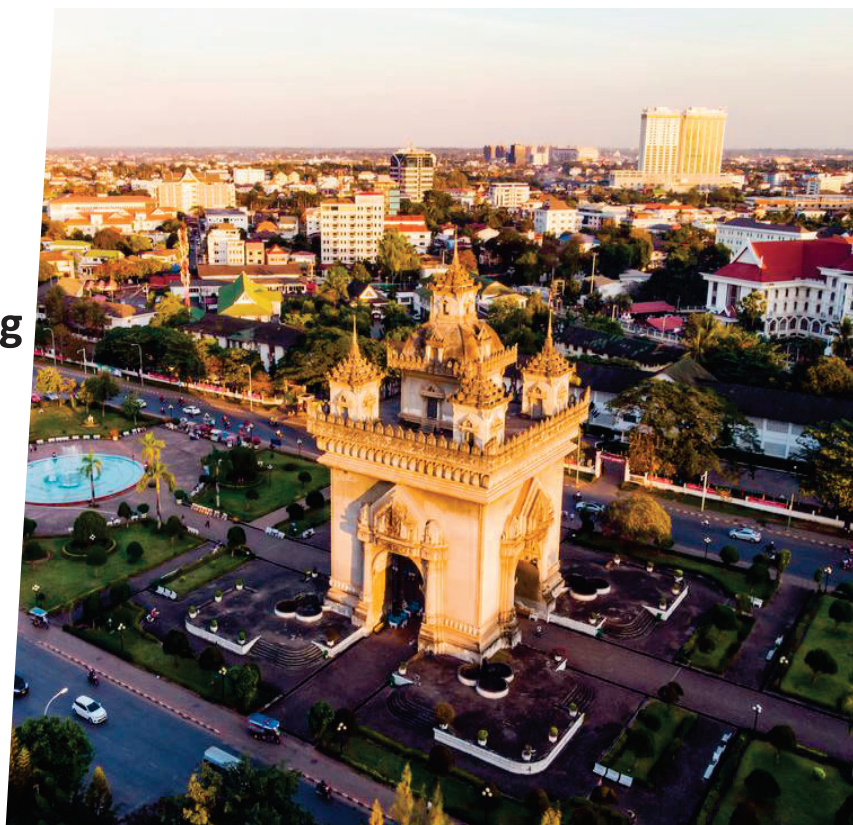




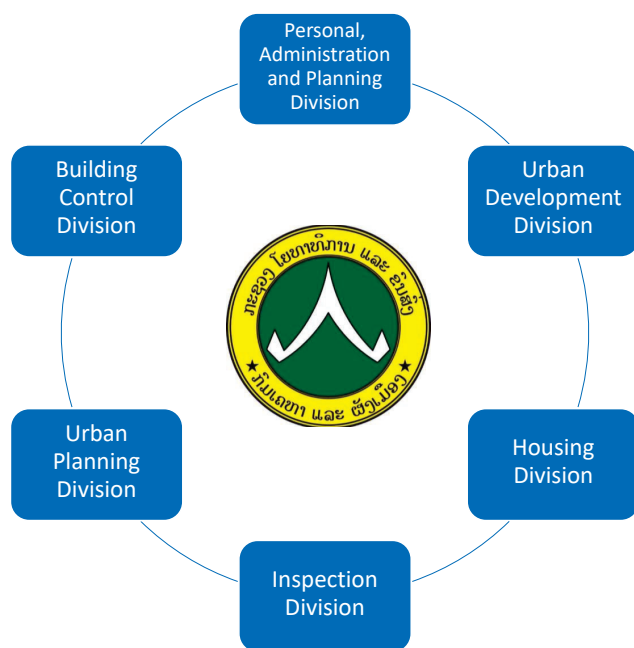
National Sustainability Initiatives of Urban/Housing Development

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Ministry of Public Works and Transport, Laos



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

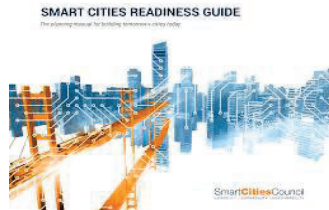
- Aiming at...
- 1. Appropriate Utilization of Digital Technology
- 2. Smart Governance
- 3. Urban Management by GIS Platform



WHY SMART CITIES AND INFRASTRUCTURE?

Cities are the backbone of socio-economic development with continuous urbanization, cities are becoming larger and larger in terms of physical size and population.

The expansion and population growth of cities have brought about challenges for government to efficiently manage public infrastructure and maintain/improve the cities livability. Common urban problems that are difficult to deal with include: traffic congestion, environmental pollution, affordable housing, water and sanitation, safety and security, climate changes and so on.



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

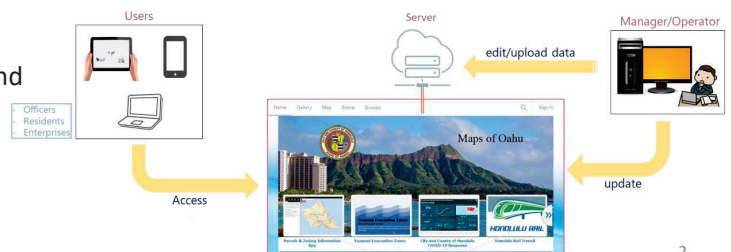
‘GIS Platform’ will enable easy sharing of GIS data and analysis results, so that stakeholders can refer to the data and discuss urban policies based on data.

Improvement of work processes before/after introducing GIS platform

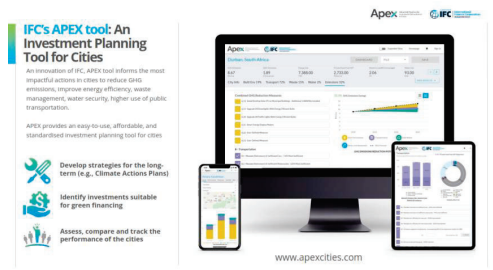
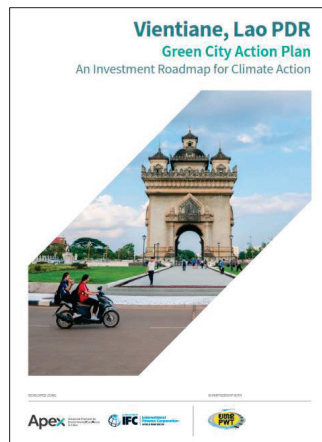
	Before	After
Public Sector	<ul style="list-style-type: none"> Inconsistency of GIS data Unclearness of urban issues 	<ul style="list-style-type: none"> Integrated database to view and share various urban information Visualized information to solve issues easier
Private Sector	<ul style="list-style-type: 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

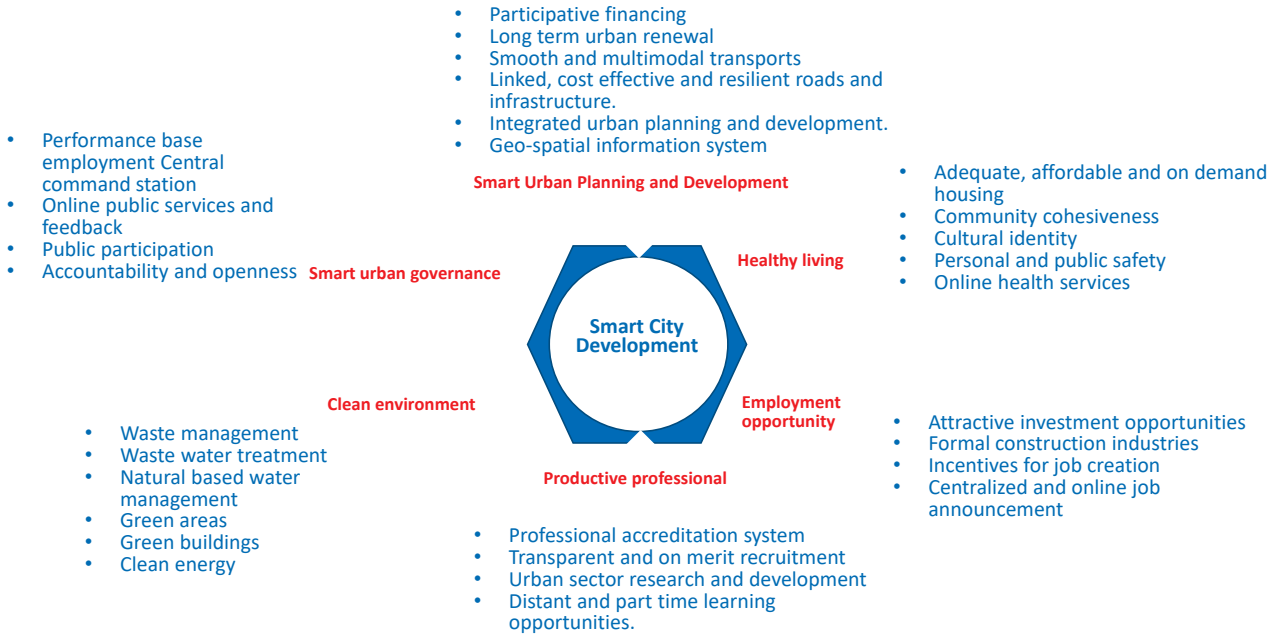
- Formulated as a portal site to share maps, documents and activity reports related to urban control and promotion.
- Data is stored in common server.
- Has expandability to add contents.



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



Development Actions



EXPECTED OUTCOMES FOR HOUSING AND URBAN DEVELOPMENT STRATEGY



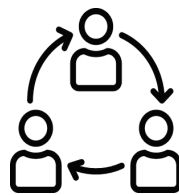
Sustainable, livable, inclusive and resilient cities

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



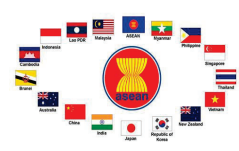
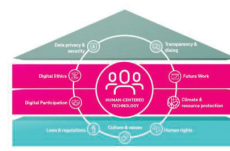
Enhanced capacity, decision-making, and efficiency of government

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