

Rapid Introduction of Participating Cities and Organizations

Batch 3

TNC

Rob McDonald, Lead Scientist for Cities and **Joel Paque**, Policy Lead for Cities

- **Asunción, Paraguay, United Nation Development Programme**
- **Veronique Gerard and Maria Irene Gauto**
- Programme officer / Technical Manager
(Asunción ciudad verde – vías a la sustentabilidad)
- Website Address <http://www.py.undp.org/>
- Email veronique.gerard@undp.org / maria.gauto@undp.org



- **Asunción, Paraguay, Ministry of Environment and Sustainable Development**
- **Isabel Gamarra de Fox**
- Biol. MSc Biodiversity and Conservation/Mammology
- Website Address <http://www.mades.gov.py/>
- Email isabeldefox@yahoo.com



- **Main undertakings in:**

- (i) **Green Urban Development**

- MADES resolution that gives the specifications for an urban green corridor

- (i) **City Biodiversity**

- Studies carried out on biodiversity in Asunción (bird inventories, mammal monitoring)

- (i) **City Natural Capital Accounting and Nature Based Solutions**

- Creation and management of protected areas at the urban level

- **One key reflection and lesson learned in the area:**

- ☐ Paraguay has good experience in biodiversity surveys but little in natural capital accounting. However the data on biodiversity in the city is not exhaustive.

- **UNITED NATIONS INDUSTRIAL DEVELOPMENT ORGANIZATION (UNIDO)**

- **Your Name(s) / Designation(s)**

Mark Draeck

Industrial Development Officer

Thematic Lead on Sustainable Cities

Energy Systems and Infrastructure (ESI) Division, Department of Energy

- **Area of Expertise: sustainable cities; energy; mobility; integrated approaches**

- **Website Address**

www.unido.org/energy

Open data platform: <https://open.unido.org>

- **Email: m.draeck@unido.org**

UNIDO Sustainable Cities Ongoing Projects

Legend

Low Carbon
Infrastructure and
Services

Urban industrial
services

Innovative city
solutions

Cuba:
Creative and cultural
industry development

Senegal: Eco-Industrial
Parks

Cote D'Ivoire
Air quality and cleaner
urban industrial
production

Pakistan: Leather
cluster development

India:
Waste recovery to
Energy

South Africa: Clean
energy and water

China: Urban mobility
and e-mobility

Belt and Road: Carbon
neutral infrastructure
guidelines for
investment along B&R

Malaysia:
Energy systems, smart
grids and e-mobility

Biodiversity and ecosystem services

- At city level:
 - Integration of biodiversity conservation and maintenance ecosystem services into urban planning and development
 - Development of green infrastructure and preservation of nature based solutions to address water management, air pollution, urban heat island, etc.
- At enterprise level:
 - Green roofs
 - Sustainable urban drainage systems
 - Urban farming

U.K: London

Peter Massini, Lead of Green Infrastructure Development

www.ubhub.org

URBAN BIODIVERSITY HUB



Empowering local governments to plan with nature

Jennifer Rae Pierce

Head of Partnerships & Engagement

ubhub.org@gmail.com

URBAN BIODIVERSITY HUB

The Urban Biodiversity Hub helps cities around the world to choose a biodiversity strategy, then measure and improve their biodiversity strategy and action plans.

Publicly accessible at
ubhub.org

UBHub offers:

Under development
with city partners

Public Site

Database of
Plans & Activities

Resources
of Practices
& Standards

myHub Members Site

Experts
Forum

Indicator
Tracker



Public Database

www.ubhub.org/map

Features:

- Largest global database of urban activities with nature
 - Over 1300 locations
 - Compiles data from 26 programs
- Available as a map, table, and guide

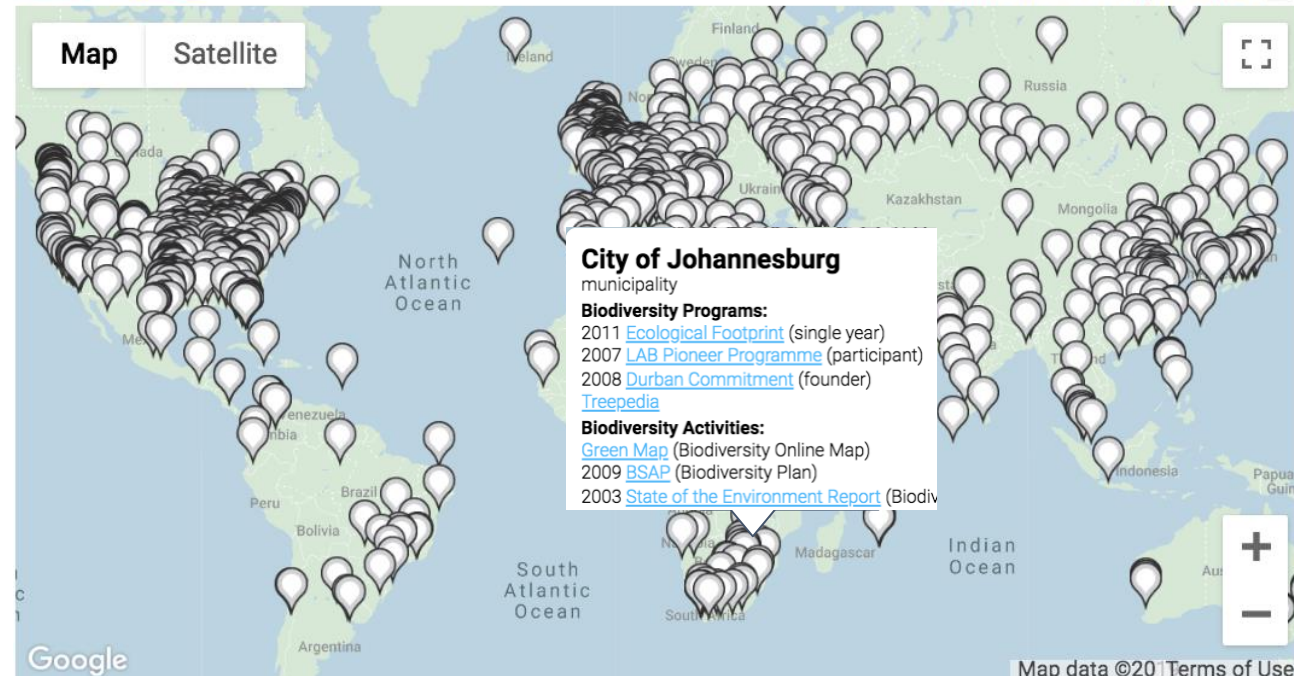
Advantages

- Showcase your initiatives
- Locate comparable activities
 - Links to plans and policies
 - Filter by density, biome, etc.
 - Highlight by program
- Compare indices and other programs

Map

[Login](#) or [sign up](#) to make suggestions on our forum.

[Show biodiversity hotspots](#) ☐



Results Summary

Highlight Results

Filter Results

Scale

Land Area (km²)

Biodiversity Hotspot

Population

Density (People/km²)

Biome (WWF)

Biodiversity Activity

Program or Index

Conservation Status (WWF)

Table of Results

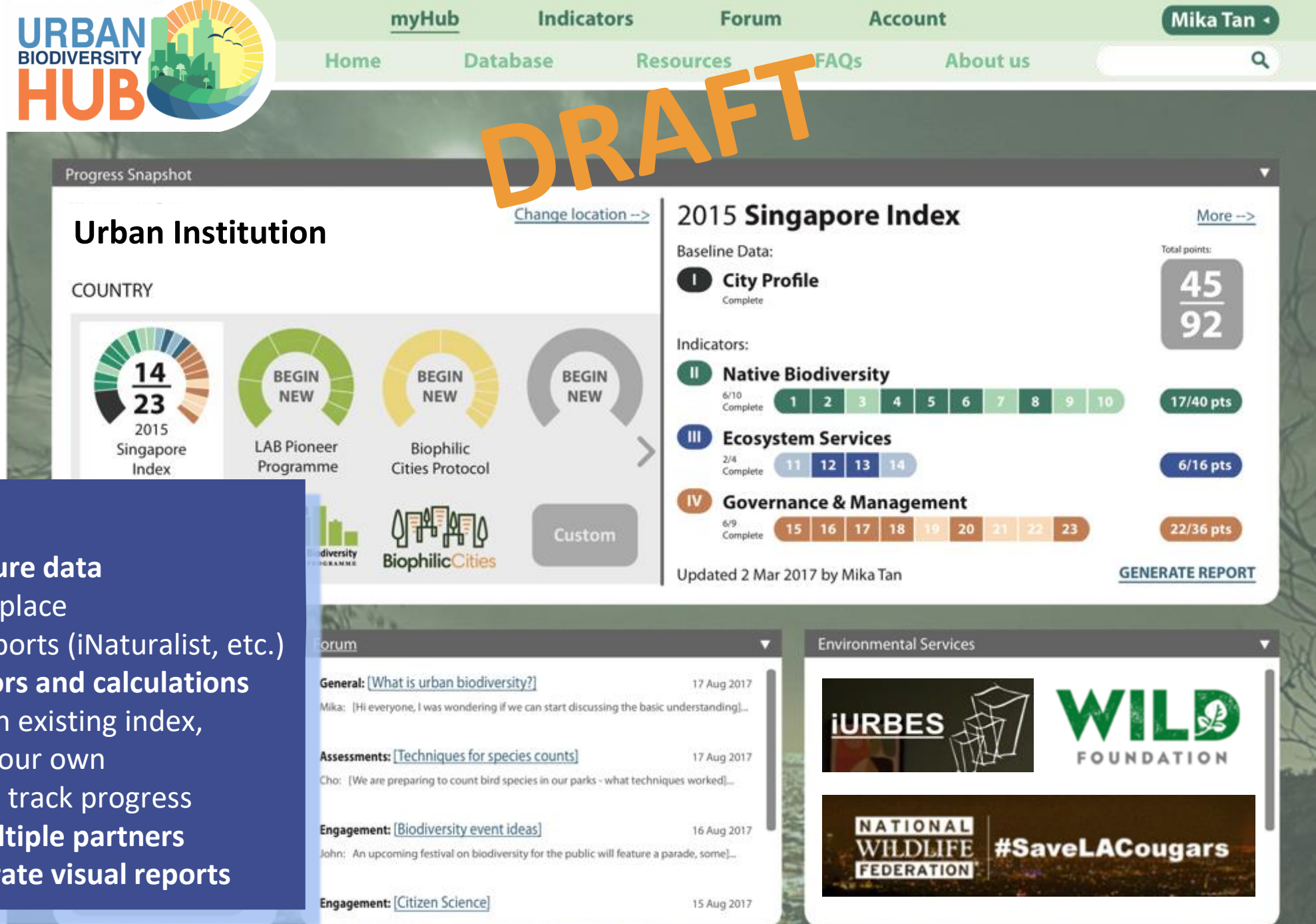
Under development
with city partners

myHub platform

for municipalities to
measure and track their
biodiversity efforts

Advantages

- **Organize and structure data**
 - All data in one place
 - Automated imports (iNaturalist, etc.)
- **Standardize indicators and calculations**
 - Choose from an existing index,
 - Or customise your own
 - Set targets and track progress
- **Coordinate with multiple partners**
- **Automatically generate visual reports**



Vivid Economics is a leading strategic economic consultancy

Founded in London in 2006, we now have:

- a team of over 70 economists
- staff in the UK, the Netherlands, Peru, Brazil and the USA

An ability to use economic expertise to deliver original, robust and useful solutions:

- we have a strong network of leading academics
- we leverage innovative models and methodologies

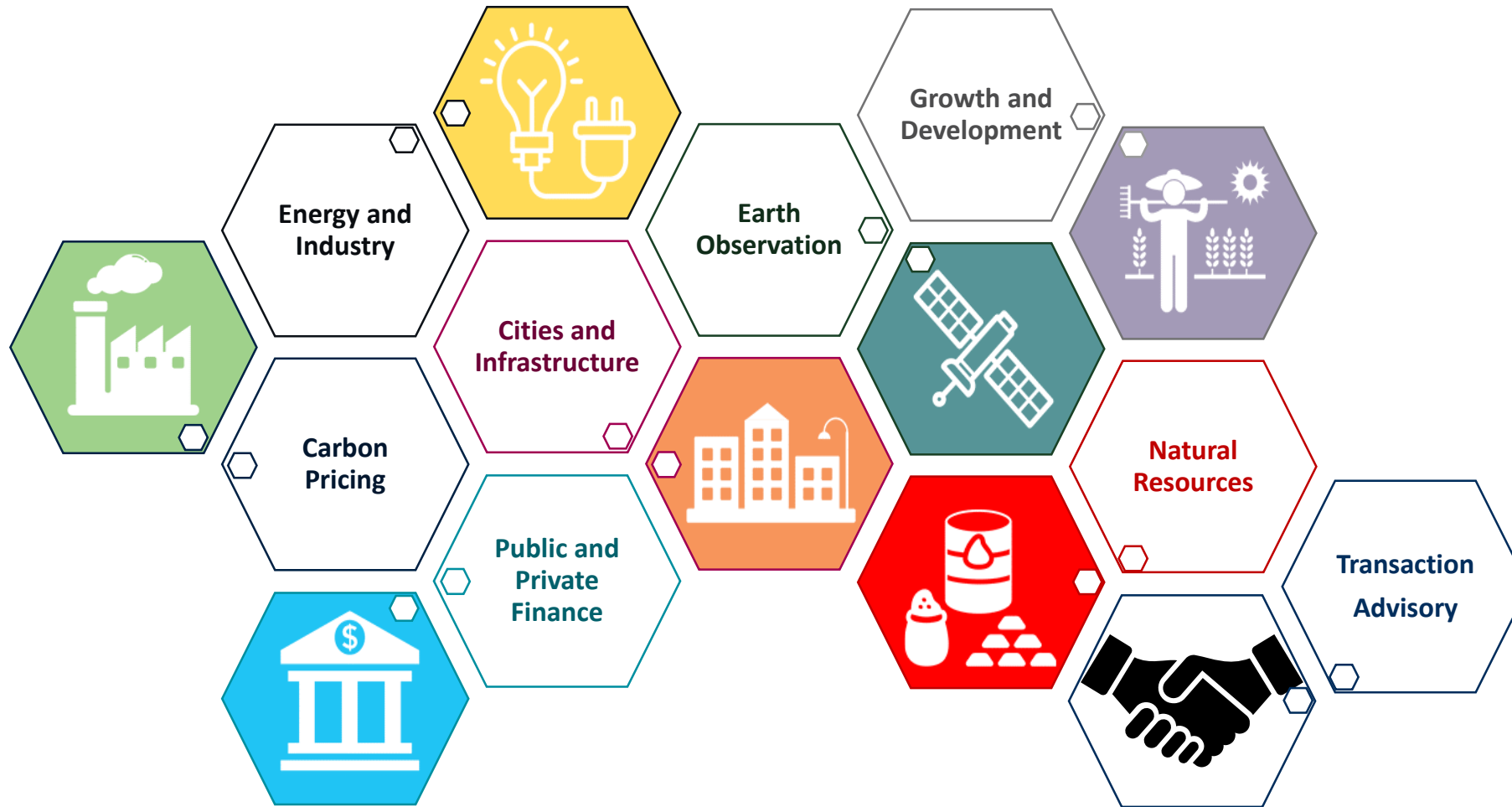
Broad experience across sectors and themes:

- expertise in infrastructure, industry, resources and finance
- themes of growth, competition, and innovation
- industry leaders in applying and developing economic tools

Work in more than 60 countries for governments, development institutions and private sector clients



Delivering projects across eight core service offerings



Vivid is leading GREENKEEPER – an innovative \$ 1.7 million research project to develop a new tool to value urban green space





Contact us: Vivid Economics Limited 163 Eversholt Street London NW1 1BU	Author contact details: T: +44 (0)844 8000 254 E: james.patterson-waterston@vivideconomics.com
--	---

Company Profile

Vivid Economics is a leading strategic economics consultancy with global reach. We strive to create lasting value for our clients, both in government and the private sector, and for society at large.

We are a premier consultant in the policy-commerce interface and resource and environment-intensive sectors, where we advise on the most critical and complex policy and commercial questions facing clients around the world. The success we bring to our clients reflects a strong partnership culture, solid foundation of skills and analytical assets, and close cooperation with a large network of contacts across key organisations.

Practice areas

Energy and industry	Growth & development
Cities and infrastructure	Competitiveness & innovation
Natural resources	Public and private finance



WORLD
RESOURCES
INSTITUTE

C40
CITIES

I.C.L.E.I
Local
Governments
for Sustainability

WORK PLAN FOR THE GPSC RESOURCE TEAM 2019



March, 2019

RESOURCE TEAM ACTIVITIES

1 – Needs assessment and peer exchange

- Sustainable Urban Development Assessment
- Capacity Development Plan
- Peer exchanges and documentation

2 – Learning events

- City Academy and documentation
- Side Events
- Promotional Events
- Webinars

3 – Knowledge management + documentation

- Library of Knowledge
- New Knowledge/Research
- Adaptation of existing tools

UPCOMING LEARNING EVENTS

Month	Day	Details
February	7	Webinar: Nature-Based Solutions [WRI]
March	14	Webinar: Tactical Urbanism [WRI]
	29	Webinar: Urban GHG Emission Inventories - Evolution of Accounting Frameworks [ICLEI]
April	4	Webinar: Delivering Local Resilience [ICLEI] Webinar: Sustainable Waste Systems: Accra's transfer facilities [C40]
	15-17	Peer exchange: Resilient Cities Asia Pacific in Delhi, India [ICLEI]
May	30	Webinar: Introduction to City Climate Action Planning. [WRI]
June	12	Peer exchange: Financing Sustainable African Cities [C40]
	26-28	Peer exchange: Resilient Cities in Bonn, Germany [ICLEI]
July	10-12	Peer exchange: World Cities Summit in Medellin, Colombia [C40]

UPCOMING LEARNING EVENTS

Month	Day	Details
August	TBC	Webinar: Food Systems or Air Quality [C40]
	TBC	Peer exchange: Air Quality in Mexico City [WRI]
September	16-20	3rd Annual GPSC event in Sao Paulo, Brazil [World Bank] City Academy 2 in Sao Paulo, Brazil [C40]
	9-12	Peer exchange: C40 Mayors Summit Copenhagen, Denmark [C40]
October	TBC	Webinar: Sustainable mobility. [ICLEI]
	TBC	Webinar: Land Use Planning [C40]
November	11-22	Promotional event: UN COP 25 in Santiago, Chile [WRI]
	TBC	Webinar: Renewables [ICLEI]
December	TBC	Webinar: Energy & Buildings [C40]
January	TBC	Peer exchange: Transforming Transportation 2020 and integrated sustainability solutions in Washington, DC [WRI]
February	TBC	Africa Peer Exchange [ICLEI]



RESOURCE TEAM KNOWLEDGE PRODUCTS

- Contributions of key knowledge pieces to [GPSC library of knowledge](#) will be continuously added
- C40
 - Deadline 2020: How Cities Will Get the Job Done (English and French)
 - Summary for Policy Makers: What the IPCC Special Report on Global Warming of 1.5 C Degrees Mean for Cities
 - Focused Acceleration: A Strategic Approach to Climate Action in Cities to 2030
 - Climate Action Planning Framework (English, French, Portuguese)
 - Opportunity 2030: Benefits of Climate Action in Cities
 - Climate Opportunity: More Jobs, Better Health, Liveable Cities
 - Urban Climate Action Impacts Framework
 - Consumption Based GHG of C40 Cities
 - Benefits of Climate Action: Piloting Global Approach to Measurement
 - How to finance urban infrastructure? C40 Cities Finance Facility
 - Financing the Urban Transition: Policy Makers Summary
 - Using Data for Policy: A manual for C40 Cities (English and Spanish)
 - Municipality-led Circular Economy Case Studies
 - 11 Thematic Good Practice Guides (In English and Mandarin)

RESOURCE TEAM KNOWLEDGE PRODUCTS

- **ICLEI**
 - Multilevel climate action: The path to 1.5 degrees
 - Boosting subnational climate action through new climate governance
 - Measuring, Reporting, Verification (MRV) of Urban Low Emission Development; ICLEI's GreenClimateCities Handbook for Local Governments
 - Solutions Gateway Sourcebook; Low Carbon Solutions for Urban Development Challenges
 - Smart Management for LED-based Public Lighting; City of Buenos Aires, Argentina
 - Land degradation and cities: The essential role of local and regional governments
 - Innovative city-business collaboration; Emerging good practice to enhance sustainable urban development
 - Creating a world class culture of eco mobility; the case of Kaohsiung City
 - A model for Transit Oriented Development; Curitiba, Brazil
 - Promoting livability through sustainable transportation; City of Leipzig, Germany
 - Resilient Cities Report 2018; Tracking local progress on the resilience targets of SDG 11
 - Urban transitions insights from industrial legacy cities
 - Procura + Manual
 - Public Procurement for a Circular Economy
 - Driving energy efficient innovation through procurement - A practical guide for public authorities
 - Success stories in socially responsible public procurement
 - Buying Green!
 - Handbook on the Public Procurement of Biobased Products and Services
 - Summary of good practice of successful project preparation facilities
 - Data speak louder than words
 - Operationalizing the Urban NEXUS: Towards resource-efficient and integrated cities and metropolitan regions
 - A greener tomorrow: Water management in urban redevelopment; Dortmund, Germany
 - Recovering energy from biogas produced in wastewater treatment plants; the case of Almada in Portugal
 - Nature-based solutions for sustainable urban development
 - Talanoa and Beyond: Raising Ambition with Cities and Regions

RESOURCE TEAM KNOWLEDGE PRODUCTS

- **WRI**
 - Safe Access Manual: Safe Access to Mass Transit Stations in Indian Cities
 - Safe Access Manual short video introduction
 - Cities Safer by Design
 - Sustainable and Safe: A Vision and Guidance for Zero Road Death
 - International Case Studies on Public Communication and Consultation Strategies for Low Emission Zones and Congestion Charging Schemes
 - TOD Guide for Communities
 - Mapping Social Landscapes: A Guide to Identifying the Networks, Priorities, and Values of Restoration Actors
 - Global Protocol for Community-Scale Greenhouse Gas Emission Inventories
 - Accelerating Building Efficiency Eight Actions for Urban Leaders
 - Water Infrastructure Criteria under the Climate Bonds Standard
 - Sludge to Energy: An Environment-Energy-Economic Assessment of Methane Capture from Sludge in Xiangyang City, Hubei Province
 - Strengthening Nationally Determined Contributions to Catalyze Actions That Reduce Short-Lived Climate Pollutants
 - From Planning to Action: Mainstreaming Climate Change Adaptation Into Development
 - Powering Cities in the Global South: How Energy Access for All Benefits the Economy and the Environment
 - PROJECTS AND PROGRAMS MANUAL TO ENCOURAGE CYCLING IN COMMUNITIES
 - Water, Security and Conflict
 - Confronting the Urban Housing Crisis in the Global South: Adequate, Secure, and Affordable Housing
 - Connected Urban Growth: Public-Private Collaborations for Transforming Urban Mobility
 - Rail Plus Property Development in China: the Pilot Case of Shenzhen
 - Governance of Inclusive Transit-Oriented Development in Brazil
 - Resource Watch
 - Transport Emissions & Social Cost Assessment: Methodology Guide
 - Bus Rapid Transit in China: A Comparison of Design Features with International Systems
 - Ending Tropical Deforestation: REDD+: Lessons from National and Subnational Implementation
 - Accelerating Mini-grid Deployment in Sub-Saharan Africa: Lessons from Tanzania
 - Financial Returns from Restoration
 - Global Architecture of Climate Finance
 - Financing Sustainable Cities Initiative
 - Global Protocol for Community-Scale Greenhouse Gas Emission Inventories
 - WRI Explains: 6 Road Design Changes That Can Save Lives
 - Cities are Taking on Electric Buses: How the FSCI Helps Accelerate the Transition
 - Confronting the Urban Housing Crisis in the Global South: Adequate, Secure, and Affordable Housing

UPCOMING KNOWLEDGE PRODUCTS

- Climate Action Planning Tool (Spanish & Mandarin) [C40]
- Adaptation and Land Use Planning Toolkit (Language TBC) [C40]
- TOD Corridors modules (Mandarin) [WRI]
- TUMI learning guides material [WRI]
- Livable Neighborhoods Learning Guide [WRI]
- Recife: A Case Study on Climate Finance [ICLEI]
- Latest developments on GHG emissions inventories [ICLEI]
- Integrated planning case studies (Bangalore, Mexico City, Recife, Shenzhen) [WRI]

ANNEX: PAST ACTIVITIES

RESOURCE TEAM SUMMARY OF ACTIVITIES FINALIZED [OCT 2017-DEC 2018]

Subcomponents/Activities	Details
Peer exchanges	<ul style="list-style-type: none"> • ICLEI World Congress (Montreal) June 19-22, 2018 • Africa Green Growth Forum (Kigali) November 27-30, 2018
City Academy	<ul style="list-style-type: none"> • City Academy on climate action planning and TOD (Singapore) November 26-28, 2018
Side events [organization or collaboration with hosts]	<ul style="list-style-type: none"> • 1st Meeting of the GPSC (Singapore) March 7-11, 2016 • 8th Global Forum on Urban Resilience & Adaptation (Bonn) May 6, 2017 • 2nd Annual Meeting of GPSC (New Delhi) October 30-November 1, 2017 • Financing & Implementing Sustainable Cities World Urban Forum (Kuala Lumpur) February 10, 2018 • GPSC Expert Meeting (Washington, DC) April 23-24, 2018 • Ibero-American Summit on Sustainable & Resilient Cities (Asuncion) September 5-7, 2018 • 5th International Low Carbon City Forum (Shenzhen) September 26-28, 2018 • COP24 United Nations Climate Change Conference (Katowice) December 2-15, 2018



RESOURCE TEAM SUMMARY OF ACTIVITIES FINALIZED [OCT 2017-DEC 2018]

Subcomponents/Activities	Details
Promotional events	<ul style="list-style-type: none"> • 9th Session of the World Urban Forum (Kuala Lumpur) February 7-13, 2018 • 6th GEF Assembly Roundtable-Sustainable Cities (Da Nang) June 27, 2018 • GEF National Dialogue for India (New Delhi) September 17-18, 2018
Webinars	<ul style="list-style-type: none"> • TOD 1: TOD As A Strategy to Achieve A Sustainable City (Spanish) March 15, 2018 • TOD 2: Fundamental Elements of TOD (Spanish) April 26, 2018 • TOD 3: Design Components & Urban Planning (Spanish) May 24, 2018 • TOD 4: Investment in TOD (Spanish) June 21, 2018 • TOD 5: Inclusive TOD (Spanish) July 19, 2018 • Enabling Safe Access to Mass Transit October 25, 2018 • Compiling Greenhouse Gas Inventories for Cities Using the Latest Standard November 30, 2018 • Business Models for Electric Bus Adoption December 6, 2018
Library of knowledge	<ul style="list-style-type: none"> • GPSC website (content submitted by ICLEI, WRI, C40)



- **WWF**
- **Tabaré A. Currás/ Global Advisor Urban Energy Transitions**
- Energy and Climate
- <http://wwf.panda.org>
- tabare.curras@wwf.se



- **Your organization's main undertakings in:**

- (i) Green Urban Development:**

- Theme: transparent reporting, *peer reviewed evaluation and feedback on holistic (mitigation and adaptation) climate strategies.*

- E.g.: the One Planet City Challenge (OPCC) and its *method to align to 1.5°C, evaluation framework that emphasize evidence-based climate action planning and approach to tailored made action-oriented advice.*

- Alliances: ICLEI and CDP.

- (i) City Natural Capital Accounting and Nature Based Solutions**

- Themes: *sustainable infrastructure, resilience, natural capital, disaster risk reduction and response*

- E.g. (Alliances): improved framework for pre-feasibility, “upstream” infrastructure planning (GIZ) / Natural Capital Project (TNC, Stanford, University of Minnesota, Chinese Academy of Sciences, Stockholm Resilience Centre) / Flood Green Guide (USAID and the Army Corps of Engineers) / Green Recovery and Reconstruction Toolkit (Red Cross) / Landscape Finance Lab (Climate-KIC) / African Ecological Futures (AfDB and UN Environment) / National Platform for Sustainable Cities and Climate Change in Lima (IADB, MINAM).

- **One key reflection and lesson learned in the area:**

- ☐ Green and resilient urban development must take place within the context of larger regional or landscape-scale spatial plans.