



# Cloud-based e-Government Infrastructure

## GOV.LK Platforms, Common Frameworks and Infrastructure Initiatives

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# Overview

**1. Connectivity and Infrastructure**

**2. Digital Instruction Services**

**3. Policy**

**4. Legal Framework**

**5. Integrated messaging platform**

# ICT Agency of Sri Lanka (ICTA)

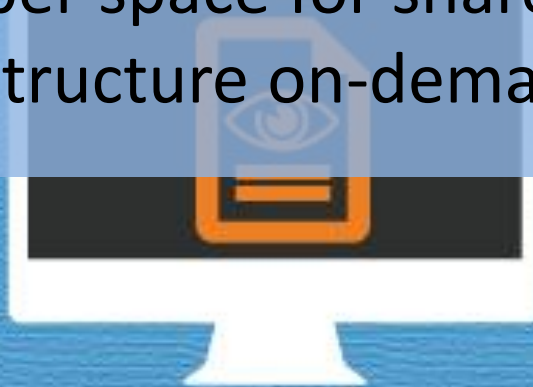


ICTA is the apex ICT institution of the Government which has been mandated to take all necessary measures to implement the Government's Policy and Action Plan in relation to ICT.

# 1. Connectivity and Infrastructure

# Lanka Government Cloud (2.0)

- Infrastructure elasticity – scale up /down based on load
- Easy replication /rollout of eGov apps avoiding duplication of effort and cost (configurable, multi-tenant apps)
- Certified Gov application - eGov APP Store
- Secure, unified cyber space for shared government services and infrastructure on-demand





# Lanka Government Network (1.0)

## 551 Government Organizations

Presidential Secretariat

Prime Ministers Office

46 Cabinet Ministries

60 Departments

22 Other GOV Organizations

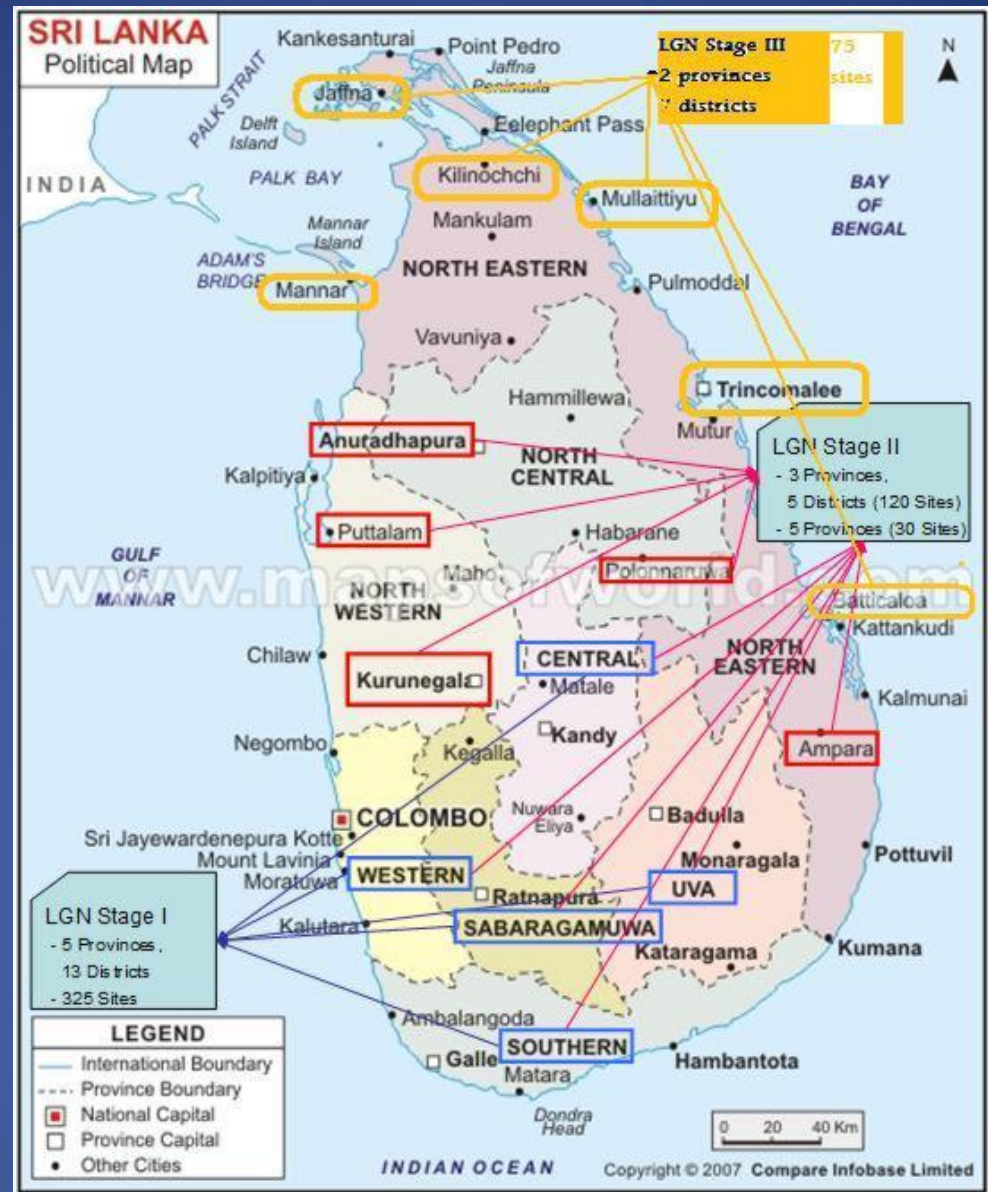
25 District Secretariats

331 Divisional Secretariats

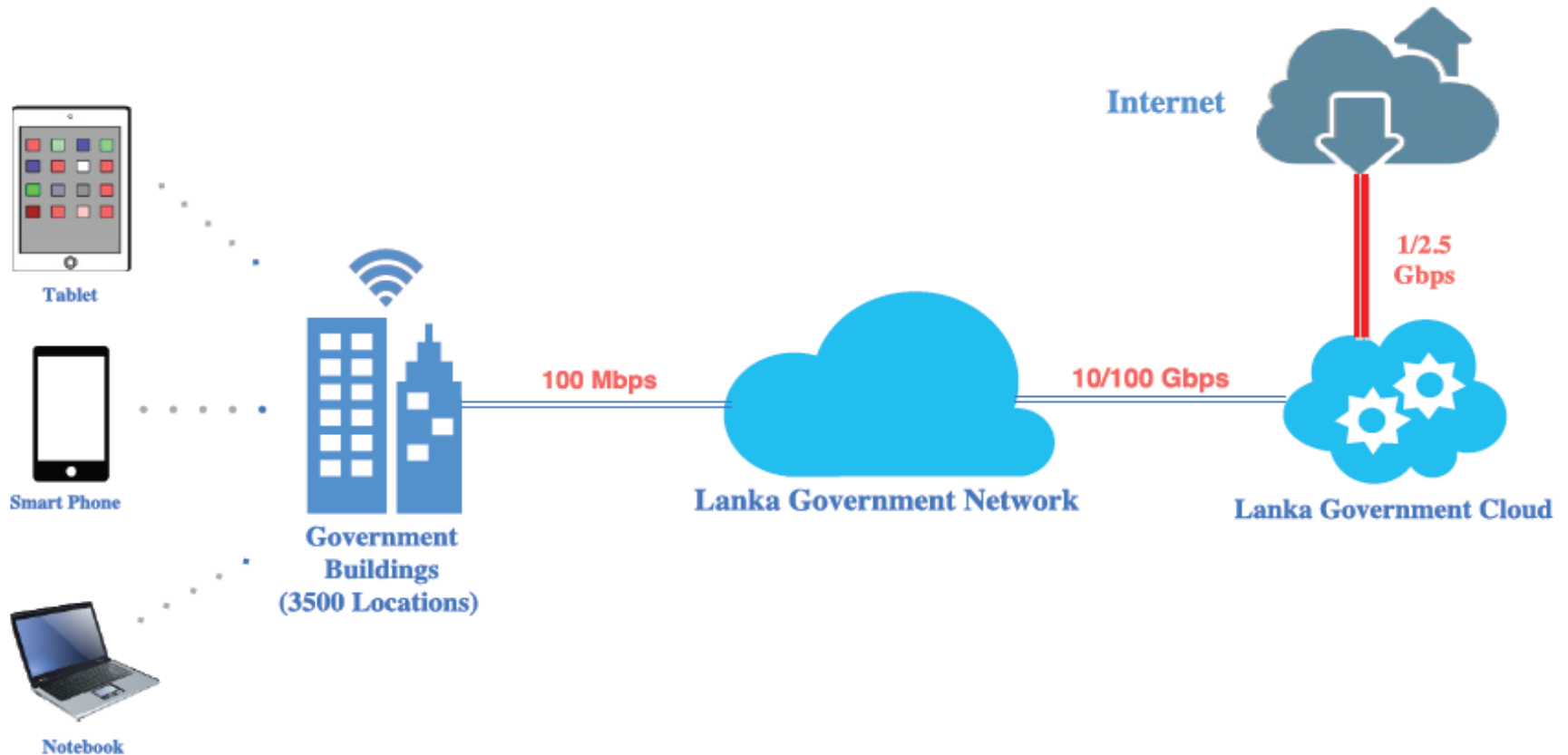
9 Chief Secretary Officers

36 Provincial Ministries

18 Provincial Departments



# Lanka Government Network (2.0)



# WiFi To Public

- 10,000 public locations in all districts with free WiFi connectivity
  - State universities, education institutions, railway stations, central bus stands, hospitals, public parks, public libraries, museums and Government offices
  - U.Free connectivity for all government service
  - U.Free connectivity for digital education
  - U.Free connectivity for all electronic financial transaction
  - U.Free connectivity for all health services

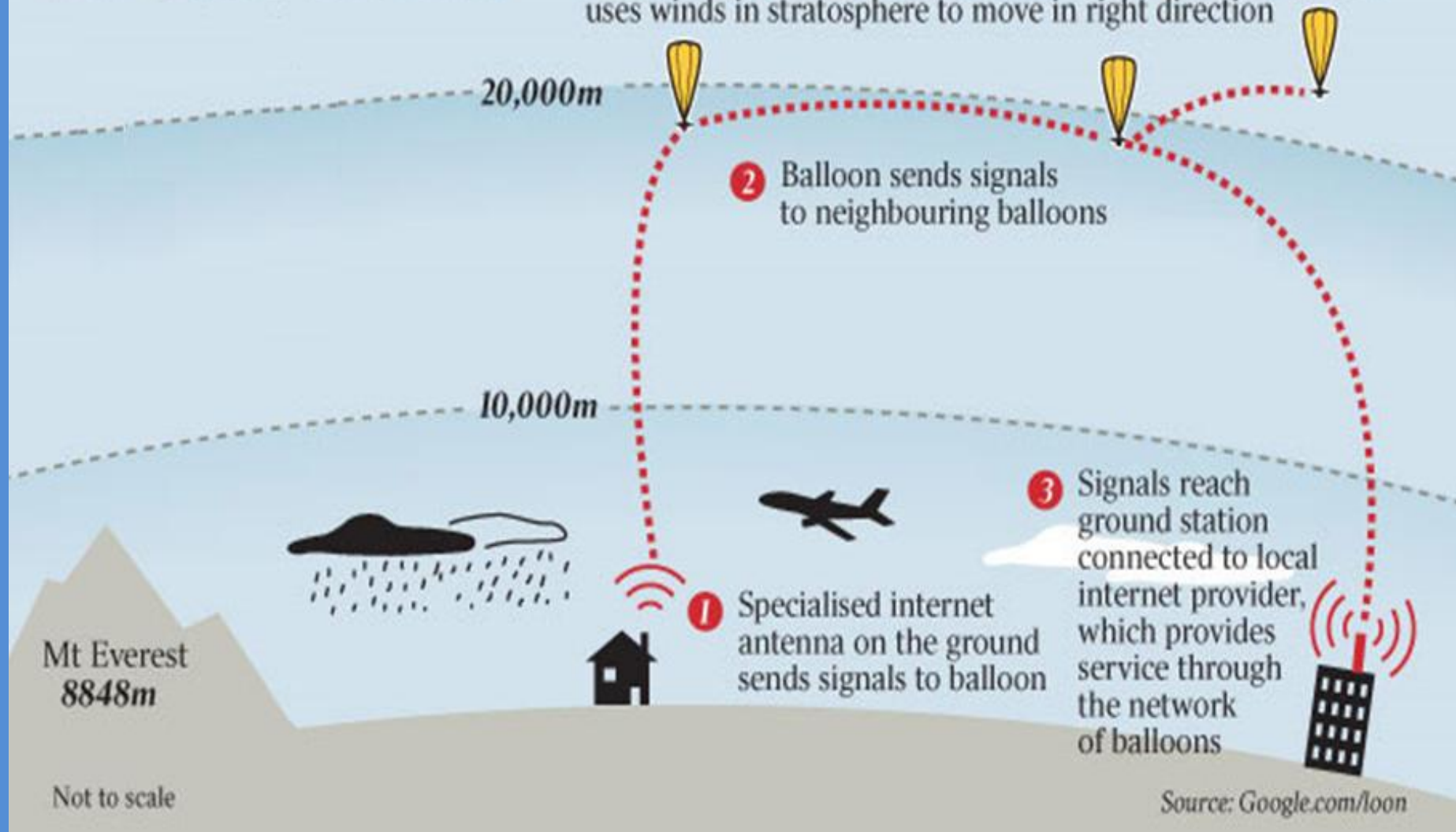




# Project Google Loon

## GOOGLE'S PROJECT LOON

**Loon balloon network:** Solar-powered, high-altitude balloon uses winds in stratosphere to move in right direction





**1,000,000 - Device Strategy**

## 2. Digital Instruction Service

# Digital Instruction Service

## Framework facilitating Digital Instructions for Citizens, Online via Web & Mobile

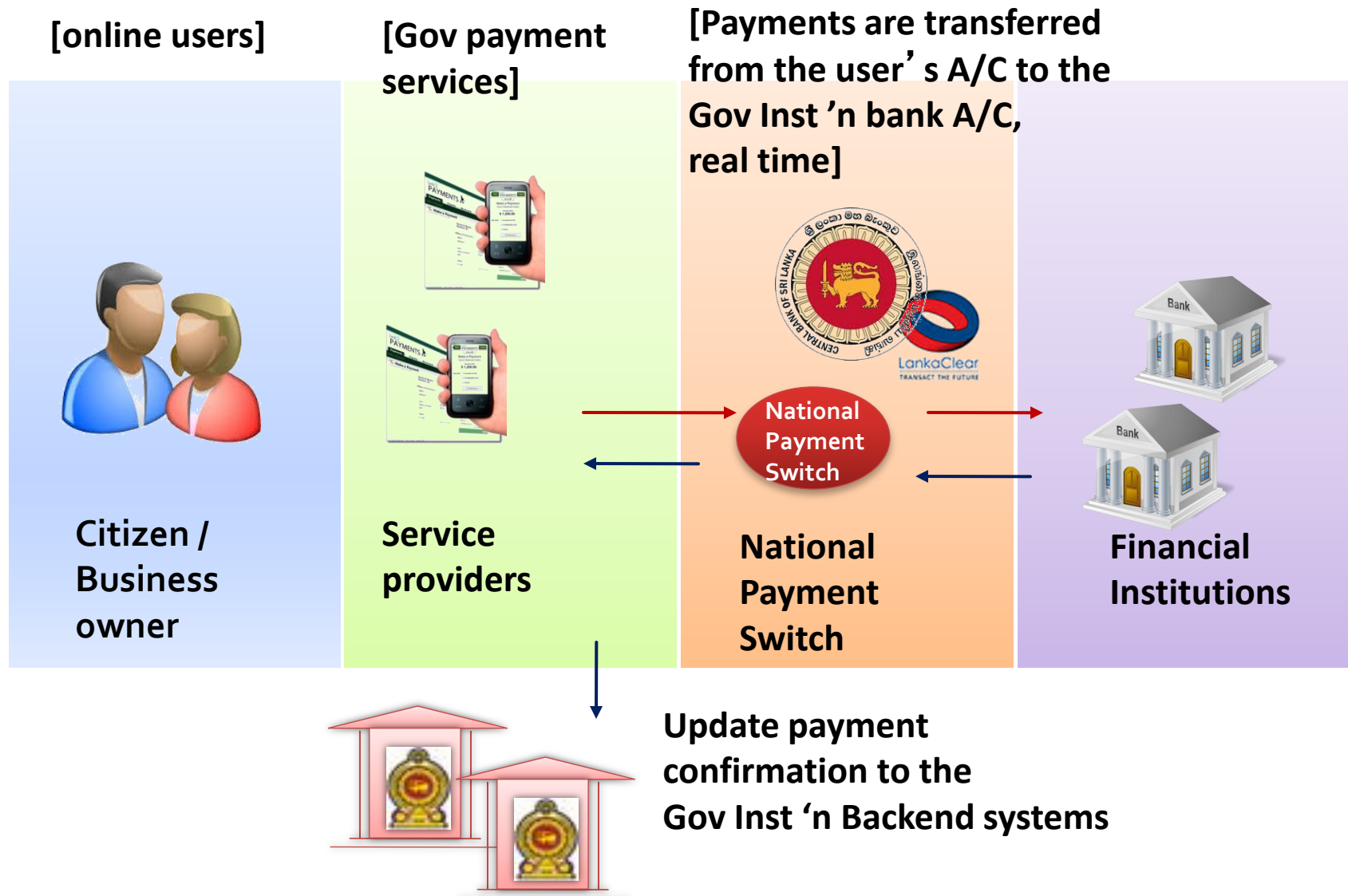
1. Online Payment Instruction
2. Online Forms Submission
3. Online Documents Submission
4. Online Judicial Evidence Submission

## 2. 1 Online payment Services

Framework facilitating  
payments online  
via credit/debit cards, mobile cash and real-  
time fund transfer



# Framework for real-time funds transfer for payments to government services



# Key Considerations

- Multiple online payment mechanisms for Gov service; eliminating existing deterrents (Credit/debit Cards, mobile cash, real-time fund transfers)
- Facilitates online payments for high ticket value payments (i.e. payments for customs)
- Eliminates costs associated with international payment card franchises (i.e. VISA/MasterCard)
- Facilitates multiple service providers
  - Competition; higher customer service for Gov services;
- Facilitate ALL Gov payment services; thus encouraging all citizens to be part of the banking system.

# National Certificate Authority

# National CA

- To facilitate
  - Secure electronic transactions
  - Right to information for citizens by securing access to information under the control of public authorities
  - Mutual recognition between NCAs of other countries and hence facilitating secure cross border transactions
  - Regulating and accreditation certification service providers
  - Issue digital identity for each citizen of the country
  - International recognition for the certificates issued by local certification service providers

## 3. Policy



# National Data Sharing Policy *and* Information and Service Classification

- To facilitate
  - Seamless sharing of data across government organizations and public
  - Promote open government principles
  - Creation of Integrated government services
  - Contribute towards efficient Government service delivery, Empowering citizens, Good governance and Right To Information

# Lanka Interoperability Framework (LIFe)

LIFe provide guidelines for gov information systems to standardize the data architecture and data exchange.

Enable the whole of government to operate as a single seamlessly integrated collaborated service, providing efficient and effective service through different service delivery channels.

## 4. Legal Framework

# Convention on Cybercrime

Convention on Cybercrime (the Budapest Convention);

International treaty seeking to address Internet and computer crime by harmonizing national laws, improving investigative techniques, and increasing cooperation among nations.

Cabinet Approved Ratification of Cross border contracts  
(UNCITRAL)

# Inter-Ministerial Committee

- Issuing directives on all ICT matters cross ministries, department, authorities, public and private institutions.
- High Level Committee including:
  - Minister of Telecommunication and Information Technology,
  - Minister of Finance,            Minister of Education,
  - Minister of Justice,            Minister of Public Law and Order,
  - Minister for Investment Promotion,
  - Minister Policy Planning, Secretary Public Administration,
  - State Minister Defense,    Secretary Defense,
  - Chairperson ICTA & MD ICTA

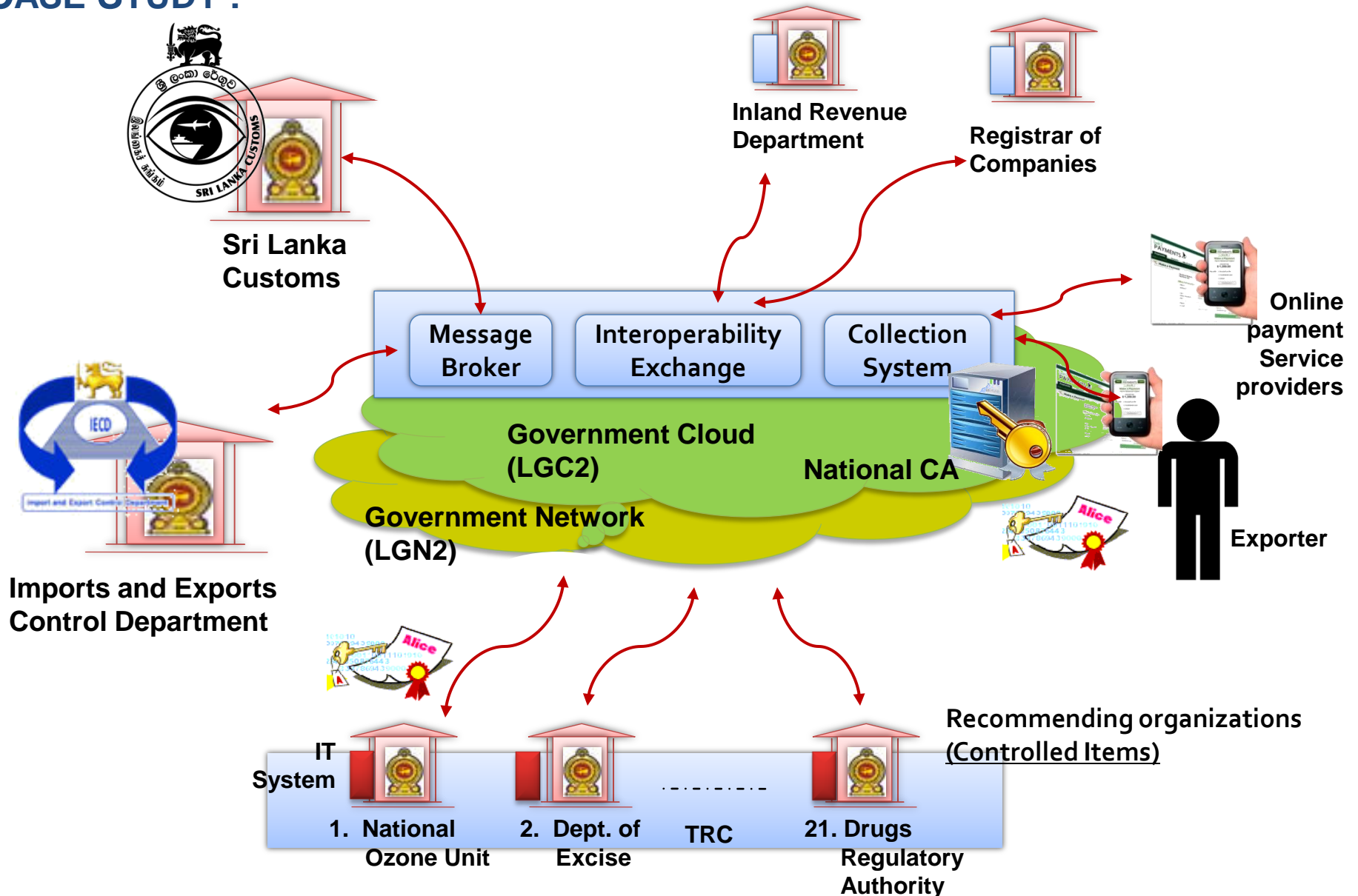


## 5. Integrated messaging platform

Framework for Messaging Flows

# Framework for Messaging Flows

## CASE STUDY :



# Thank you

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