Country Perspectives on Emerging ICT Capacity Building Needs

31st August 2022
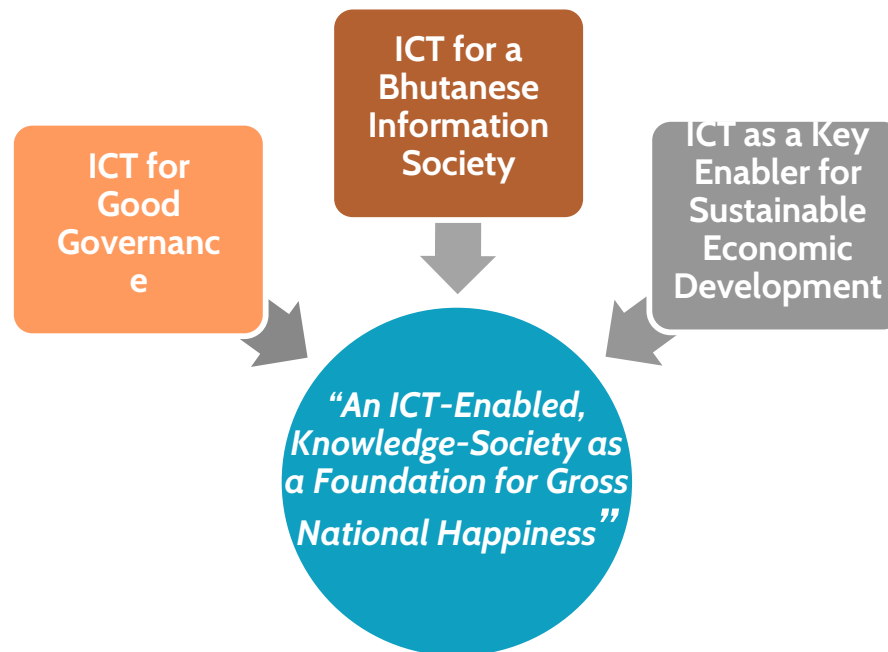
Department of Information Technology and Telecom
Ministry of Information and Communications
Royal Government of Bhutan
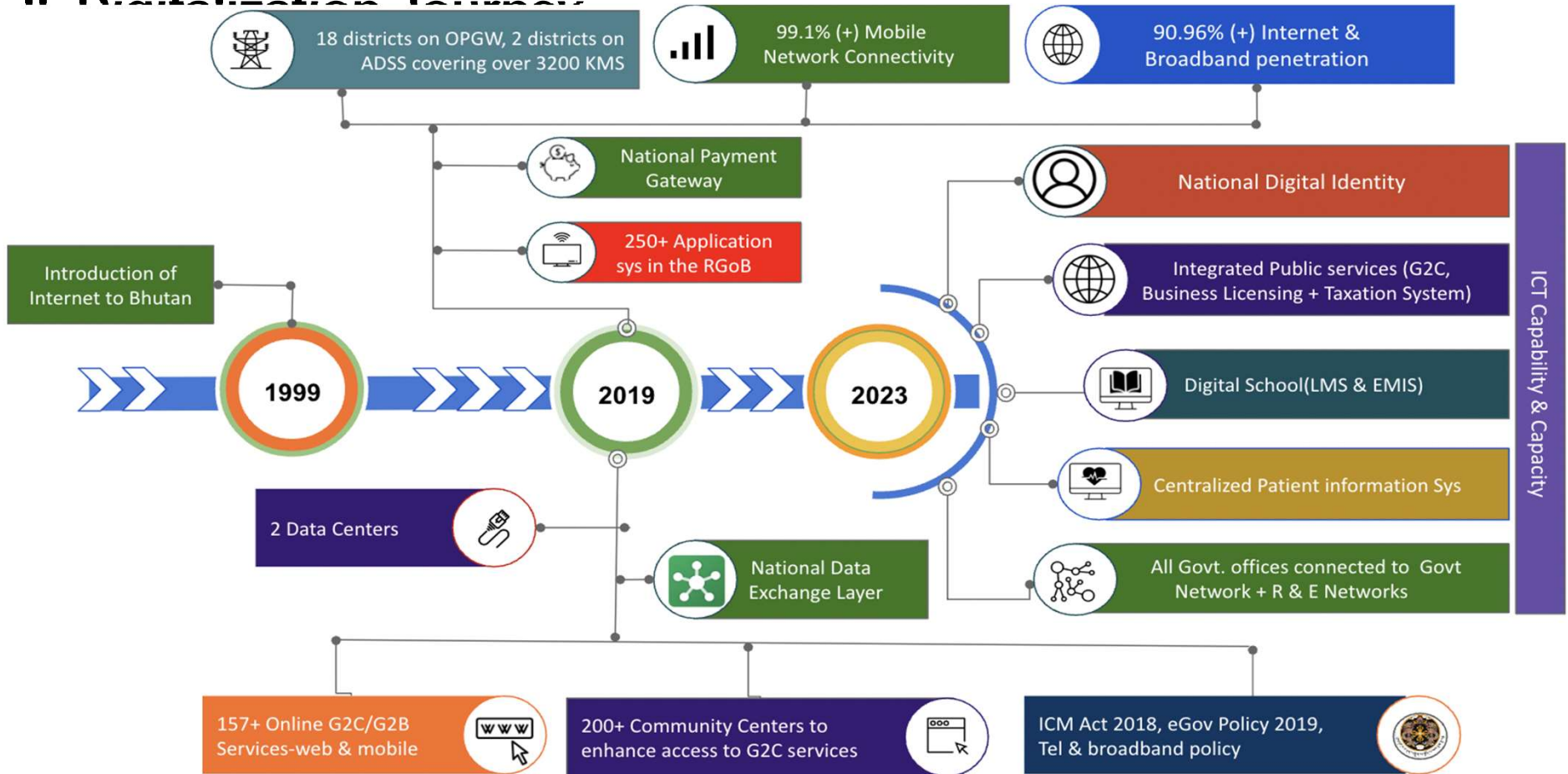
Outline

I. ICT Vision and desired outcomes

II. Bhutan's Digitalization journey

III. Emerging capacity building needs

I. On-going capacity-building programmes

I. Support and collaboration

Ⅰ. ICT Vision and Desired Outcome

II. Digitalization Journey

18 districts on OPGW, 2 districts on ADSS covering over 3200 KMS

99.1% (+) Mobile Network Connectivity

90.96% (+) Internet & Broadband penetration

National Payment Gateway

250+ Application sys in the RGoB

National Digital Identity

Introduction of Internet to Bhutan

Integrated Public services (G2C, Business Licensing + Taxation System)

Digital School(LMS & EMIS)

1999

2019

2023

Centralized Patient information Sys

ICT Capability & Capacity

2 Data Centers

National Data Exchange Layer

All Govt. offices connected to Govt Network + R & E Networks

157+ Online G2C/G2B Services-web & mobile

200+ Community Centers to enhance access to G2C services

ICM Act 2018, eGov Policy 2019, Tel & broadband policy

Emerging capacity building needs

- Emerging technology (AI, MLops, IOT, Blockchain)
- Cyber security (Cloud security, Digital forensic, malware analysis, Mobile security)
- Application (DevOps, Microservices)
- Network (Network essential, CCNA, CCNP, fiber tech)
- System (Virtualization, containerization, storage, backup & replication)
- Digital literacy training for the citizen
  - Enhance digital skill
  - ICT adoption

On-going capacity-building programmes for policymakers and civil servants

ICT Professionals:
- Hybrid model training
- Provided with online learning platform for 2 years
- Skill Assessment of ICT professionals:

Non IT Civil servants and policymakers
- Digital literacy training - enhanced digital skills of civil servants for ICT adoption
    - Hands on training
    - Digital content

Support requested from APCICT/ESCAP in relation to ICT capacity building.
--
1. IT experts to:

- give hands-on training to ICT professionals in various
- Training on Emerging technologies

2. Course module for the digital literacy training that could be use and adopted

3. Open for collaboration for initiative relate to the capacity building

Thank You
Tashi Delek