# Theme 5:
# Urban Growth & Environmental Stewardship

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# The challenge of urbanisation

# The challenge of urbanisation

- **Rapid urbanisation** – natural growth and migration
- **Young population** – demographic dividend
- **Unemployed population** – future of work? New economy?
- **Legacy of extractivism** – new economies & beneficiation?
- **Informal settlements & economies** – legitimate or shunned – how are these systems 'formalised' or legitimised by the city
- **Circular migration** – temporary jobs; questions of ownership and urban investment vs. remittances to 'rural' home.
- **Service delivery & infrastructure development challenges –** and opportunities
- **Socio-technical leapfrogging** – the opportunity to skip tech, learn from other cities and avoid lock-in to expensive/polluting/unsustainable systems.
- **Digital Leapfrogging –** ICT reshaping urban economies & distribution
- **Encroachment of built area into natural environments?**

# Why Urban Nature?
# What are the benefits?

# Nature's benefits: **provisioning services** – products from ecosystems

# Nature's benefits: **regulating services** – air quality maintenance & climate regulation

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# Nature's benefits: **regulating services** – water purification

# Nature's benefits: **regulating services** – storm protection

# Nature's benefits: **habitat and genetic diversity** – intrinsic & functional value

# Nature's benefits: **cultural services –** eco-tourism & sense of place

# Nature's benefits: **cultural services –** recreation and sense of space

# Physical – Psychological Well-being from nature's benefits

# How do we re-embed nature in our human settlements?

# Two peer-to-peer platforms for learning about and reincorporating urban nature

Cities4Forests

CitiesWithNature

# Cities4Forests

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# What is on offer to partners in the Cities4Forests Network?

1. Access to technical assistance
2. Public engagement campaigns
3. A peer-to-peer exchange network

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# INNER FORESTS OFFERS

- Making the case for urban trees (tools, metrics for valuing trees)
- Special support and/or discrete projects for major opportunities
- Experience sharing/peer visits/study tours between C4F cities focused on urban forests
- Building trees/forests into urban infrastructure planning, investment, and governance structures
- Financing models and financing for urban forests and green infrastructure

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# NEARBY FOREST OFFERS

- Guidance on how to consider the science and conduct economic analyses
- Special support and/or discrete projects for major opportunities
- Peer-to-peer visits and learning exchanges for source water protection
- Guidance on building partnerships and governance structures (e.g., with water utilities, downstream companies)
- Business models and financing approaches for nearby forests and natural infrastructure

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# FARAWAY FOREST OFFERS

- Guidance in establishing “deforestation-free” procurement policies and plans
- Exposure to a “sister forest” program,  where urban residents can participate in programs designed for mutual benefit and engagement.
- Assistance in helping cities meet their carbon commitments through sourcing sustainably certified, forest-based carbon credits.

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# Shared Common Goals

Cities4Forests Declaration:

*"Because urban areas are increasingly where people live and work, the public policies and procurement practices of cities—as well as the values, votes, and consumption patterns of residents—have enormous potential to support the conservation, restoration, and sustainable management of forests."*

*"With our varying mandates and capabilities, collectively we commit to doing our part to achieving the following outcomes:"*

- ❑ Understand
- ❑ Engage
- ❑ Innovate and Act
- ❑ Progress
- ❑ Share

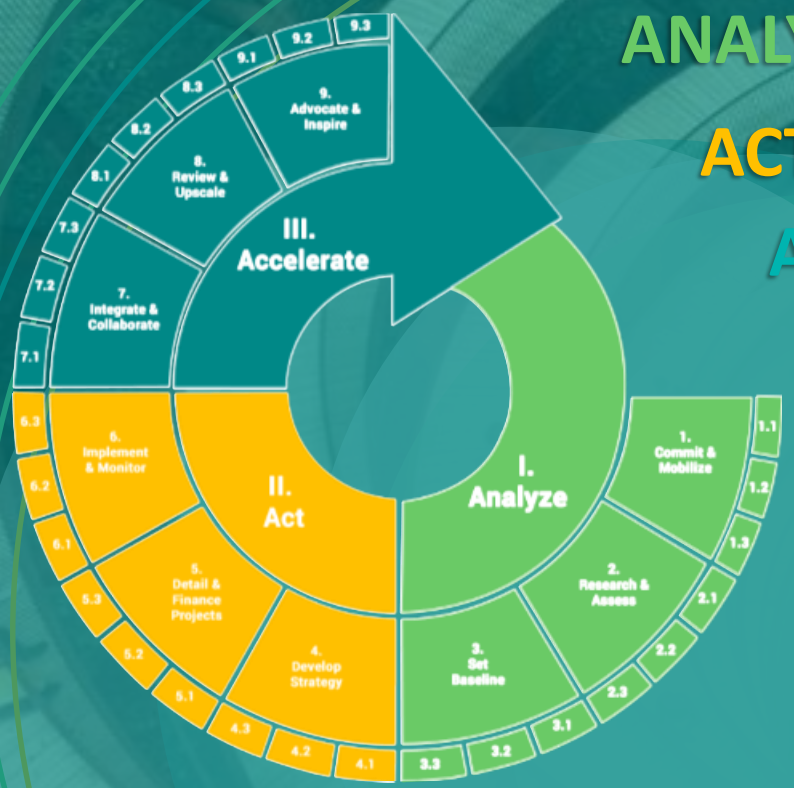
More than

**50**

**CitiesWithNature** Pioneers committed to taking **action for nature**

# CitiesWithNature

## Registry: *Nature Pathway*




**ANALYZE**

**ACT**

**ACCELERATE**

## 1st Pathway
## THE NATURE PATHWAY

Cities will **be guided on a journey** of exploration and inspiration, sharing with and learning from other cities

**Tools** from leading **global organizations**, as well as cities, will be integrated along the Pathway

# NATURE PATHWAY

## PHASE 1: ANALYZE > STEP 1 . COMMIT & MOBILIZE >

### 1.1 SECURE INITIAL COMMITMENT: < 1 2 3 >

**Our city has made a political commitment to being a 'city with nature'.**

+ WHAT DOES THIS MEAN?
+ WHY IS THIS IMPORTANT?

### YES
### SHARE & INSPIRE OTHERS

**PLEASE UPLOAD:**

Official document(s) and/or statements by the Mayor and/or Council committing your city as a 'city with nature'

Your city's vision statement which includes a commitment to nature

Upload file | UPLOAD

Only PFD files can be uploaded.

Upload file | UPLOAD

Please use this block for sharing links to relevant videos and articles.

* By uploading this information, you affirm that you have the right to do so and agree that it will appear on your City's profile page.

### NOT YET
### LEARN FROM OTHERS

There are various ways in which your city can show its commitment, from signing declarations, such as the Durban Commitment to formulating a vision. Useful tools and examples include:

**TOOLS:**

- CBD Guidelines on Biodiversity and Tourism Development (Part B, Chapter 2)
- ICLEI CBC Local Biodiversity Strategy and Action Plan Guidelines
- ICLEI CBC Wetland Strategy and Action Plan Guidelines

**EXAMPLES:**

- City of Cape Town Environmental Resource Management Department – Biodiversity Management Branch Strategic Plan 2009 - 2019
- City of Melbourne: Nature in the City Strategy

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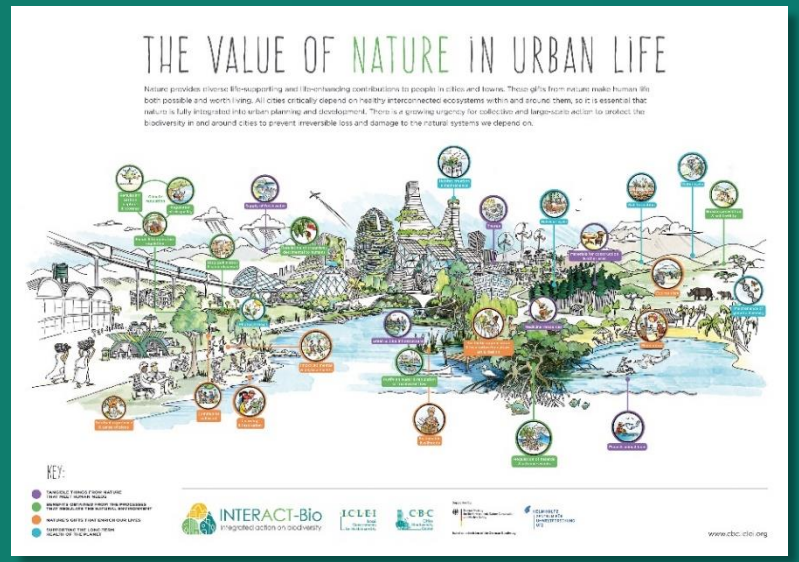
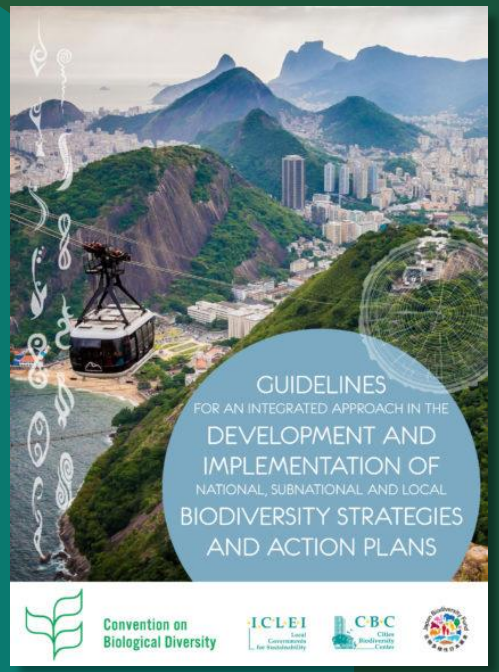
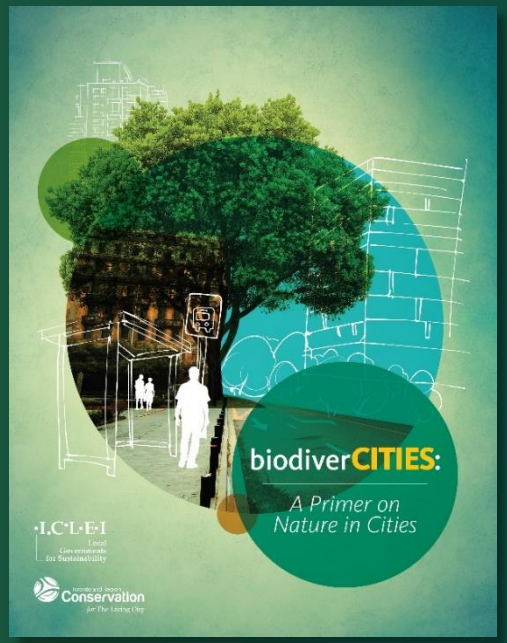
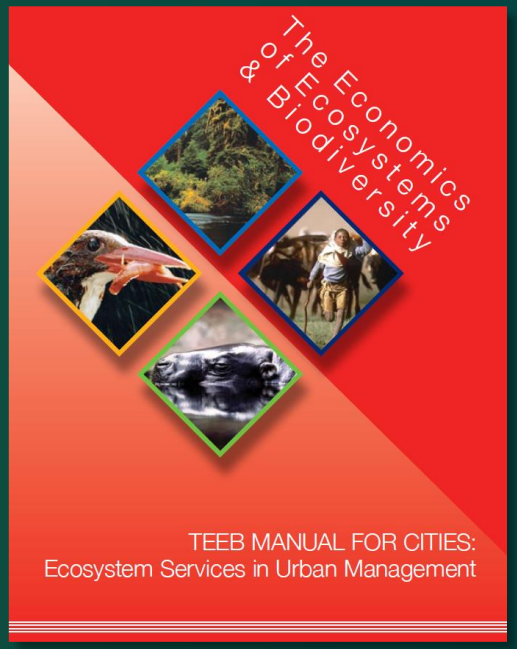
## Selection of tools




The Nature Conservancy

**WATER FUNDS**
TOOLBOX

NATIONAL PARKS
LET'S MAKE SINGAPORE OUR GARDEN

SINGAPORE INDEX ON CITIES' BIODIVERSITY

INTERACT-Bio
Integrated action on biodiversity

# Wallasea Island Wild Coast project

Wallasea: On the east coast of England

Aim: to combat the threats from climate change and coastal flooding by removing the sea wall and restoring 133ha mudflat, 29ha lagoons, 276ha salt marsh, 109ha coastal grazing marsh, 53ha saline lagoons, 15ha of rotational arable fields.

INTERACT-Bio
Integrated action on biodiversity

# Wallasea Island Wild Coast project

- *Costs:*

  Physical implementation works of around £17.5m. Future work (possibly costing £12m. or more) to deliver and manage habitats. Management and administration activities are estimated to be on the order of £190,000 annually.

- *Benefits:*
  - ✓ Carbon sequestration £1.7 million over the next 50 years;
  - ✓ Avoided expenditures for flood defence infrastructure over 10 years (ca. £5 – £10 million) and from the avoided loss of built assets on Wallasea worth £3.1 million under moderate flood event scenarios;
  - ✓ 16.6 net jobs created in the local economy and up to 20.9 in the wider region over a 10-year period.

# Cities4Forests

**There is an Economic Case to be made to Protect Forests and Reap Downstream Benefits**

Natural Infrastructure in São Paulo's Water System, finds that restoring 4,000 hectares (nearly 10,000 acres) of forests could reduce sediment pollution by 36 % within 30 years, reducing turbidity by almost half and potentially boosting water supply when it's most scarce. All it takes is planting trees in the right places.

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**And innovative financing is available to work on these projects**

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RELEASE: Forest Resilience Bond to Help Fund $4.6 Million Restoration Project to Mitigate Wildfire Risk in Tahoe National Forest

## RELEASE: Forest Resilience Bond to Help Fund $4.6 Million Restoration Project to Mitigate Wildfire Risk in Tahoe National Forest

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## Start-up Blue Forest secures funding for first privately financed forest fire bond

By JAMES RUFUS KOREN NOV 01, 2018 | 3:00 AM

Leigh Madeira, left, and Zach Knight, center, two founders of Blue Forest Conservation, tour an area near Yosemite National Park scorched by the 2013 Rim Fire. (Marcus Yam / Los Angeles Times)

In a remote corner of the Sierra Nevada, amid 8,000-foot peaks and deep river gorges, a financial experiment is about to begin.

Once this winter's snow melts, workers will cut down small trees and burn off undergrowth across 5,000 acres of the Tahoe National Forest. But those workers won't be paid by the U.S. Forest Service or any other public agency that typically funds forestry projects.

Instead, the roughly $4 million will come from two foundations, an investment firm and an insurance company — which hope to make money on the deal.

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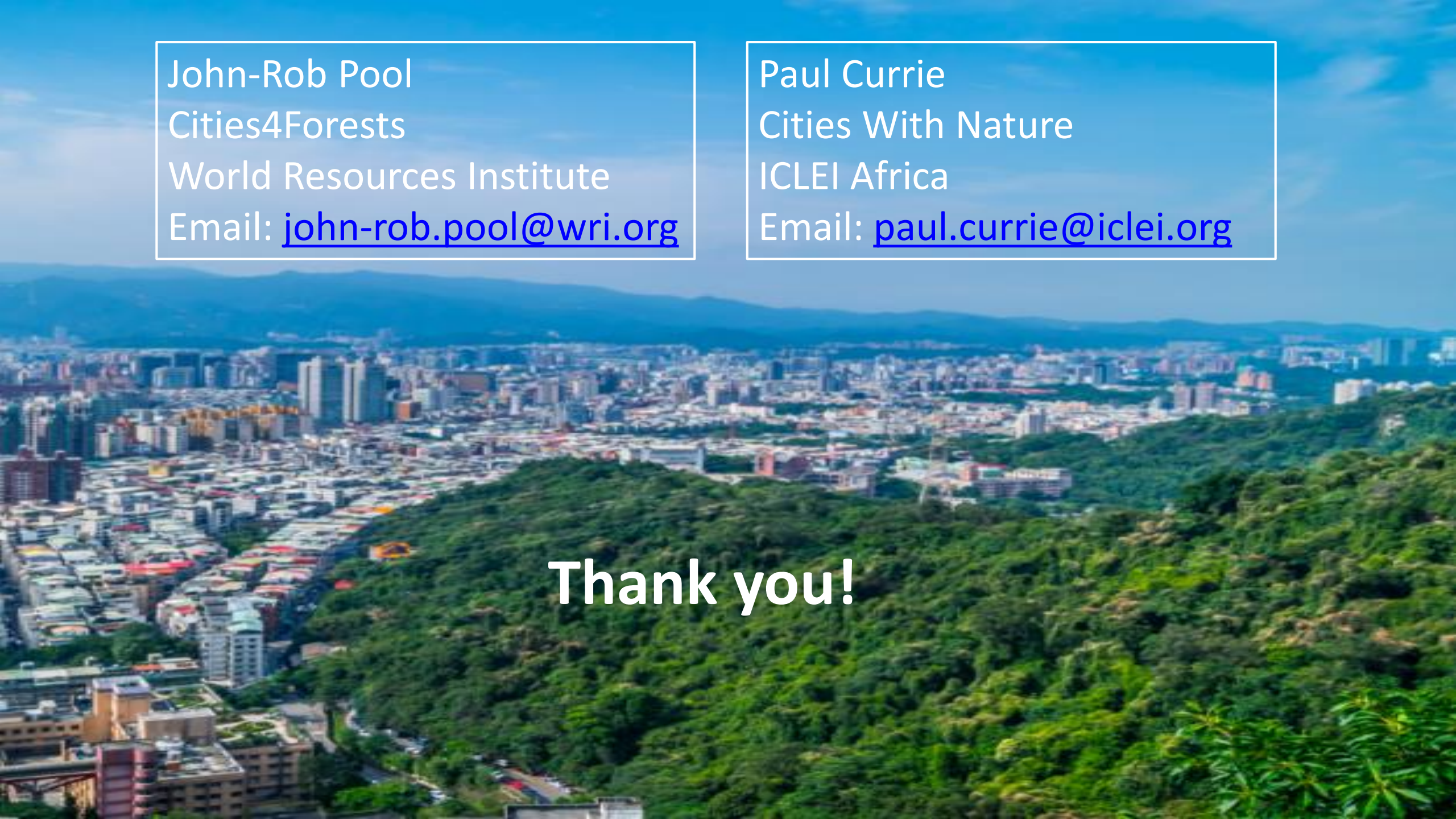

# Thank you!