



# 2<sup>nd</sup> ASEAN-Japan Smart Cities Network High Level Meeting

hosted by MLIT of Japan with the support of the JAIF

## Smart City Initiatives in Nay Pyi Taw

Presented by

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**Director of Urban Planning and GIS Team**

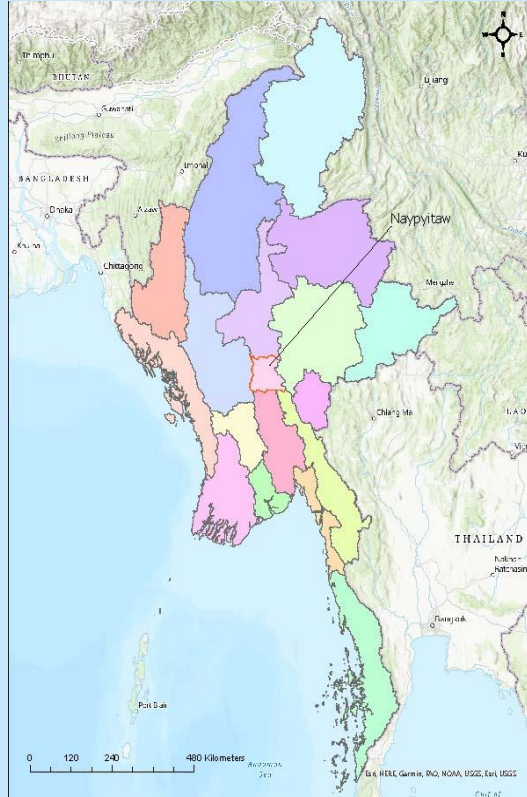
**Nay Pyi Taw Development Committee**

**Nay Pyi Taw, Myanmar**

16<sup>th</sup> December 2020



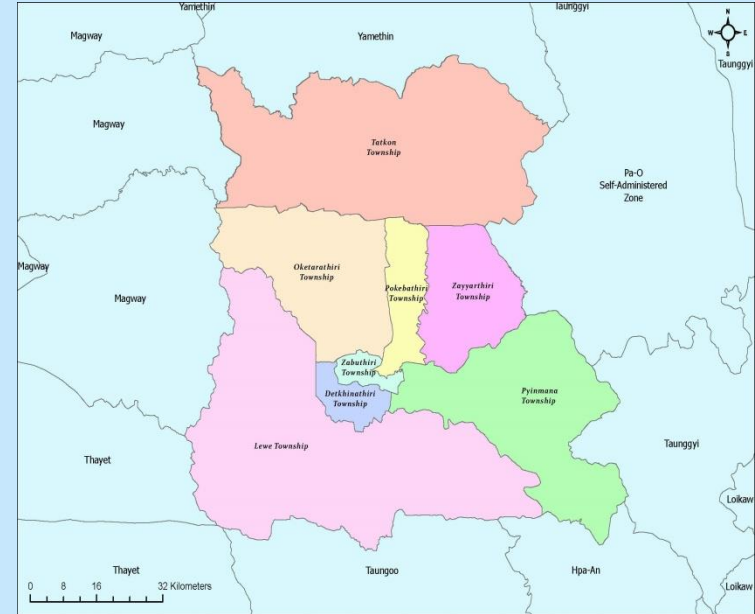
## The Republic of the Union of Myanmar



## The Capital City of Myanmar Nay Pyi Taw

### Emerging Nay Pyi Taw

- Planning - 2001
- Implementation - 2003-2005 (Phase-1)  
- 2005-2008 (Phase-2)
- Administration - 2005 Dec (Moved to Capital City)
- Area - 7057 km<sup>2</sup>
- Population - 1.16 Million







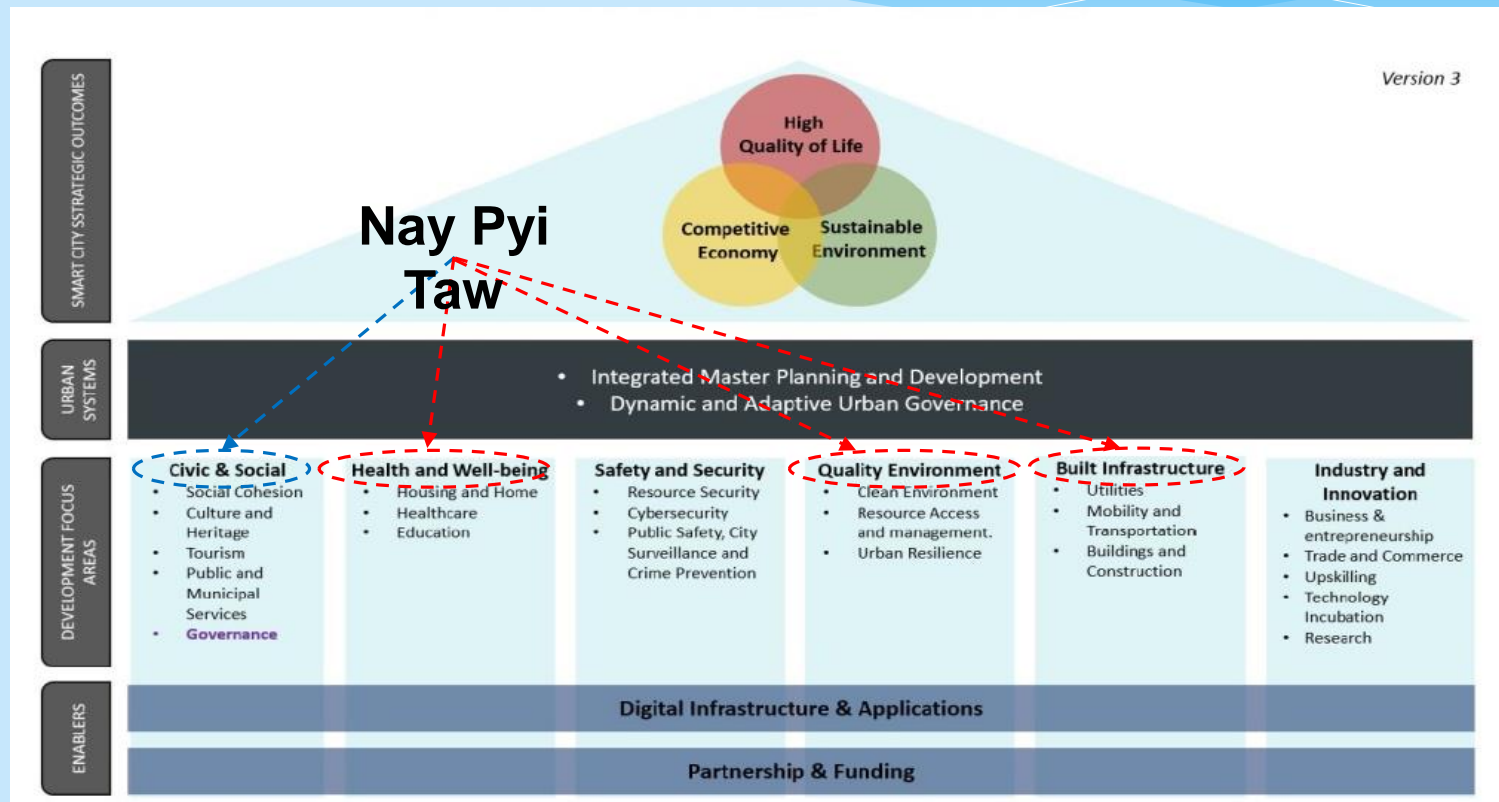
# Visions of Nay Pyi Taw up to 2040

- To be climate change resilient city
- To be environmentally sustainable city
- To be green and livable city
- To be the center of knowledge hub
- To be international aviation transit, cargo and logistics hub





# ASEAN Smart Cities Framework





# Project – 1

## Affordable Housing

- Local government had been constructed 60 numbers of housings for various ranks government employees in the last fiscal year
- Ministry of Construction also constructed 420 units in 7 buildings of rental housings for public
- Our committee have been constructing 3,000 units for retired government employees and hire purchase with the short-term and long-term housing loan scheme



Nay Pyi Taw Development  
Committee



# Housing for Government Employees with Various Ranks





# Sales Housing for Retired Government Employees







# Rental Housing for Public





## Project 2

# Comprehensive University

- Initiative to be Education Hub
- Existing 3 Universities: University of Forestry, University of Veterinary Science, University of Agriculture
- Ministry of Education has planned to implement 2 Comprehensive Universities
  - National Comprehensive University
  - International Comprehensive University
- ICT Park, Computer University, Medicine University and other 3 universities are under negotiating process



## Project 3

# Smart Street Lighting based on IoT Platform

- As for the pilot project with ScNex company, we are implementing the installation of LED smart street lighting with environmental sensors along 2km length of main road of Zabuthiri town
- We will submit to the central government with the results of this pilot project and then we will implement the whole smart street lighting project for our city



## Project 4 Safe City

- Smart monitoring system
- Implementing a surveillance system with 315 CCTV cameras installation
- Conducted by Nay Pyi Taw Council, Local Government
- CCTV security cameras are installed at the public areas: markets, traffic lights and lampposts
- Monitored road condition and situations such as accidents, crimes, traffic flows
- Ensure the safe and secure environment
- Make a livable city for inhabitants





# Smart City Projects in Nay Pyi Taw 2019 to 2020

- Affordable Housing Project
- Comprehensive University Project
- Smart Street Lighting Project based on IoT Platform
- Safe City Project



# Current Situation of Smart City Projects

- Even it is difficult to implement all projects successfully due to COVID-19 pandemic
- Among 4 projects, Affordable Housing Project, Smart Street Lighting Project based on IoT Platform and Safe City Project are under running conditions
- With regard to Comprehensive University Project, the negotiation between proposed international universities and Ministry of Education has been still pending



# Main Challenges in the Initiative of Smart City

- Technology challenges with coverage and capacity
- Technical Supports
- Financial Limitation
- Public entities involvement
- Less collaboration and coordination between internal departments
- Not too much trust in the smart city solutions by inhabitants



# Future Smart City Plans for Nay Pyi Taw

- Extension of water supply
- E-payment system on public services
- e-Bus system
- Education hub
- Transit oriented development
- Tourism industry
- Assets management for infrastructure





**Thank you for your kind attention!**

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