NEC

WWRF 5G Huddle 2016: Making the vision a reality

What are we doing to secure 5G?

Dr. Anand R. Prasad, NEC Corporation

Chairman 3GPP SA3 (Security)

Chief Advanced Technologist, Executive Specialist

\Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create

the ICT-enabled society of tomorrow.

We collaborate closely with partners and customers around the world,

orchestrating each project to ensure all its parts are fine-tuned to local needs.

Every day, our innovative solutions for society contribute to

greater safety, security, efficiency and equality,

and enable people to live brighter lives.

3GPP SA3 Activity

Study on Architecture and Security for Next Generation System (FS_NSA)
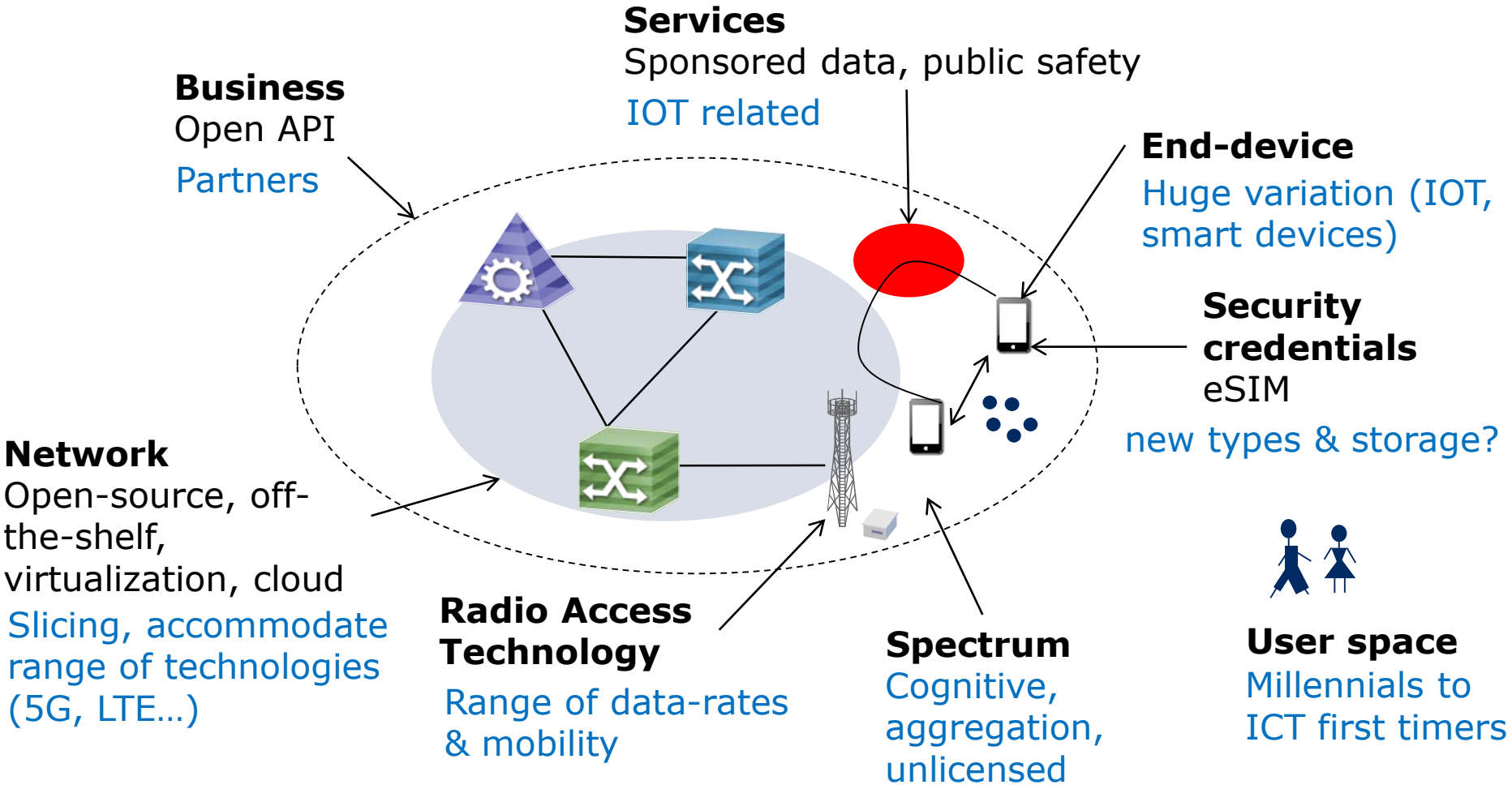
▌ Activity starts from SA3#83, 9 – 13 May, 2016

▌ Completion: December 2016

▌ TR 33.899: Study on the Security Aspects of the Next Generation System

▌ The SA3 objective is to study preliminary threats, requirements and solutions for the security of next generation mobile networks.

▌ The expected work will include:

- Collection, analysis and further investigation of potential security threats and requirements for the next generation systems, based on the work of 3GPP Working Groups.
- Investigation of the security architecture and access security in co-operation with SA2, RAN2 and RAN3.

 Dr. Anand R. Prasad   https://jp.linkedin.com/in/arprasad   \Orchestrating a brighter world   NEC

Business
Open API
Partners

Services
Sponsored data, public safety
IOT related

End-device
Huge variation (IOT, smart devices)

Security credentials
eSIM

new types & storage?

Network
Open-source, off-the-shelf, virtualization, cloud
Slicing, accommodate range of technologies (5G, LTE…)

Radio Access Technology
Range of data-rates & mobility

Spectrum
Cognitive, aggregation, unlicensed

User space
Millennials to ICT first timers

Orchestrating a brighter world   **NEC**

- Identity

- Assurance

- Authentication

- Monitoring

- Key management

- Life-cycle

- Crypto algorithm

- Network

- Mobility

- Protocol

- Storage

- Backward compatibility

Dr. Anand R. Prasad   https://jp.linkedin.com/in/arprasad   \Orchestrating a brighter world   NEC
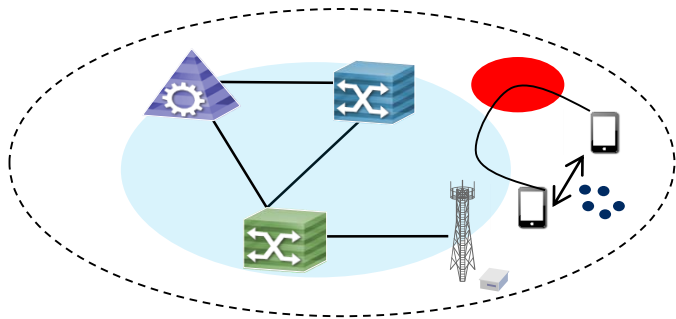
Baseline security

Security drives mobile business

Security will define 5G

     Dr. Anand R. Prasad   https://jp.linkedin.com/in/arprasad   \Orchestrating a brighter world   **NEC**

Thank You

\Orchestrating a brighter world

NEC

Dr. Anand R. Prasad

anand@bq.jp.nec.com

https://jp.linkedin.com/in/arprasad

http://www.prasad.bz/