

Saudi National PKI

Meshal M. Al-shahrani

National Center for Digital Certification (NCDC)



Agenda

- **NCDC Responsibilities**
- **Saudi PKI Hierarchy**
- **NCDC Journey - Major Milestones**

NCDC Responsibilities

Governance

- ✓ Develop legislative and regulatory framework for digital certification.
- ✓ Developing strategies , operational and development plans necessary for the working of the Center.
- ✓ Establish the legal framework and operational and administrative controls for certification service providers.
- ✓ Governance for the Saudi National PKI
- ✓ Provide licenses to qualifying applicants for offering digital certification services.
- ✓ Auditing and compliance for Saudi National PKI.
- ✓ Membership in regional and international committees and organizations.
- ✓ Ensure international recognition of Saudi National PKI.

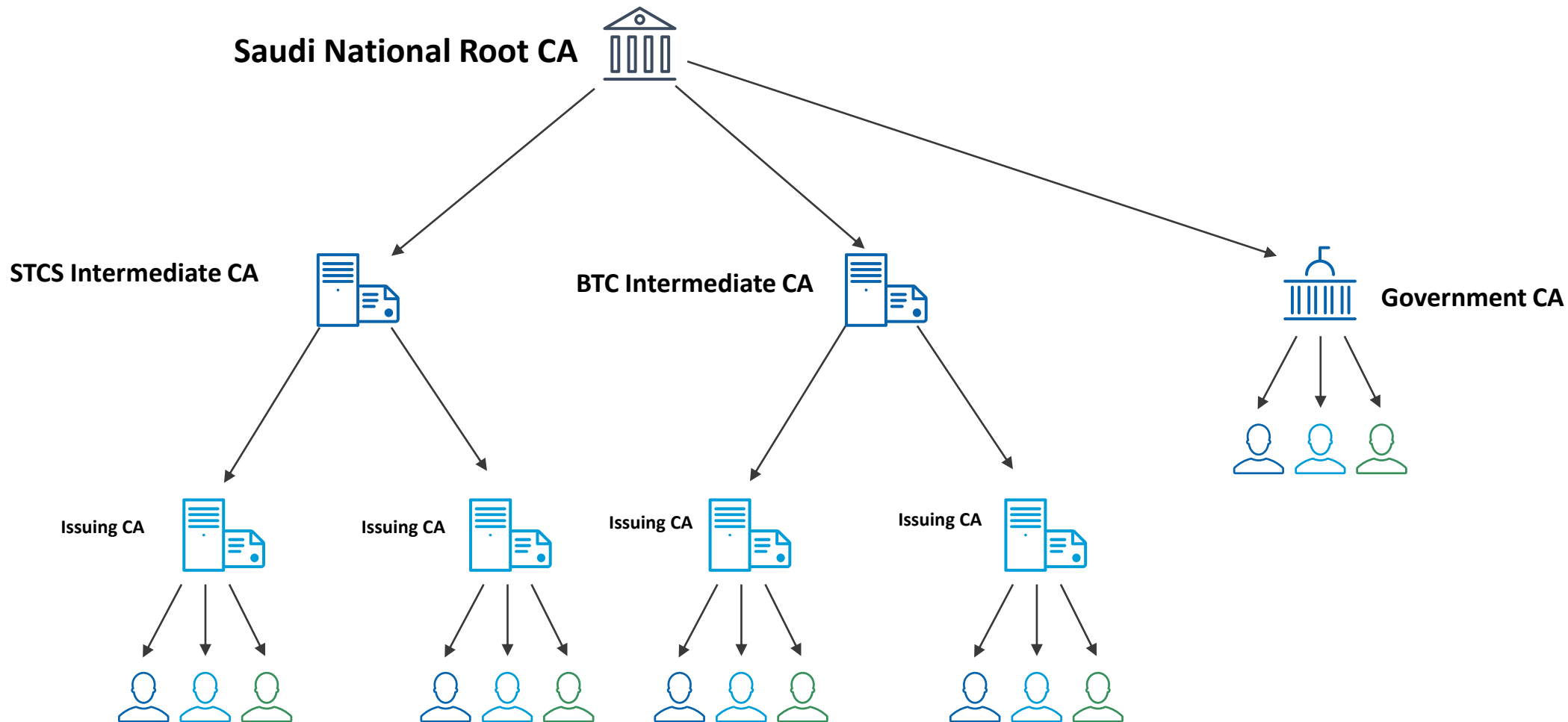
Operation

- ✓ Issuing and managing digital certificates.
- ✓ Managing, operating and maintaining public key infrastructure's devices and systems.
- ✓ Managing and operating the Saudi Root CA and the Government CA.
- ✓ Managing and operating digital platforms (digital signature, digital seal, time stamp).
- ✓ Managing and operating the data center and the Disaster center.
- ✓ Provide service and support to certification service providers in the public and private sectors.

Empowerment and Development

- ✓ Developing the center's products and services.
- ✓ Linking government and commercial entities with the center's services.
- ✓ Integration with other systems and platforms.
- ✓ Raise awareness, education and training on the importance of digital certification services.
- ✓ Innovation Center:
 - Localization of encryption techniques.
 - Integration with emerging technologies.

Saudi PKI Hierarchy



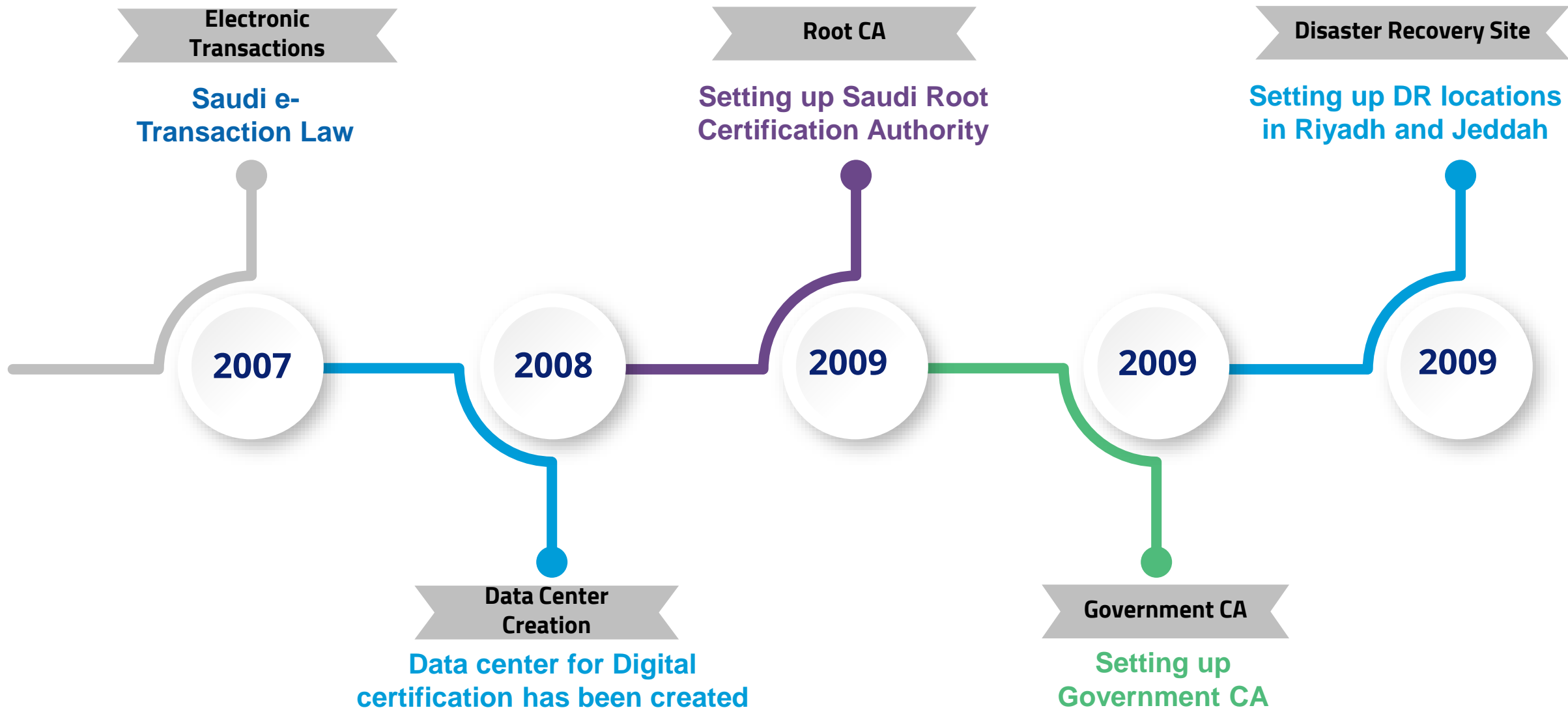
NCDC Data Center

State of the art data center with:

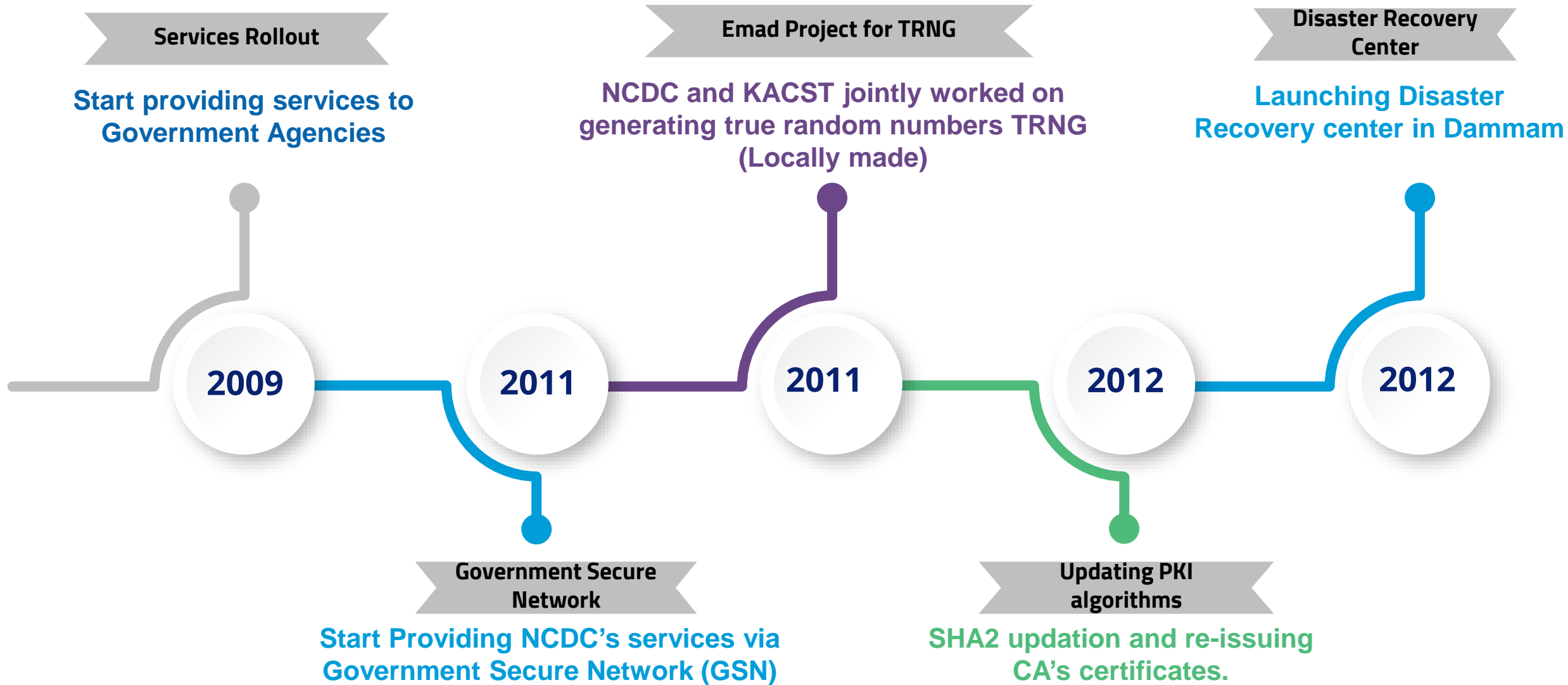
- Defense in Depth architecture
- Perimeter alarms
- Closed circuit television
- Multi factor authentication
- Dual mechanical rotary locks
- Main Access via Mantrap
- Radio frequency attenuation shielding
- Reinforced walls
- Motion detectors
- Cryptographic hardware for storing keys
- Facility monitor on a 24x7
- Human guards



NCDC Journey - Major Milestones



NCDC Journey - Major Milestones



NCDC Journey - Major Milestones

WebTrust

First Arab country awarded the WebTrust seal

2014

Commercial CA License

Two private companies have been licensed as commercial certification service providers

2017

Adobe AATL

Joined Adobe Approved Trusted List as first Arab country

2018

2019

Microsoft Root Program

Joined Microsoft Trusted Root Program

Launching Digital Signature

Start offering digital signature service



Global Digital Government Summit
قمة الحكومة الرقمية العالمية

30th April 2020



Thank You