

Driving the Green Recovery and Redesign

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**“Driving the Green Recovery and Redesign: Embedding Local Climate Action
at the Heart of Economic Stimulus Packages – Session 1”**

Daring Cities 2020

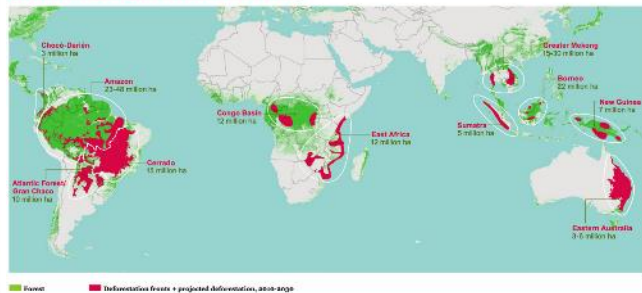
21 October 2020 @ 10:00 - 11:30 UTC+2



The COVID-19 Pandemic & Unsustainable Development

Rapid Deforestation

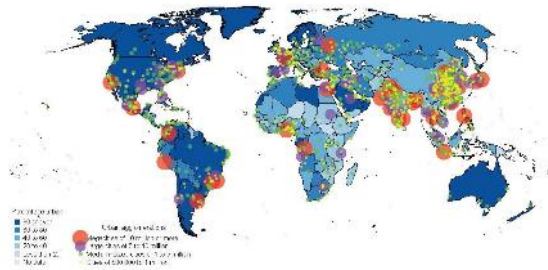
MAP OF DEFORESTATION FRONTS



Mongabay News 27 Apr 2015

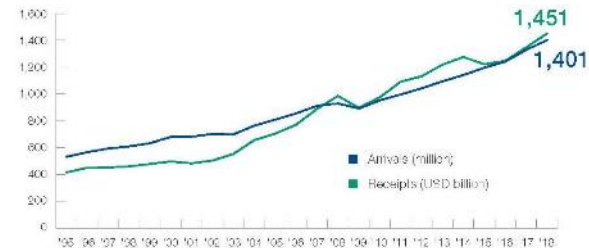
Rapid Urbanisation

Map 1. Percentage urban and urban agglomerations with 500,000 inhabitants or more, 2018



UN World Urbanization Prospects 2018

Massive Movement of People



International tourist arrivals (million) and tourism receipts (USD billion)
Source: World Tourism Organization (UNWTO), July 2019.

UNWTO Tourism Highlights 2019

Unsustainable paths are accelerated

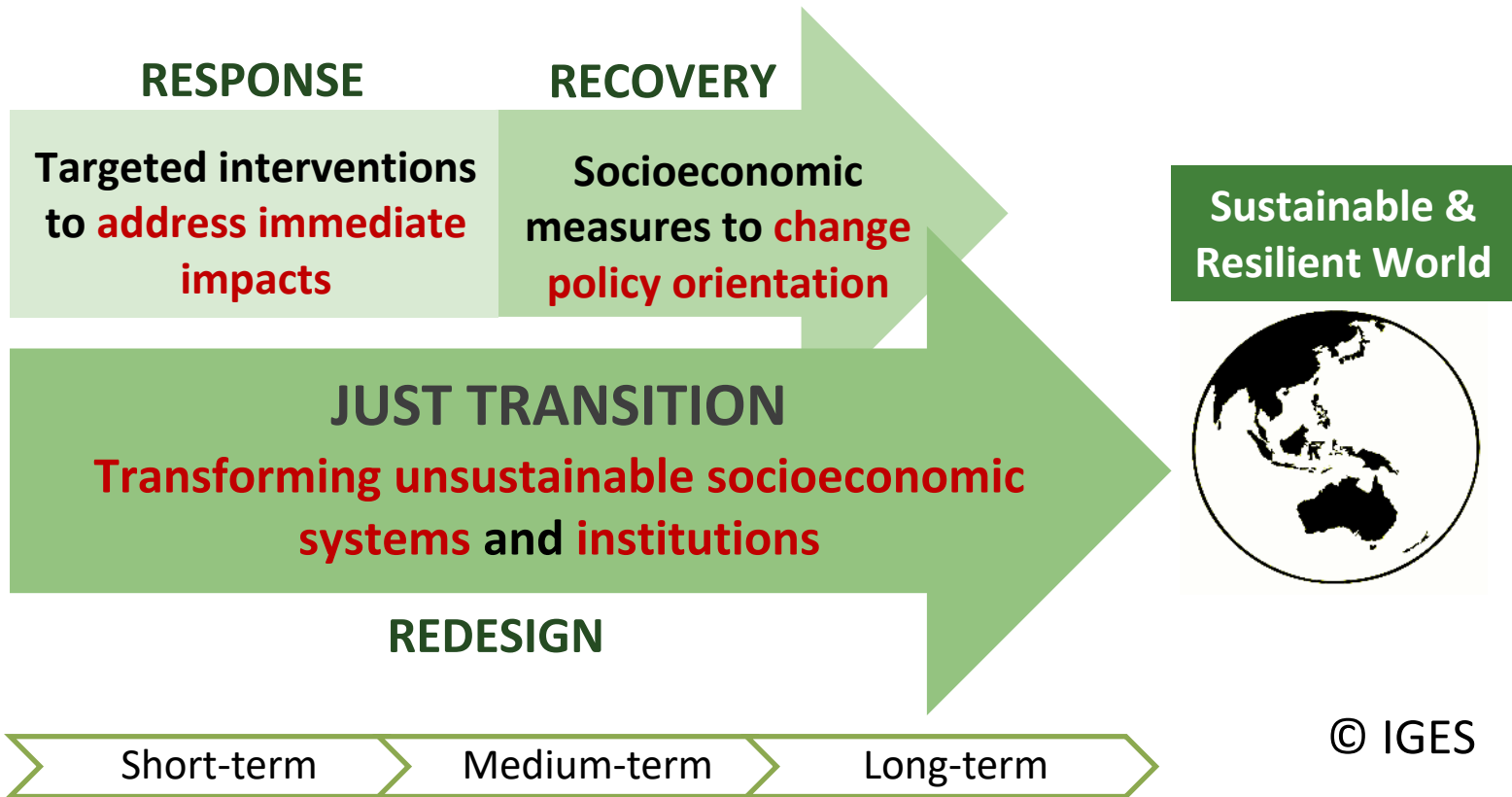
**Biodiversity
Loss**

**Climate
Change**

Disasters

**Infectious
Diseases**

The “Triple R Framework” (Response-Recovery-Redesign)



Principles and Approaches for 'Redesign' Thinking

RESPONSE

RECOVERY

- ◆ **Healthy planet, healthy people**
- ◆ Long-term prosperity within the **planetary boundaries**
- ◆ Relationship between **natural systems** and **humans**
- ◆ **Integrated** and **synergetic approaches** (e.g. SDGs, Climate, Biodiversity and DRR)
- ◆ **Global** issues, **social** issues and **human** issues

Sustainable &
Resilient World



RESPONSE RECOVERY

REDESIGN

A Potential Application:

Transforming Mobility in Cities for Better Health and Air Quality

Responding to the crisis

- ◆ Promote **teleworking, distance learning, non-motorised** transport
- ◆ **Face masks & social distancing**
- ◆ Support vulnerable **communities**

Recovering from COVID pandemic

- ◆ Economic **stimulus** to promote e-mobility, micro-mobility etc.
- ◆ Build **sustainable transport infrastructure** and implement policies to induce **behaviour change**

Redesigning city transport for greater resilience

- ◆ Reconsider **urban, transport** and **spatial** planning
- ◆ Develop urban **transport resilience plans**
- ◆ Address the **needs of vulnerable communities**
- ◆ Enhance **coordination** across agencies



Light Rail Transit (LRT) in Toyama City
(©Toyama City)

Platform for Redesign 2020



Online Platform on Sustainable and Resilient Recovery from COVID-19

**PLATFORM
for REDESIGN 2020**

Online Platform on Sustainable
and Resilient Recovery from COVID-19

環境省
Ministry of the Environment

United Nations
Climate Change

IGES
Institute for Global
Environmental Strategies

Platform for Redesign 2020

- ◆ Showcase **response, recovery, and redesign** efforts at the national level to overcome COVID-19 and environmental crises
- ◆ Non-state stakeholder participation, including **local governments (ICLEI, C40), businesses, civil society, youth, international organisations, and academia**

Online Ministerial Meeting (3 September 2020)

- ◆ Chaired by Japan's Environment Minister Koizumi
- ◆ Sessions 1 & 2: **Ministers** and other **high-level officials** participated
- ◆ Session 3: **non-state actors** participated (including Ms. Kobie Brand of ICLEI Africa)

Led by the **Ministry of the Environment Japan**, supported by the **UNFCCC**, and managed by the Institute for Global Environmental Strategies (**IGES**)

Platform2020redesign.org

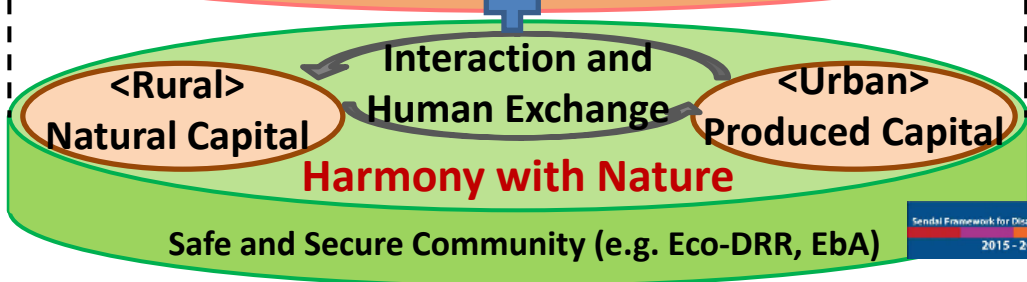
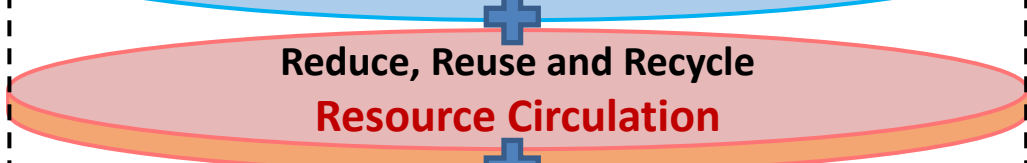
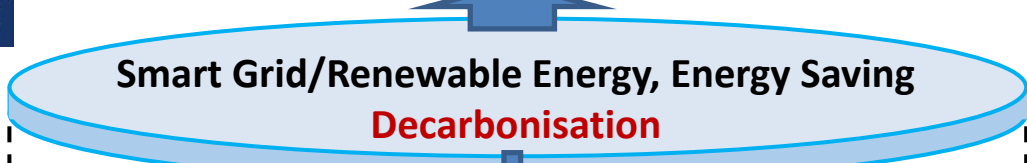


Approach to Redesign in the post-COVID era Circulating and Ecological Sphere (CES)

Concept to promote carbon and resource circulation at optimal scales

Decade of Action

→ Voluntary
Local Review
(VLR)



United Nations
Framework Convention on
Climate Change
Race to Zero
→ Zero Carbon City

UNEP International
Resource
Panel
Circular Economy
→ 3R

**Convention on
Biological Diversity**
Post Aichi Target
→ LBSAPs

Sendai Framework for Disaster Risk Reduction
2015 - 2030

Human-Centric and Localised Digital Transformation (DX) (IGES, 2020)

CES in Toyama City in the post-COVID era: A Compact and Connected City in Harmony with Nature

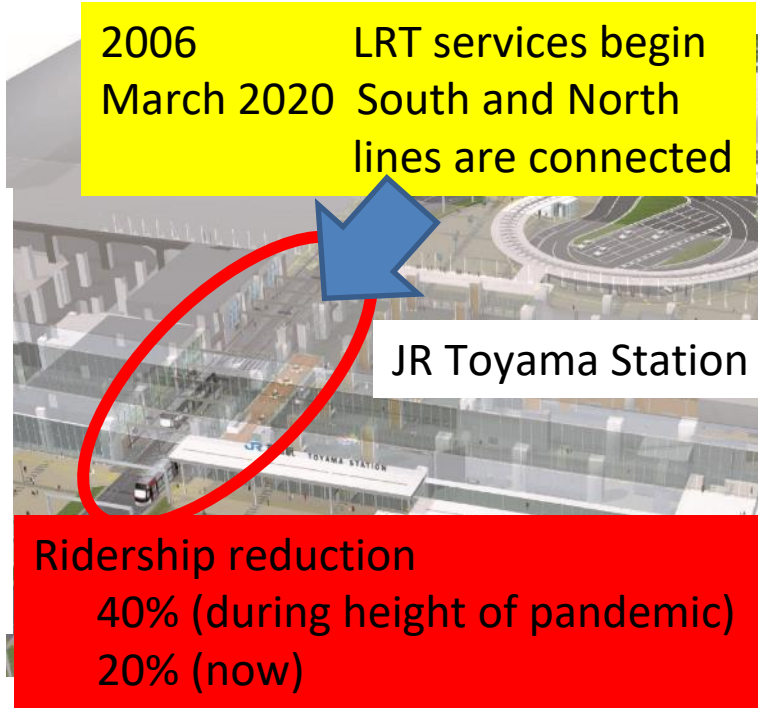


Energy and urban infrastructure

- ◆ LRT x DX (e.g. sensor to **monitor transport flows**)
- ◆ Urban structure for decarbonised cities (e.g. development of hub of **energy management**)



2006 LRT services begin
March 2020 South and North lines are connected



JR Toyama Station

Ridership reduction
40% (during height of pandemic)
20% (now)

Life and Nature

- ◆ **Urban development** meeting the needs of the **elderly** (e.g. living in the downtown area & alongside public transportation)
- ◆ Enhancement of **human health** by strengthening **resilience** to risks such as infectious disease (e.g. park management)
- ◆ Enhancement of **people's motivation** in life (e.g. increase of civic pride)



Realising CES by making cities **more compact**
in physical space & smarter in cyber-space

Thank you for your kind attention.