, Faridpur Municipality,
Bangladesh



**Mr. Mohamed Shafeeg
Mahmood**
CLIMATE RESILIENT CITIES
CEO, Local Government
Authority, Male, Maldives



Mr. Ashok Byanju
BIODIVERSITY
Vice President, Municipal
Association of Nepal



Mr. Asok Bhattacharya
SPECIAL ADVISOR
Mayor, Siliguri Municipal
Corporation, India

OUR MISSION

To build and serve a worldwide movement of local governments to achieve tangible improvements in global sustainability with special focus on environmental conditions through cumulative local actions.



ICLEI South Asia is now a network of more than 100 local and regional governments. We encourage more cities to join our network.

OUR VISION

ICLEI envisions a world of sustainable cities that confront the realities of urbanisation, adapt to economic and demographic trends and prepare for the impacts of climate change and other urban challenges. This is why ICLEI unites local and regional governments in creating positive change through collective learning, exchange and capacity building.



OUR PATHWAYS

To sustainably manage our rapidly changing urban and global environment and to transform our cities and regions that surround them, we drive action through five critical and strategic pathways that are closely interlinked.



LOW EMISSION DEVELOPMENT

Help curb climate change, reduce pollutants and greenhouse gas emissions in all activities, achieve climate neutrality and promote renewable energy and people-centred solutions such as walking and cycling for sustainable passenger mobility.



NATURE-BASED DEVELOPMENT

Protect and enhance the biodiversity and ecosystems in and around cities, which underpin key aspects of our local economies and upon which we depend for the well-being and resilience of our communities.



CIRCULAR DEVELOPMENT

Promote models of production and consumption to build sustainable societies that use recyclable, shareable and regenerative resources to meet the material / development needs of a growing population.



RESILIENT DEVELOPMENT

Support cities to anticipate, prevent, absorb and recover from shocks and stresses, in particular those caused by rapid environmental, technological and social change, and to improve basic response structures.



EQUITABLE AND PEOPLE-CENTRED DEVELOPMENT

Help to build more just, liveable and inclusive urban communities and address poverty and pursue processes and patterns of an “inclusive development for all” that safeguard the natural support systems for human life.



LOW EMISSION DEVELOPMENT PATHWAY

Through this pathway, we help local and regional governments reduce environmentally harmful pollutants and GHG emissions in all activities, especially in transport, waste management and buildings. We aim for carbon-neutral infrastructure and operations, and for cities to commit to 100 percent renewable energy. We support cities to promote sustainable passenger and freight mobility, prioritise clean fuel policies and electric vehicles from renewable energy, and give priority to people-centred mobility solutions.

Path-breaking low-emission strategies adopted by cities, with support from us, are taking climate action to the next level, and also urging other sub-national and national governments to take immediate measures. In the past year, we initiated urban climate action in 16 cities, spanning India and Bangladesh, Bhutan and Sri Lanka. We contributed to the publication of 36 state-level greenhouse gas (GHG) emission trend briefs in India, and provided technical assistance to define Madhya Pradesh State's Climate Action Plan. We played a defining role in the uptake of District Cooling Systems in the city of Thane, the first time in India that a City Authority is attempting to champion a District Cooling System in the country, besides launching low-carbon freight projects in three cities and successfully completing the second phase of our Smart Cities Project.

In the **CapaCITIES project**, four cities in India championed a unique climate planning tool developed by us, addressing both mitigation and adaptation simultaneously, while piloting projects aimed at enhancing the cities' climate resilience. Four other cities in the Urban LEDS II project are already replicating this process. Several

municipal authorities have channelled municipal funds and other finance sources to implement and scale-up climate action identified and defined in the action plans. Building energy efficiency and renewable energy initiatives are also supported in four cities: Coimbatore, Nagpur, Rajkot and Pune.

Through the **Asia LEDS Partnership (ALP)**, we are engaging with more than 16 national governments from the Asia-Pacific in four communities of practice, which address renewable energy, clean mobility, multi-level governance and Nationally Determined Contribution (NDC) finance; six other countries engage with the ALP periodically.

The **Urban Low Emission Development Strategies II (Urban LEDS-II) -Accelerating climate action through the promotion of Urban Low Emission Development Strategies project** aims to reduce GHG emissions and enable climate-resilient development in cities. Partnerships with two model cities in India (Thane and Nagpur); and two model cities (Narayanganj and Rajshahi) and four satellite cities (Singra, Sirajganj, Faridpur, and Mongla) in Bangladesh, have been established. A first-of-its-kind documented analysis and review for national-level mapping, focusing on identification of programmes and policies, which would allow multilevel governance, is underway for India and Bangladesh.

As lead for the waste sector of the **GHG Platform India Initiative (GHGPI)**, we contributed to the publication of 36 state-wise GHG trend briefs that can be used to understand which emission sources should be targeted through climate actions.

GHGPI's efforts to generate an extensive resource-base and analysis on emissions was noted in India's national climate report, published in end-2018, and submitted to the United Nations Framework Convention on Climate Change (UNFCCC) by the Ministry of Environment, Forest and Climate Change (MoEFCC).

At the state level, we provided technical support to the Madhya Pradesh government for revision of the **State Action Plan on Climate Change** to help align their mitigation efforts with the NDC goals. We also assessed the climate mitigation impacts of Gujarat's policies and programmes in the waste sector.

The **EcoLogistics-Low Carbon Freight for Sustainable Cities project** is a first-of-its-kind global initiative that prioritises strategies to reduce the impact of transportation of goods on air quality, noise and health, besides reducing fatalities and injuries, traffic congestion and GHG emissions. We are implementing the project in Kochi, Shimla and Panaji and will develop a **self-monitoring tool** to assess baselines of GHG emissions, which will then be used to develop Low Carbon Action Plans for Urban Freight.



Mobility and transport are also the focus of our **Cities SHIFT project** in Visakhapatnam and Ludhiana, promoting more sustainable modes of travel such as walking and cycling. To this end, the viability of our EcoMobility SHIFT tool – which allows cities to assess their mobility performance – is being tested in different conditions.

We provided technical support to the city of Delhi in strengthening the public transport system, with special focus on low-carbon buses and electric vehicles, as part of the government's efforts to reduce air pollution.

As regional head of the **SE4ALL Building Efficiency Accelerator (BEA) project**, we are enabling city governments to assess and implement appropriate policies and programmes to meet the targets set forth by national and state policies on energy efficiency in buildings. We are assisting Nagpur, which joined the BEA initiative last year, to improve building energy efficiency.

The innovative **District Energy Systems in Cities Initiative – India** aims to assist cities to speed up adoption of low-carbon district energy systems. We completed prefeasibility studies for two potential cooling projects in Thane. This followed the release of results of five-city rapid assessments of district cooling (Bhopal, Coimbatore, Pune, Rajkot and Thane), carried out in 2017 – a first for India. Following this, Rajkot had become the first city to incorporate district cooling into its Smart City Plan.

We provided technical support to Global Infrastructure Basel in the **Supporting Sustainable, Resilient and Climate Sensitive Infrastructure Development in India** project. We developed a checklist tool “Preparation of Sustainable and Resilient Infrastructure Projects” that enables cities to consider sustainability and resilience issues in project proposals, improve project design and to attract more finance. City representatives from Jaipur, Ujjain and Gwalior were trained in the use of this tool.

The **ALP Secretariat**, hosted by us, enables peer-to-peer learning and application across the region, besides promoting capacity building, collaboration and partnerships. The ALP, which had already initiated three regional communities of practices (CoP) – Grid Renewable Energy CoP, Clean mobility CoP and NDC finance – also launched the Multi-level Climate Governance CoP to provide expertise and inputs on Low Emission Development Strategies. The CoPs are networks of experts who come together to engage in peer-to-peer learning.

The ALP was involved in capturing the impacts and results achieved by the UNDP's Low Emission Capacity Building Programme in Bhutan, China, Indonesia and Lebanon, besides Malaysia, Philippines, Thailand and Vietnam. In addition, ALP also synthesised the impact of UNDP's support to prepare and plan the intended NDCs in 10 countries: Bhutan, Ghana, Indonesia, Lebanon, Morocco, Philippines, Vanuatu, Solomon Islands and Samoa.

FUNDERS

- **Urban LEDS-II** : European Commission
- **Asia LEDS Partnership:**
National Renewable Energy Laboratory (NREL), USA;
Swiss Agency for Development & Cooperation (SDC), India;
Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) (Support Programme for the Implementation of Paris Agreement), Germany;
United Nations Development Programme (UNDP)
- **CapaCITIES:** Swiss Agency for Development & Cooperation (SDC), Switzerland
- **EcoLogistics** : German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU), under their International Climate Initiative (IKI)
- **Cities SHIFT:** Hewlett Foundation, USA; Ecomobility Alliance, Germany
- **BEA:** WRI Ross Center for Sustainable Cities, USA
- **District Energy Systems in Cities Initiative:** United Nations Environment Programme (UNEP), France
- **Supporting Sustainable, Resilient and Climate Sensitive Infrastructure Development in India:** SDC through **Global Infrastructure Basel (GIB)**

BUILDING SMART CITIES

The Indian government launched the Smart Cities Mission to improve the quality of life of the people by using technology to create smart outcomes for citizens. To complement that objective, we initiated the second phase (2017-19) of the Supporting Sustainable Urban Transport and Built Environment project in four Smart Cities: Udaipur, Ludhiana, Gwalior and Visakhapatnam.

It is our key achievement that our handholding support helped the stakeholders understand how implementation of 'smart' measures would help to reduce emissions and congestion, promote walkability, achieve sustainable transport targets and promote green and efficient buildings.

In addition, we helped the cities to develop action plans based on the government's Smart Cities Mission objectives. We developed draft policies and action plans for parking, intermediate public transport and non-motorised transport, besides helping with policy formulation, demonstration

of pilot initiatives and in promoting intermediate public transport. Among the project outcomes were an ECBC Compliance Handbook; a handbook on E-Rickshaw Deployment in Indian Cities; Learnings Report: Smart Cities Engagement (Supporting Sustainable Mobility under Smart City Mission) and City Reports on Udaipur, Visakhapatnam, Ludhiana and Gwalior.

FUNDER

Shakti Sustainable Energy Foundation (SSEF), India

MAINSTREAMING CLIMATE CHANGE INTO CITY PLANS

The objective of our **CapaCITIES** project (2016-19 – Phase I) had been to lower the GHG emissions growth path and increase resilience to climate change in four Indian cities: Rajkot, Coimbatore, Siliguri and Udaipur. In the past year, we have prepared Climate Resilience City Action Plans (CRCAPs) for the four cities, which were ratified by all of them.

The **Climate Resilient Cities methodology** based on ICLEI's previous climate action planning tools - the ICLEI ACCCRN Process and Green Climate Cities approach, and the Swiss Energiestadt Label and the European Energy Award (EEA) system - was developed. This methodology is being disseminated by the Ministry of Housing and Urban Affairs as an advisory to other Smart Cities in India, to support the development of Climate Smart Cities.

In its final operational year, our project achieved significant success in mainstreaming climate change into the development planning context of the four project cities. Now, the municipal budgets in all four cities include actions identified in the CRCAPs. Funds of AMRUT and Swachh Bharat Mission are being leveraged to implement the climate action plans.

Pilot projects were designed and implemented in all four cities. A 1.5 TPD biomethanation facility in Coimbatore, a 2 TPD biomethanation facility in Udaipur and a 1 TPD Organic Waste Converter in Siliguri are now operational. Plans are underway in both Coimbatore and Udaipur to install larger plants based on the biomethanation technology, post this experience.

The installation of a 145kWp grid connected Solar PV system, co-funded by RMC, results in the generation of 580 units of electricity per day (211,700 units electricity per year), which is equivalent to approximately 20% of the total power consumption in the plant.

The city has apportioned municipal budget to scale up the deployment of solar PV in other utilities post this pilot initiative. A 30kWp solar PV facility to cater to the common amenities in the Krantiveer Khudiram Bose Township, creates an annual saving of 45,000 units of electricity – the use of solar PV for common amenities is now being replicated in other social housing projects in Rajkot. In previous years, sensor-based air quality monitoring systems were established in all four cities and an acoustic water leak detection system was provided to Siliguri Municipal Corporation.

FUNDER

Swiss Agency for Development and Cooperation (SDC), India



NATURE-BASED DEVELOPMENT PATHWAY

Under our Nature-Based Development pathway, we implement projects in which ecosystems and the services provided by them that sustain life and health are protected and nurtured. We work with local governments and help to conserve and restore ecosystems essential to achieving the overall goals of the national and international acts and conventions like the National Biodiversity Act and Convention on Biodiversity (CBD).

We are assisting four local governments and three states in the assessment, conservation and sustainable use of their biodiversity resources and to mainstream biodiversity conservation in their development plans. We supported the preparation of policy briefs, in addition to developing Local Biodiversity Strategy and Action Plans (LBSAP) for Kochi and Gangtok. Our extensive efforts to build capacity and generate awareness in the INTERACT-Bio project played a significant role in Kochi's decision to allocate funds for biodiversity conservation in the municipal budget.

Our four-year **INTERACT-Bio project** in Kochi, Mangaluru and Panaji aims to strengthen the integration of biodiversity management at all levels of governance and facilitate similar cooperation on urban ecosystem management. Under the project, we have developed Natural Asset Maps for Kochi, Panaji and Mangaluru, along with a pictorial handbook of trees in Subhash Bose Park, Kochi. We are undertaking

extensive consultations with a wide array of stakeholders in Kochi in order to develop the LBSAP.

We are developing an LBSAP for Gangtok under the **Biodiversity Conservation and Natural Resource Management for Sustainable Development in Gangtok Project**. The city's Natural Asset Map has been prepared and consultations are underway with stakeholders.

We have been appointed as a Technical Support Group to the Goa State Biodiversity Board. We are developing People's Biodiversity Registers (PBRs) in Goa under the "**Developing People's Biodiversity Registers for 20 Villages in Goa**" project. We are documenting the local biological resources, as well as traditional knowledge about nature and natural resources. The PBRs of three villages have so far been validated. In another project in Goa, we conducted **Value Chain Analysis** for nine bioresources to help support access and benefit-sharing negotiations. The results have been published in a book developed by the State Biodiversity Board, with ICLEI South Asia as co-author.

The **Ecosystems Services for Poverty Alleviation (ESPA)** programme has supported over 100 projects on ecosystem

services and their role in poverty alleviation. In the final year of the programme, we supported sharing of ESPA insights through a national workshop in Delhi. We also contributed to the **development of a policy brief** on the same.

An ongoing project is the **preparation of the nomination dossier of River Island of Majuli on Brahmaputra River in Assam as a World Heritage Site**. We are helping in documentation of the natural heritage component for the dossier. The first draft of the dossier has been prepared and submitted to the state government, prior to an inspection visit by the International Council on Monuments and Sites and The International Union for Conservation of Nature.

FUNDERS

- **INTERACT-Bio:** The Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) under their International Climate Initiative (IKI), Germany
- **Biodiversity Conservation and Natural Resource Management in Gangtok:** Gangtok Municipal Corporation (GMC), India
- **People's Biodiversity Registers and Value Chain of Bioresources:** Goa State Biodiversity Board (GSBB), India
- **Policy brief for ESPA:** Ecosystem Services for Poverty Alleviation Secretariat (ESPA), United Kingdom
- **Nomination dossier of Majuli River Island:** Directorate of Cultural Affairs, Government of Assam, India

FUNDER

United Nations Development Programme (UNDP), India

RISK MITIGATION PLAN FOR MOUNTAINS

We have undertaken a study to define the extent and intensity of habitat degradation, and to prepare a model mitigation plan in the Lahaul and Pangi landscapes of Himachal Pradesh under the **SECURE Himalaya project**. This involves extensive biodiversity surveys and mapping to identify the drivers of degradation at the landscape level.

We have conducted focus group discussions, household surveys, discussions with the Gaddi nomadic pastoralists and resource mapping in the landscape. Based on the information thus collected, we aim to develop a restoration plan for two degraded sites.





HIGHLIGHTS IN NUMBERS



13% of South Asia's urban population, in more than 50 cities including Delhi, Kathmandu, Dhaka, Thimphu and Colombo were impacted by our projects



18 cities were supported in formulating low-emission climate-resilient action plans



>800 people, including officials from Urban Local Bodies, were reached out to through our webinars and workshops on climate mitigation, solid waste management, biodiversity conservation, water management, nature based solutions and urban mobility, among other issues



30 local bodies were supported on biodiversity conservation activities and nature-based solutions



02 Talanoa dialogues organised in India and Bangladesh



06 countries and **11** cities – Where we are working on sustainable mobility, including sustainable urban freight transport and passenger transport



>\$1,000 million potential investment in climate-resilient municipal infrastructure planned in Indian cities



16 national governments from the Asia-Pacific, with whom we are engaging through the **Asia LEDS Partnership's** four communities of practice, which address renewable energy, clean mobility, multi-level governance and Nationally Determined Contribution finance; 6 other countries engage with the ALP periodically



02 million tonnes carbon-di-oxide equivalent GHG emissions reduction projects planned in Coimbatore, Siliguri, Rajkot and Udaipur



03 toolkits on sustainable urban development prepared and local governments provided training on use of the same



09 new avenues of work added to the organisational portfolio



06 knowledge brokering activities initiated as the Asia Regional Coordinator of Climate and Development Knowledge Network, to be implemented on ground with the help of local knowledge partners in three deep dive countries of India, Bangladesh and Nepal

climate
 knowledge
 brokering
 PEOPLE'S
 BIODIVERSITY
 REGISTERS
 VALUE
 CHAIN
 ANALYSIS
 OF BIO-
 RESOURCES
 Landscape level
 degradation mapping
 urban
 freight
 CHILD-
 FRIENDLY
 infrastructure
 platform
 RURBAN
 Gender
 and social
 inclusion
 GREEN
 CLIMATE
 FINANCE



CIRCULAR DEVELOPMENT PATHWAY

Through this pathway, we help local and regional governments decouple urban and economic development from resource consumption and factor environmental and social costs into the price of goods and services. We encourage cities to take steps towards equitable access to resources and create closed-loop urban and peri-urban systems. We aim to support development of new local economies that are productive and not extractive, where resources are exchanged and not wasted.

WAY TO A SUSTAINABLE FUTURE

We promoted resource efficiency and management strategies as key factors for building smart cities. We assisted in formulating integrated water and waste management strategies in four cities, besides building capacity of officials from urban local bodies in four states. We established a ground-breaking RURBAN platform that brings together rural and urban stakeholders to formulate water management plans, and developed a framework to facilitate these efforts.

The RURBAN (Rural-Urban) platform is a key accomplishment of our **IAdapt** (Integrated Rural Urban Water Management for Climate-Based Adaptation in Indian Cities) project, which promotes catchment-level water management. The project is being implemented in the cities of Solapur and Vijayawada. We have also developed an **IAdapt Framework** that facili-

tates development of catchment management plans for water resources shared between rural and urban users, and a **decision support tool** for designing sustainable water management projects.

We are supporting the **Greater Hyderabad Municipal Cor-**

poration (GHMC) in developing a **plastic waste management strategy and action plan**, in alignment with national missions such as Smart Cities Mission, AMRUT and Swachh Bharat Mission. In addition, we conducted **Solid Waste Management Exposure Workshops** for 240 officials from 120 urban local bodies in Telangana, Maharashtra and Rajasthan. These were organised with financial support from the Ministry of Housing and Urban Affairs (MoHUA), Government of India, under the Swachh Bharat Mission, in collaboration with the National Institute of Urban Affairs.

We were the technical implementation agency for the UN Envi-

ronment Programme - International Environmental Technology Centre (IETC) supported **“Holistic Waste Management Plan”** in Varanasi. We also implemented waste management practices on a pilot scale in one of the wards in the city. Our efforts brought about visible changes in waste management practices in one ward, with more than 60% of the households practicing segregation, almost 24 tonnes of wet waste being processed in the biomethanation plant, more than 430 kg of recyclables being collected, besides an overall improvement in public health and hygiene and infrastructure.

FUNDERS

- **IAdapt:** International Development Research Centre (IDRC), Canada
- **GHMC plastic waste management project:** Institute for Global Environmental Strategies (IGES), Japan
- **Solid Waste Management Exposure Workshops:** Ministry of Housing and Urban Affairs (MoHUA) through National Institute of Urban Affairs (NIUA), India
- **Holistic Waste Management Plan for Varanasi:** UN Environment Programme - International Environmental Technology Centre (IETC), Japan

IMPLEMENTING A NEXUS APPROACH

Through the **Integrated Resource Management in Asian cities: the Urban Nexus project**, we introduced and promoted the adoption of the Nexus approach in urban development planning in India.

A project conducted in seven Asian countries, the Nexus approach examines the interdependencies between water, energy and food sectors and the competing uses of these resources. Given the importance of the issue, the Water, Energy and Food nexus has been taken up as a focus theme by us in our knowledge brokering CDKN project.

We implemented the Nexus project in Rajkot and Nagpur in India.

The fourth and final year of our project focused on generating awareness and building capacities of stakeholders in the water, energy and food sectors to promote circular economy.

We organised trainings and national and international workshops to motivate them to think ‘out of the box’ and develop solutions for urban challenges.

These trainings, some of them organised jointly with state-level institutions, linked the Urban Nexus approach and

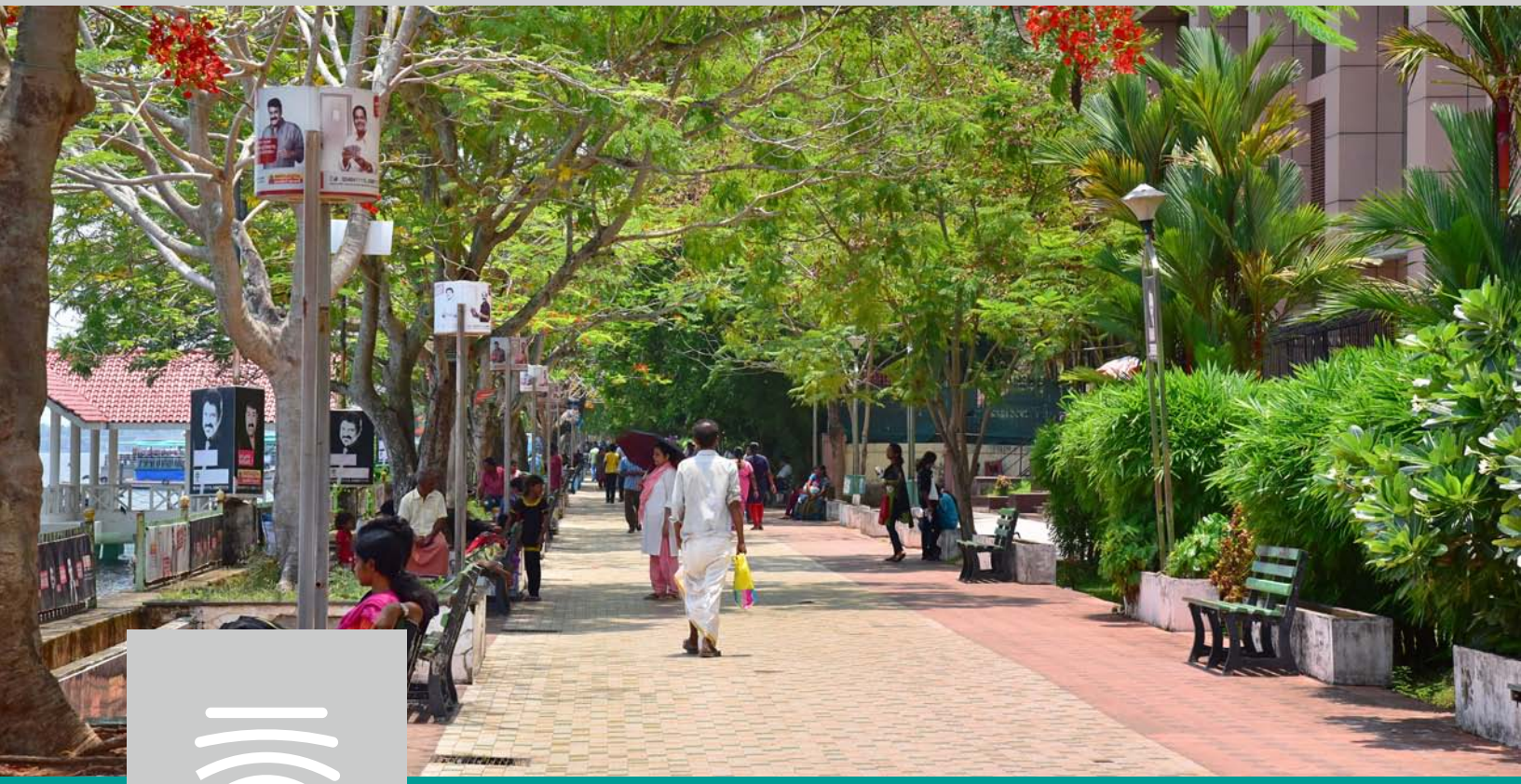
National Missions (including the Swachh Bharat Mission), as well as global agreements such as the Urban Agenda, the Paris Climate Agreement and the SDGs.

Through a quick study - conducted in Nagpur, Rajkot and Thiruvananthapuram - we collected and analysed data to gauge the status of the SDG implementation, especially in the sectors of food (SDG 2), water (SDG 6) and energy (SDG 7), with an overall focus on sustainable cities (SDG 11) against the SDG India Index. The data collected is important as most SDGs have targets that are functions of local governments, and therefore, cities have a crucial role to play in achieving them.

FUNDER

The Federal Ministry of Economic Cooperation and Development (BMZ), Germany





RESILIENT DEVELOPMENT PATHWAY

Through this pathway, we support local and regional governments to adopt resilience as a core part of municipal strategies and prepare for new risks and impacts, taking into account the rights and needs of vulnerable sections of society. We help to strengthen essential systems, thereby reducing the burden on people and environment. We pursue a transparent and inclusive approach that will enhance trust in institutions and the processes that support them.

IMPACT ON RESILIENCE FRAMEWORKS

We collaborated with six national governments in South and South-East Asia for developing climate action plans to successfully tackle adaptation and resilience challenges, besides assisting countries in three continents to achieve climate-compatible development goals. We were instrumental in the development of climate action frameworks in India and for the Indonesia-Malaysia-Thailand Growth Triangle (IMT-GT).

In India, we consider it a personal achievement that our silent action with our members substantially contributed to the formulation of the Climate-Smart Cities Assessment Framework that has been adopted and rolled out by MoHUA. The framework intends to collect and evaluate climate action data from cities, while encouraging them to adopt low-emission development strategies.

We were involved as a sectoral expert for developing the framework indicators. Under the **GIZ Climate Smart Cities programme**, we piloted the indicators in Bhubaneswar,

Coimbatore and Kochi. The programme seeks to enable the identification and consideration of climate change and its impacts in projects being considered under the Smart City plans in the three cities. A climate action plan for Kochi, addressing both climate change mitigation and adaptation, is also being prepared.

We provided technical support to the IMT-GT – a sub-regional economic cooperation programme – in preparing the **Sustainable Urban Development Framework** to support transformative green growth in the Indonesia-Malaysia-Thailand sub-re-

gion. We also prepared a framework for scaling up Green City Action Plans (GCAP), and formulated a GCAP for Kota Kinabalu city in Malaysia. In addition, we conducted a **scoping study** to assess the need for addressing water security and social

housing in an assessment of municipal infrastructure in the state of **Kedah** in Malaysia; based on the assessment, the Asian Development Bank is financing a Non-Revenue Water reduction project in Kedah.

FUNDERS

- **GIZ Climate Smart Cities Project:** Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ), India
- **Sustainable Urban Development Framework:** Center for IMT-GT Cooperation (CIMT), Malaysia
- **GCAP for Kota Kinabalu:** Asian Development Bank (ADB), The Philippines
- **Assessment of Municipal Infrastructure in Kedah:** Asian Development Bank (ADB), Bangkok

KNOWLEDGE BROKERING: KEY TO CLIMATE RESILIENCE

We are the Asia Coordinator for the Climate and Development Knowledge Network (CDKN), which helps developing countries in Africa, Asia and Latin America and the Caribbean to achieve climate-compatible development goals.

We are implementing the **Knowledge Accelerator Project**, under which **CDKN** has shifted from knowledge generation to knowledge brokering to enable implementation of actions that promote climate-resilient development. The focus is on producing peer-reviewed quality documentation and capacity building of local authorities and climate practitioners on the themes of Cities, Gender and Social Inclusion, Climate Finance and Water-Energy-Food Nexus.

Under CDKN, we are also taking up targeted projects - called the **Knowledge Basis Projects** - in India, Nepal

and Bangladesh to disseminate climate research findings on themes like climate finance, adaptation modelling, climate-smart agriculture and shared water management, besides urban heat resilience and peri-urban ecosystem development. Two Knowledge Basis Projects have been selected through an expression of interest for each country. Each of these projects has been designed to lay particular stress on gender and social inclusion.

FUNDER

International Development Research Centre (IDRC), Canada & Directorate- General for International Cooperation (DGIS), Netherlands





EQUITABLE AND PEOPLE-CENTERED DEVELOPMENT PATHWAY

Through this pathway, we support local and regional governments to pursue processes and patterns that support inclusive development for all and safeguard natural support systems for human life. We help to ensure that the liveability and safety index of the natural and built environment in and around cities improves, promoting human health and mitigating disease. We support cities to pursue secure and safe access to food, water, energy and sanitation for all, and clean air and soil.

PROMOTING KNOWLEDGE SHARING NETWORKS

We promoted the formulation of inclusive development policies in six cities, to help local governments in the region plan and develop cities that can balance sustainable development with heritage conservation and the building of strong communities.

The **PROMISE** and **HRIDAY** projects, which focused on improving city infrastructure, successfully concluded, with our project teams developing the PROMISE toolkit and guidelines, and a City HRIDAY Plan, respectively. Our newly launched Urban95 programme aims to make transform Udaipur into an infant, toddler and caregiver-friendly city with safe neighbourhoods to help nurture strong communities.

In the ‘Heritage City Development and Augmentation Yojana’

(**HRIDAY**) programme of MoHUA, we played the role of a city anchor for Amravati. The programme aimed to revitalise 12 heritage cities by supporting the development of heritage infrastructure projects. We developed a City HRIDAY Plan, reviewed project reports being finalised by the Andhra Pradesh Tourism Development Corporation and assisted MoHUA in project monitoring and evaluation of pilot implementation under the programme.

FUNDERS

- **HRIDAY:** Ministry of Urban Development (MoHUA), Government of India
- **Urban95:** Bernard Van Leer Foundation (BvLF), Netherlands



PROMISE OF DEVELOPMENT

The principle of inclusive development was at the core of the three-year **PROMISE** project, which was launched in 2016 in Ajmer, Jabalpur, Karnal and Warangal. The project aimed to improve the local authorities' capacity to enhance people's quality of life through infrastructure improvement projects being implemented under schemes such as Smart Cities, AMRUT, Swachh Bharat and Housing for All.

In its final operational year, we supported local governments in creating and institutionalising equitable and inclusive governance mechanisms.

Among the project outcomes were four road maps for: improving mobility for women in Karnal; strategy for integration of rag pickers into the waste management chain in Ajmer; low-cost sewerage management in Jabalpur; and planned development of green spaces in Warangal.

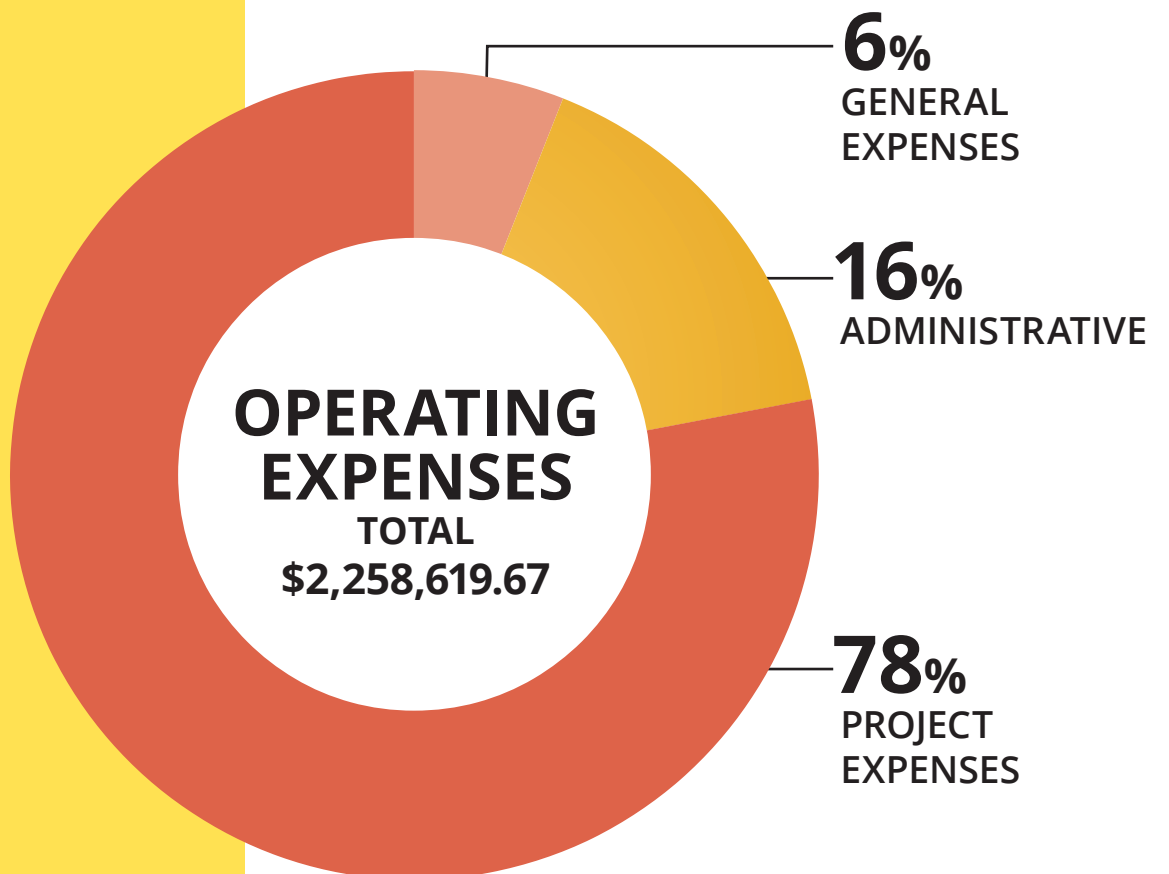
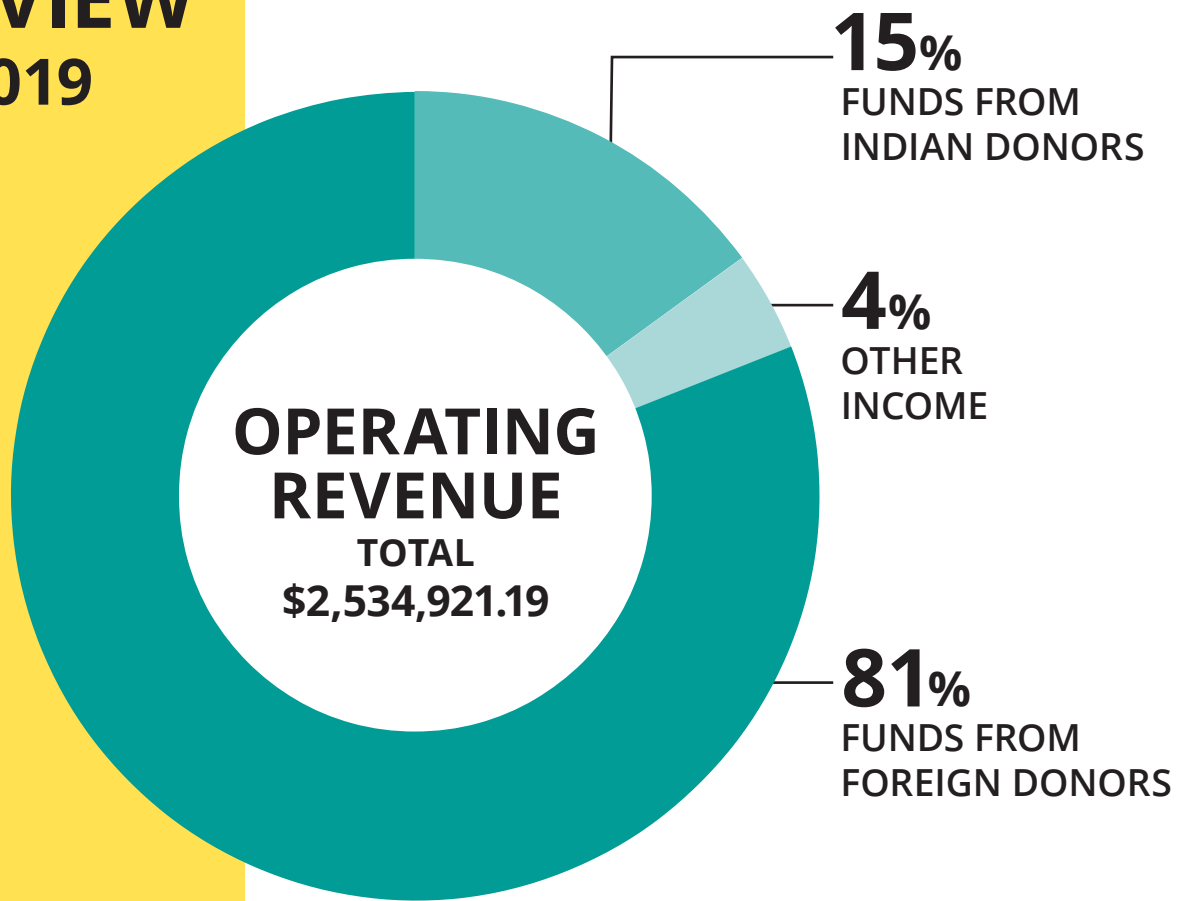
Strategies and learnings reports for all project cities and a set of guidelines for parks in Warangal were also developed by us.

A key output of the project is the PROMISE toolkit and guidelines, which will help municipalities decide the projects they want to take up first, and strengthen their capacity to implement them.

FUNDER
European Union (EU)

FINANCIAL OVERVIEW

2018-2019







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