Government Data Center (GDC) Modernization

1. Adoption of cloud technology
2. Maturity of cloud computing services
3. Investments in security technologies
4. Cross-agency infrastructure sharing and shared services
5. Cost optimization
6. Handling of high security data
Thai GDCM is a strategic initiative to help the agency data infrastructure align better with Thailand Digital Economy

**THAILAND OPPORTUNITY**
- 70 mn population
- Strong internal demand for data center
- Data center requirements to grow 30% YOY till 2020

**DIGITAL THAILAND**
- Digital technology to develop infrastructure, innovation, data capability, human capital, and other resources
- 6 Strategies to implement goals: Build high-capacity digital infrastructure, Boost economy with digital technology, Create equitable society through digital technology, Transform into digital government, Develop digital workforce, and Build confidence in use of digital technology

**DATA CENTER INFRASTRUCTURE**
- Data center infrastructure an important component of Digital Economy
- A modern data center infrastructure is the most crucial element to accommodate growing demand for data, services, quality and digital economy
GDCM issues

- Data Security based decision making
- Efficient operations
- Multiple standards and adherence
- Aging infrastructure
- High volume and growth of data
- Data Availability at all times
- Hiring and retaining right employees
- Outsourcing decisions
GDCM Strategies

1. Alignment with Digital Economy and Prime Minister’s vision for Government Infrastructure and Modernization

2. Utilizes the key improvements in technology via standards and SLA adoption

3. Consideration of skillsets, people development, human capital availability, and technology transfer

4. Accountability for agencies and ministries to realize overall objectives.
Future GDC Models

(A) Agency Own Data Centers
- Includes current infrastructure setup
- Includes shared infrastructure optimization

(B) Ministry Data Centers
- Includes current infrastructure setup broadened to ministry agencies

(C) Cross Agency Data Centers
- Includes current infrastructure setup broadened to multiple agencies across ministries and independent agencies

(D) 3rd Party Colocation/Physical Hosting
- Includes current setup with better designed SLAs and requirements

(E) 3rd Party Services
- Includes service outsourcing to 3rd party for IaaS, PaaS, SaaS cloud

(F) G Services
- Includes service outsourcing to government services for colocation; IaaS, PaaS and SaaS cloud

Note: (E) 3rd party services does not include 3rd party colocation, which is captured as a separate service that’s being also used currently as (D)
Summary

- Thailand needs more data centers in years to come due to increase in data, population and economic growth.
- Thailand DCM needs strategies to make the transformation agile, secured, cost effective and environmental friendly.
- 6 available models to support GDC infrastructure modernization: Agency Own Data Center, Ministry Data Center, Cross Agency Data Center, 3rd Party Colocation/Physical Hosting, 3rd Party Services and G-Services depending on the types of data (public, important, national security)
Thank you

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