Smart City Integration for Building Urban Resilience in Lao PDR

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Urbanization, smart city and resilience

Urbanization challenges



Smart Technology for Resilience



Smart City Concepts



Resilience in Smart City Planning

Some facts about Laos















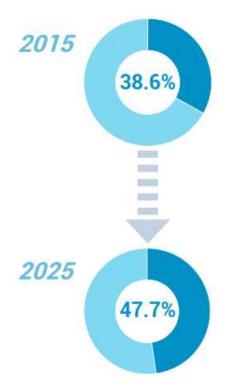




IN LABOR FORCE⁵

Source: UN-HABITAT, Country Report 2023, Laos



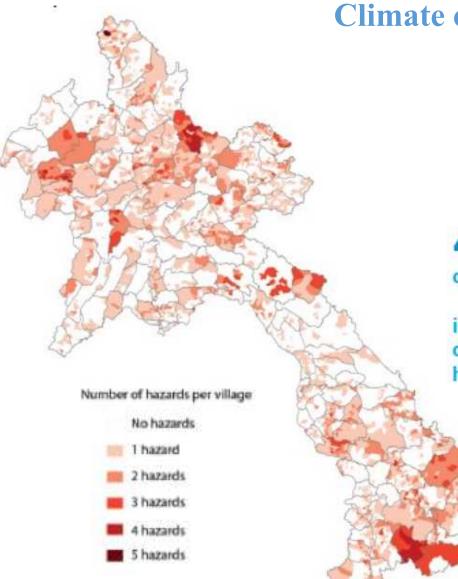


Urbanization in Laos

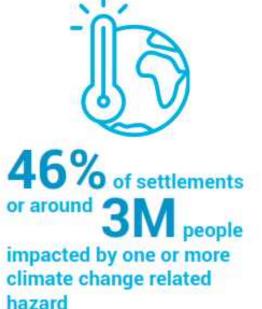
	Rate of change of the urban pop.(%)			Level of urbanization (%)			
	1995-2005	2005-2015	1995-2015	1995	2005	2015	2025
South-Eastern Asia	3.21	2.63	2.92	34.6	41.3	47.6	53.3
Brunei Darussalam	2.89	2.02	2.45	68.6	73.5	77.2	79.7
Cambodia	3.18	2.38	2.78	17.3	19.2	20.7	23.6
Indonesia	3.87	2.87	3.37	36.1	45.9	53.7	60.3
Lao People's Democratic Republic	6.28	5.36	5.82	17.4	27.4	38.6	47.7
Malaysia	4.00	2.86	3.43	55.7	66.6	74.7	80.1
Myanmar	2.27	2.41	2.34.	25.5	28.9	34.1	39.8
Philippines	1.74	1.22	1.48	48.3	46.6	44.4	44.9
Singapore	2.55	2.23	2.39	100.0	100.0	100.0	100.0
Thailand	3.20	3.22	3.21	30.3	37.5	50.4	60.4
Timor-Leste	2.94	3.83	3.38	22.5	26.3	32.8	38.6
Viet Nam	2.18	3.03	3.10	22.2	27.3	33.6	39.9

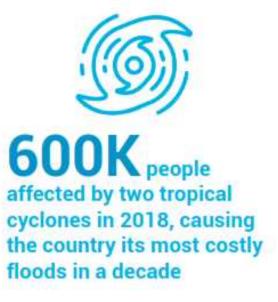
UN-Habitat, World Cities Report 2016: Urbanization and Development. Emerging Futures, Annex I.

Source: UN-HABITAT, Country Report 2023, Laos



Climate change impacts in Laos





Source: UN-HABITAT, Country Report 2023, Laos

Common Urban Issues Related to Resilience and Vulnerability





Urban Sprawl





Urban Flood



Fire Hazard



Pollution



Solid Waste

Our focuses







Green Growth: Policies and mechanisms guidin g green growth and sustainable development hav e been a focal point. The National Urban Develop ment Strategy for 2030 is being updated to incorp orate trends such as climate resilience and the sm art city concept.

Inclusive Urban Management: Inclusive Urban Management Platform has been established The Lao National Urban Forum has been launched and rol ling to provide a stage for all stakeholders to coll aborate, shaping effective future urban and town development at all level **Capitalizing on Smart City Concept**: Recogn izing the potential of digital disruption, we are exploring smart city concepts, utilizing smart s olutions to address urban challenges. Laos' firs t smart city development strategy is being deve loped, paving the way for efficient city plannin g and management, ensuring citizen livability a nd improved standards of living.

Data-driven decision making: Platforms pro moting evidence-based and digitalization.

Strategic Urban Investments:

Significant investments have been made in urban development initiatives, particularly in cities and districts with high economic and social impact along vital economic corridors. These investments have significantly contributed to socioeconomic growth and resilient urbanization. Way forwards for building urban resilience in Laos

- 1. Spatial and Land Use Planning
- 2. Urban Risk Mapping
- **3. City Resilience Index Platform**
- 4. Urban Infrastructure Database
- 5. Develop Mobile Application for Urban Disaster Warning and Urban Mobility
- 6. Urban Resilience Education Through an Online Portal
- 7. Nature Based Solution + Technology for Urban Environmental Management