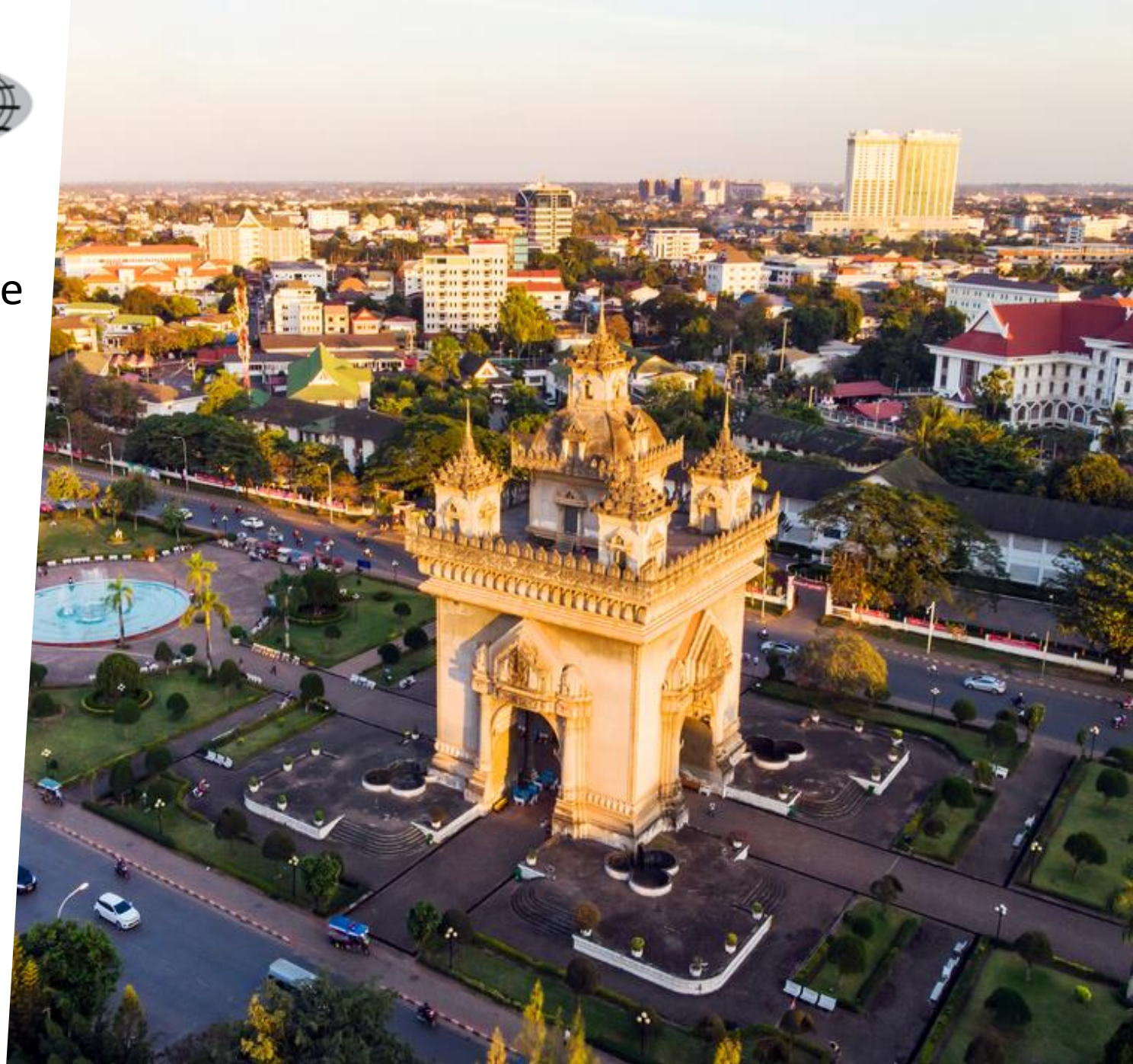


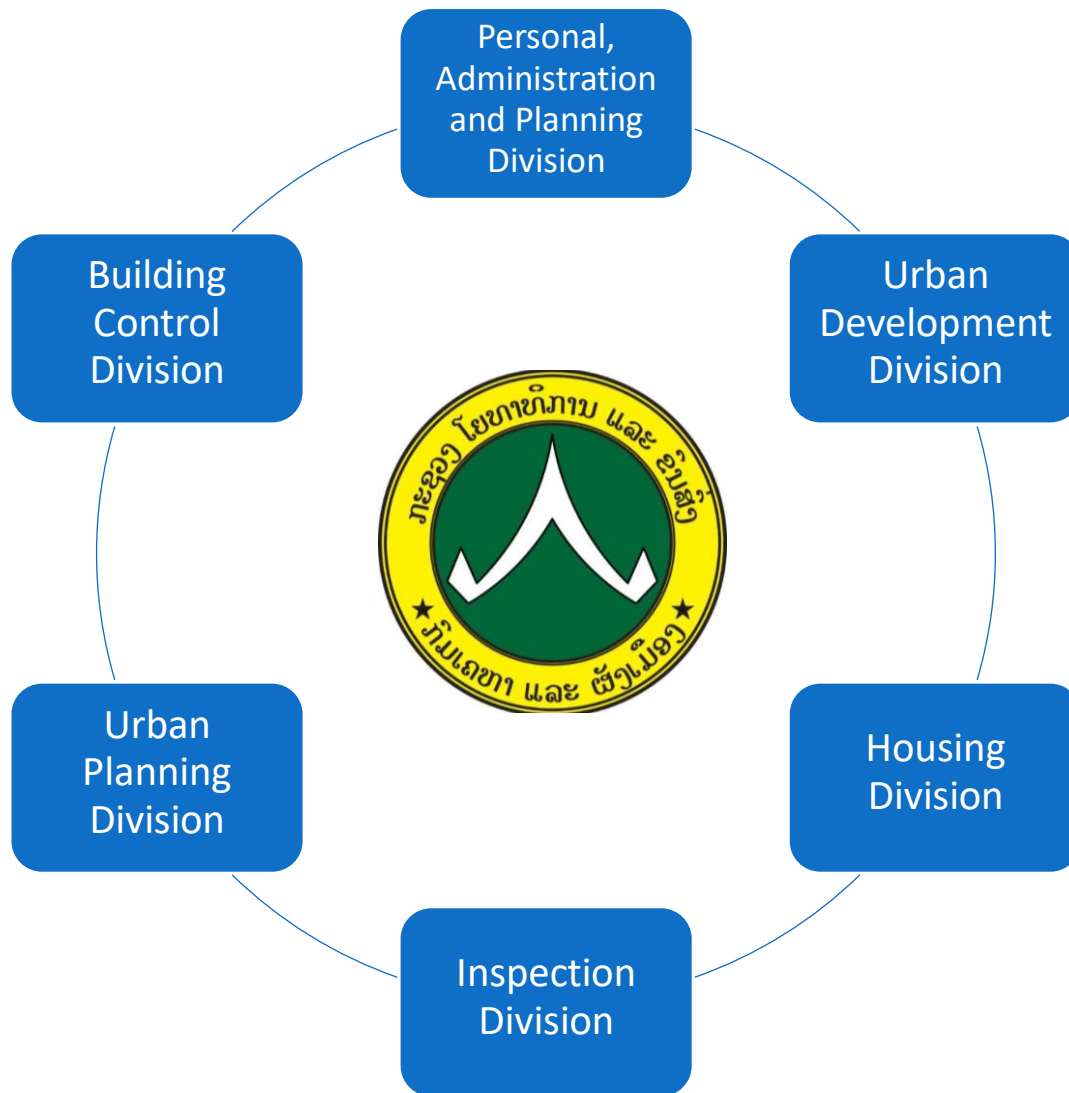
Initiatives of Smart Cities to Promote
Green Transformation “GX”

Regional and National Sustainability Initiatives of Smart City

Souksavanh HANEPHOM
Smart City Expert
Department of Housing and Urban Planning,
MPWT



Organization as MPWT/DHUP



Challenges & Opportunities for Housing and Urban Development

Challenges

- Environmental degradation
- Impacts of rapid urbanization
- Inadequate infrastructure & limited connectivity
- Basic services demands

Opportunities

- Increased climate resilience & environmental sustainability
- Improved urban planning & resource efficiency
- Increased quality of life & sustainable urban development



Inclusive and Sustainable Future

- **What kind of urban transformation do we need?**

- ➔ Can the digital innovation & technology can improve city operation efficiency and quality of life of urban people by utilizing advanced IT technology.



- **Enabling Cities**

- Aiming at...

1. Appropriate Utilization of Digital Technology
2. Smart Governance
3. Urban Management by GIS Platform



Greater Mekong Subregion Project Working with DHUP, MPWT

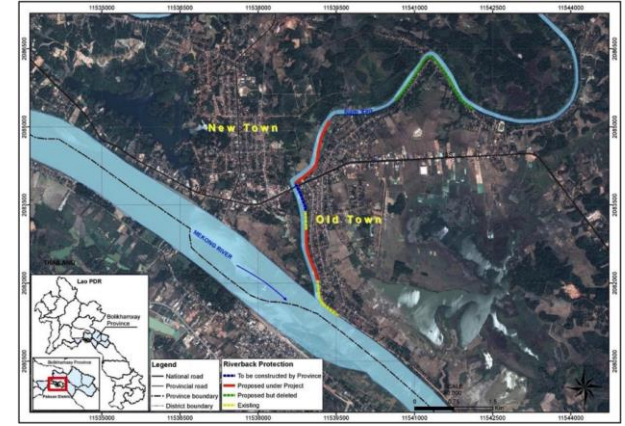
Second Greater Mekong Subregion (GMS2)



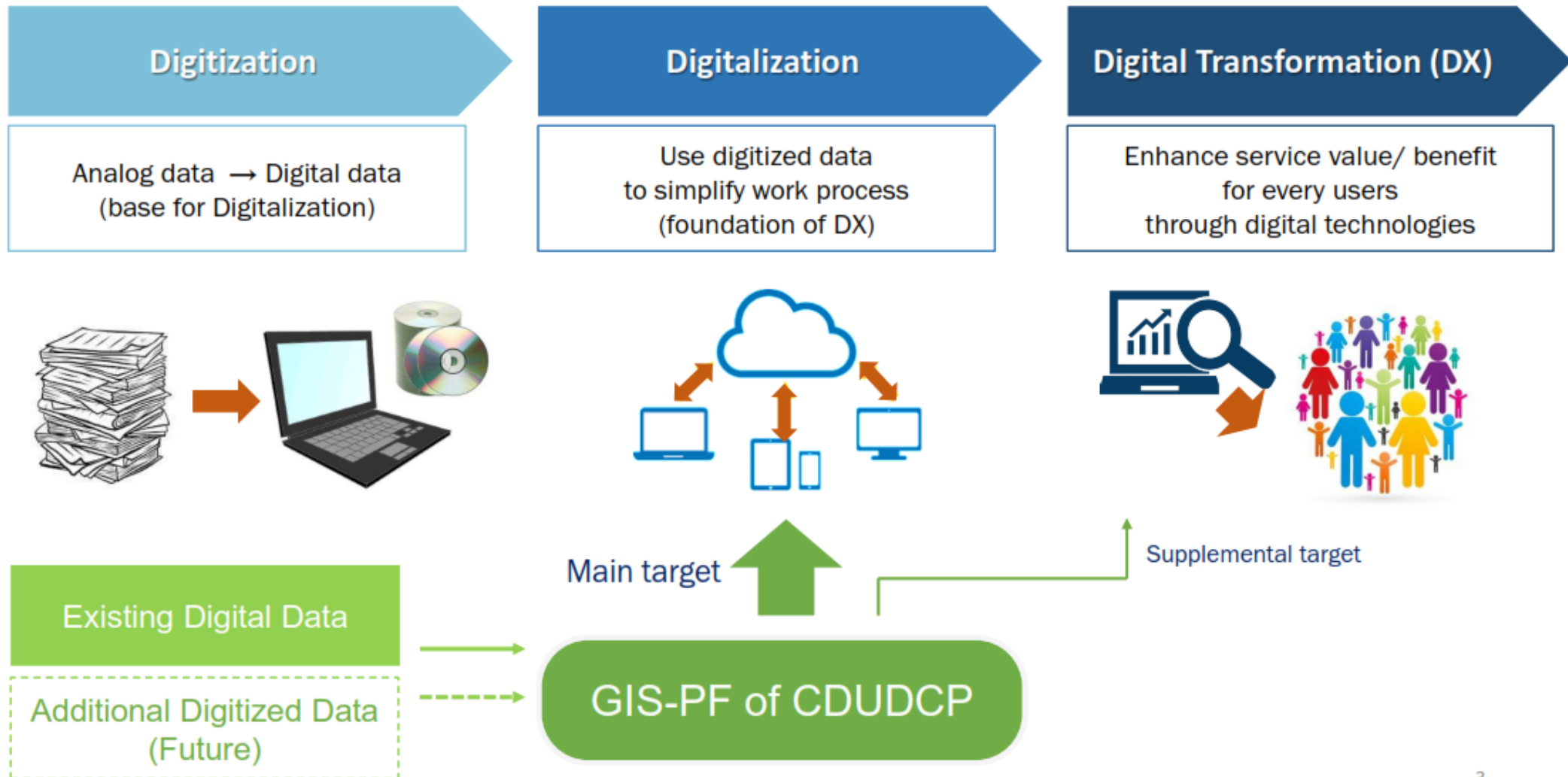
Fourth GMS Corridor Towns Development Project (GMS4)

The Greater Mekong Subregion is working to improve the quality of life and economic vibrancy of its cities through the development of national strategies and projects that incorporate global best practices into the subregion's urban development. This work has included the first and second Corridor Towns Development Project, which is developing competitive and environmentally friendly cities along vital economic arteries in the subregion. Cross-border economic zones are also being developed.

“Vibrant, livable cities and towns play an important role in the development of industry and services, particularly manufacturing, agrobusiness, and tourism,”



GIS Platform “VirGo” under the CDUDCP Project With JICA



Objective of GIS Platform

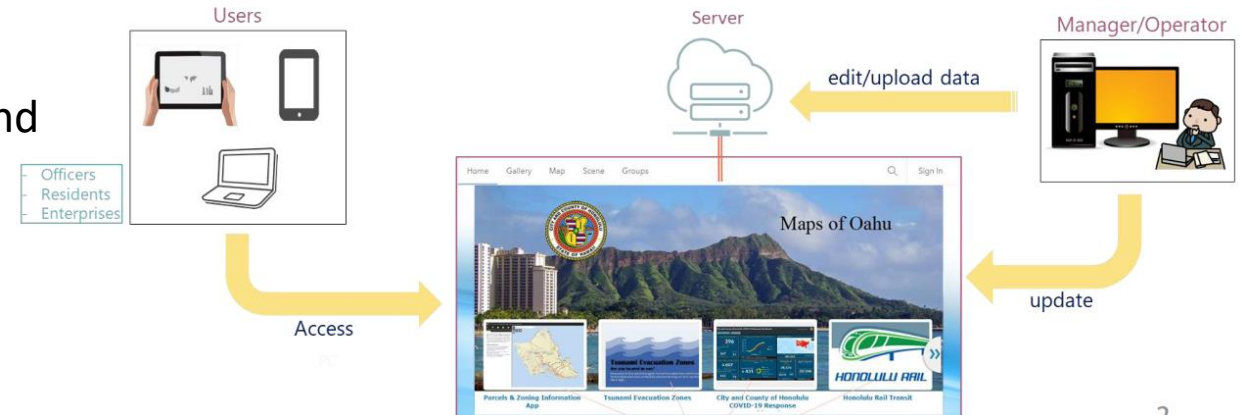
'GIS Platform' will enable easy sharing of GIS data and analysis results, so that stakeholders can refer to the data and discuss urban policies based on data.

Improvement of work processes before/after introducing GIS platform

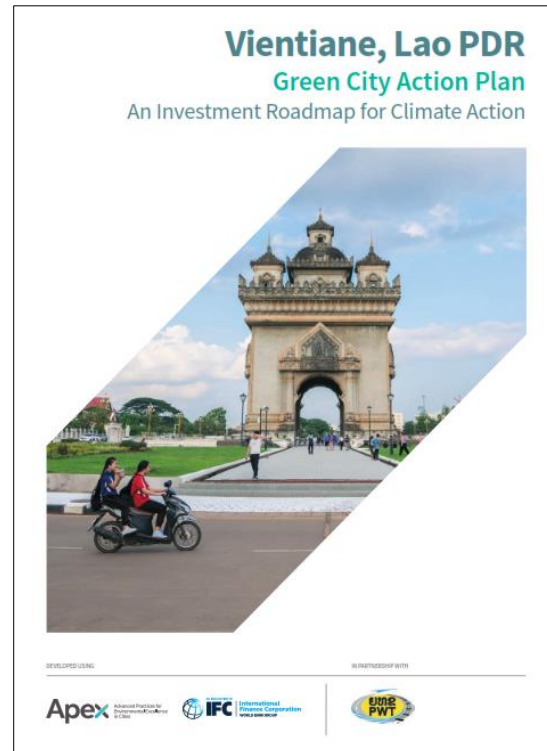
	Before	After
Public Sector	<ul style="list-style-type: none"> • Inconsistency of GIS data • Unclearness of urban issues 	<ul style="list-style-type: none"> • Integrated database to view and share various urban information • Visualized information to solve issues easier
Private Sector	<ul style="list-style-type: none"> • Inconvenient data access • Incomprehension of urban system 	<ul style="list-style-type: none"> • Easy accessibility to the latest data and Maps • Comprehensible service for building permission

Concepts of GIS Platform

- Formulated as a portal site to share maps, documents and activity reports related to urban control and promotion.
- Data is stored in common server.
- Has expandability to add contents.



Green City Action Plan for Vientiane Capital City using IFC Advanced Practices for Environmental Excellence in Cities (APEX) tool



IFC's APEX tool: An Investment Planning Tool for Cities

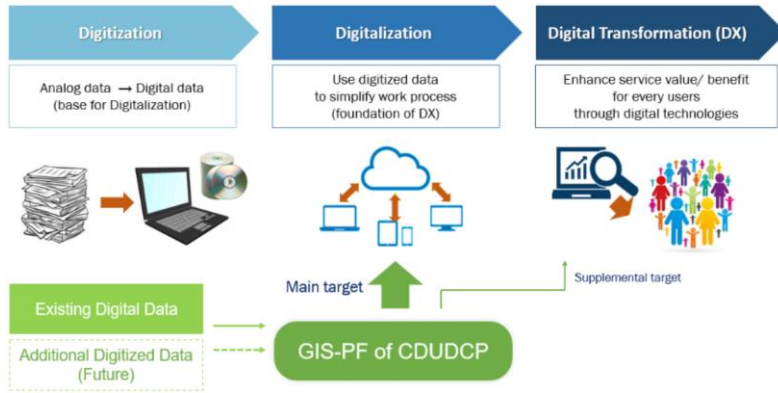
An innovation of IFC, APEX tool informs the most impactful actions in cities to reduce GHG emissions, improve energy efficiency, waste management, water security, higher use of public transportation.

APEX provides an easy-to-use, affordable, and standardised investment planning tool for cities

-  Develop strategies for the long-term (e.g., Climate Actions Plans)
-  Identify investments suitable for green financing
-  Assess, compare and track the performance of the cities



Practical Urban Development



The GIS Platform

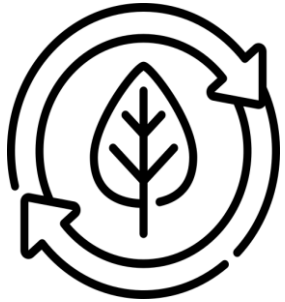
Priorities for Action			
There is a need for focused action within and across sectors by States at local, national, regional and global levels in the following four priority areas.			
<p>Priority 1 Understanding disaster risk</p> <p>Disaster risk management needs to be based on an understanding of disaster risk in all its dimensions of vulnerability, capacity, exposure of persons and assets, hazard characteristics and the environment</p>	<p>Priority 2 Strengthening disaster risk governance to manage disaster risk</p> <p>Disaster risk governance at the national, regional and global levels is vital to the management of disaster risk reduction in all sectors and ensuring the coherence of national and local frameworks of laws, regulations and public policies that, by defining roles and responsibilities, guide, encourage and incentivize the public and private sectors to take action and address disaster risk</p>	<p>Priority 3 Investing in disaster risk reduction for resilience</p> <p>Public and private investment in disaster risk prevention and reduction through structural and non-structural measures are essential to enhance the economic, social, health and cultural resilience of persons, communities, countries and their assets, as well as the environment. These can be drivers of innovation, growth and job creation. Such measures are cost-effective and instrumental to save lives, prevent and reduce losses and ensure effective recovery and rehabilitation</p>	<p>Priority 4 Enhancing disaster preparedness for effective response, and to «Build Back Better» in recovery, rehabilitation and reconstruction</p> <p>Experience indicates that disaster preparedness needs to be strengthened for more effective response and ensure capacities are in place for effective recovery. Disasters have also demonstrated that the recovery, rehabilitation and reconstruction phase, which needs to be prepared ahead of the disaster, is an opportunity to «Build Back Better» through integrating disaster risk reduction measures. Women and persons with disabilities should publicly lead and promote gender-equitable and universally accessible approaches during the response and reconstruction phases</p>
Guiding Principles			
Primary responsibility of States to prevent and reduce disaster risk, including through cooperation	Shared responsibility between central Government and national authorities, sectors and stakeholders as appropriate to national circumstances	Protection of persons and their assets while promoting and protecting all human rights including the right to development	Engagement from all of society
Coherence of disaster risk reduction and sustainable development policies, plans, practices and mechanisms, across different sectors	Accounting of local and specific characteristics of disaster risks when determining measures to reduce risk	Addressing underlying risk factors cost-effectively through investment versus relying primarily on post-disaster response and recovery	«Build Back Better» for preventing the creation of, and reducing existing, disaster risk
			The quality of global partnership and international cooperation to be effective, meaningful and strong
			Support from developed countries and partners to developing countries to be tailored according to needs and priorities as identified by them
			Decision-making to be inclusive and risk-informed while using a multi-hazard approach
			Empowerment of local authorities and communities through resources, incentives and decision-making responsibilities as appropriate
			Full engagement of all State institutions of an executive and legislative nature at national and local levels

Evaluation of the implementation of the city plan through the use of analytical tools



The Urban Development Strategies to the year 2030.

EXPECTED OUTCOMES FOR HOUSING AND URBAN DEVELOPMENT STRATEGY



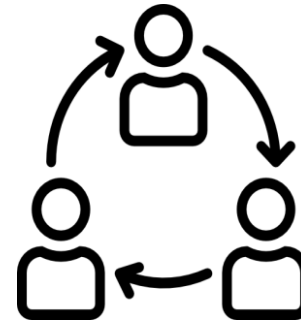
**Sustainable,
livable, inclusive
and resilient cities**

To meet the need of residents while harnessing the power of technology to improve the delivery of services and address urban, social and economic challenges



**Enhanced quality
of life for citizens**

By promoting economic growth, reducing carbon footprint, encouraging citizen participation, and developing a culture of innovation and entrepreneurship



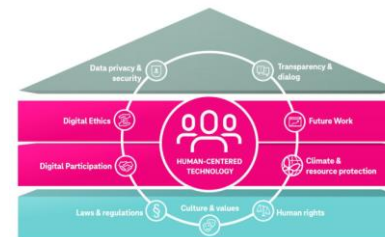
**Enhanced capacity,
decision-making,
and efficiency of
government**

To adopt smart cities strategies and implement projects that are inclusive, sustainable, and centered on people's needs

Align with the mandate of MPWT & focus on leveraging technology and digital solutions to support people-centered sustainable urban development, improved service delivery & climate action in cities.

Ways Forward

- Develop integrated development strategy and policies that focus on the use of technology to improve the quality of life, robust economy and sustainable environment;
- Seek financial and technical support for stocktaking, studying and planning of smart initiatives/projects as well as investing in hard and soft infrastructure;
- Identify internal framework of responsibilities of relevant spatial planning tasks;
- Cooperation with all sectors, ASEAN member states and external partners.



THANK YOU