DNSSEC DEPLOYMENT FOR .VN DOMAIN NAME

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DNSSEC Deployment Status

2012: Experimental

- Attended the forum, conference

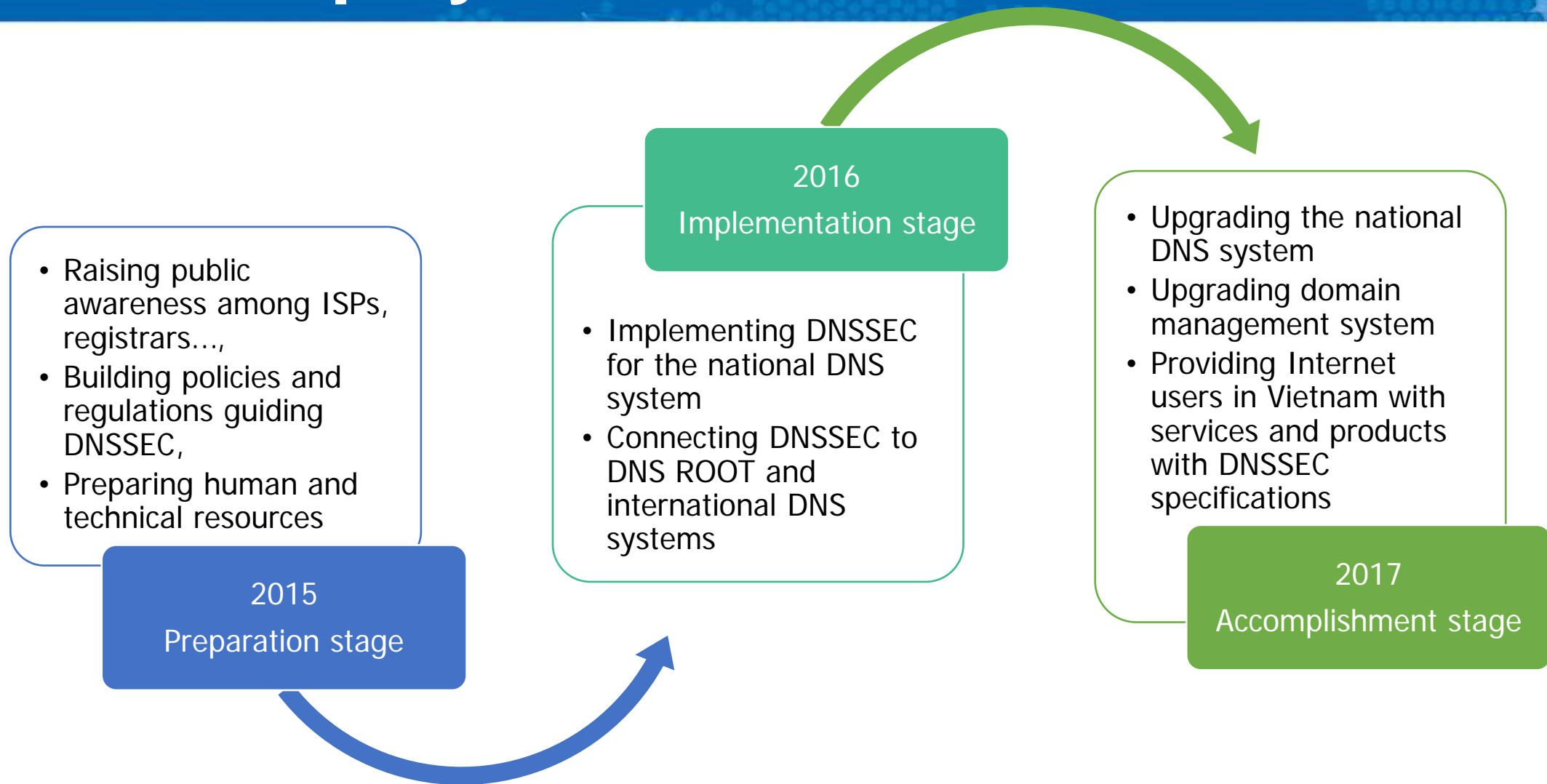- RFC for DNSSEC

2013: Announced

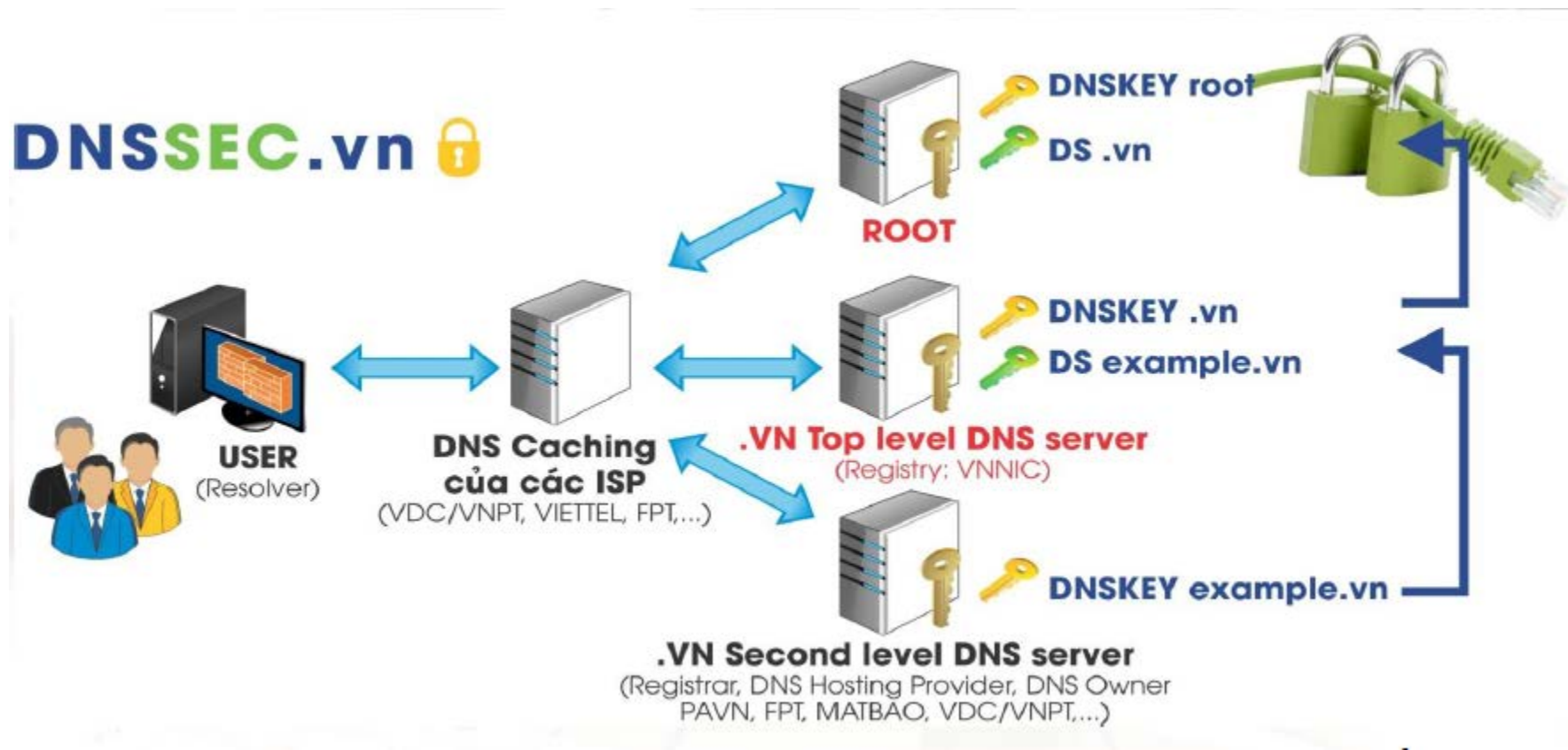- DNSSEC OT&E

- Training & drills

2014: Approve Project

The project of DNSSEC deployment for .VN domain name was approved with 3 phases from 2015-2017

DNSSEC Deployment Status

2016
Implementation stage

- Raising public awareness among ISPs, registrars...,
- Building policies and regulations guiding DNSSEC,
- Preparing human and technical resources

2015
Preparation stage

- Implementing DNSSEC for the national DNS system
- Connecting DNSSEC to DNS ROOT and international DNS systems

- Upgrading the national DNS system
- Upgrading domain management system
- Providing Internet users in Vietnam with services and products with DNSSEC specifications

2017
Accomplishment stage

DNSSEC Deployment Status

DNSSEC Deployment Status

VNNIC Implementation:

- OT&E System for testing.

- Not support:

    - <secDNS:maxSigLife>: apply the default value for all RRSIG in National DNS.

    - urgent attribute in <secDNS:update> element.

    - secDNS:keyData:

- VNNIC support <secDNS:dsData> only for further investigation process before update to National DNS.

- Maximum 06 DS Records.

DNSSEC Deployment Status

- Process of DS creation in National DNS:

  - DO NOT create the DS Record as soon as Registrar provided.

  - VNNIC compare the public key information between:

    - <secDNS:keyData> registrar provided via EPP.

    - DNSKEY Record in the Hosting zone.

  - Inform the Registrar if 2 information is not match.

  - Approve the creation if match.

DNSSEC Deployment Status

- **2015**
  - Implementation of DNSSEC trial system
  - Development of management softwares;
  - registration of domain names for DNNSEC
  - 03 training courses on DNSSEC for ISPs, registrars and IT enterprises in Ha Noi and Ho Chi Minh city...
- **2016**
  - Collaboration with APNIC and ICANN, hosted a workshop on DNSSEC for : government authorities, ISPs, CSPs, .vn accredited registrars
  - Workshop with NZRS (registry .NZ) on 8/2016
  - Preparing signing ceremony on 12/2016

DNSSEC Deployment Status

No.	Tasks	Results
1	DNSSEC Plan for .VN domain name	Done
2	Established DNSSEC team & Training skills	Done
3	Infrastructure for DNSSEC: - Topology: DC/DR - DNSSEC System: DNS/DNSSEC server & HSM	Done
4	DNSSEC Production for VN zone: - BIND & HSM Integrated - Inline-signing bump in the wire	Done
5	DNSSEC monitoring	Done
6	DNSSEC documents & DPS	Done

DNSSEC Deployment Status

No.	Tasks	Results
7	Key signing ceremony scripts	In Progress
8	Signing VN zone & update DS to root	Dec, 2016
9	SRS-EPP OTE support DNSSEC, open testing with Registrars	Jan, 2017

THANK YOU!

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