

Identity-To-Go – Secure & Convenient Authentication for eID Cards and Smartphones

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SECURE CONNECTIONS
FOR A SMARTER WORLD

NXP Provides Secure Connections for a Smarter World



- Enhanced security
- Mesh connectivity
- Sensors
- Smart LED lighting
- Gateway & cyber security
- Access



- Car entertainment
- In-vehicle networking
- Car access
- Car2X and Radar



- Secure bank cards
- Mobile transactions
- Loyalty- reward
- RFID tags - labels
- Supply chain monitoring
- NFC readers



- e-passport
- Smart eID
- Health card
- Driving license



- Contactless transport card
- Access solutions
- Micro-payments



eGovernment Challenges

Challenge

Response

Fraud - identity theft - document forging

- Secure authentication on the road and in governmental offices
- Secure validation, authenticate holders, high hurdle to forgery
- Electronic governmental documents based on secure IC solutions



Budget pressure for public administration

- Internet-based online eGov service
- 24x7 availability, no office staff required
- Secure authentication as prerequisite

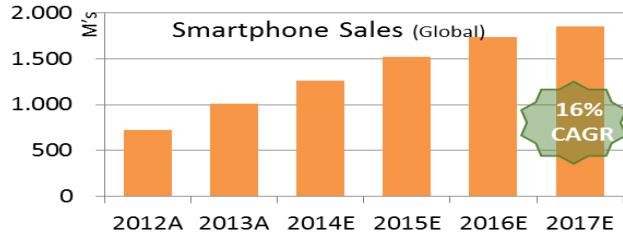


Secure internet transactions as base for a thriving economy

- From real world to online shops/offices
- Secure access from any computer
- Secure authentication & digital signature
- Most secure and convenient authentication/digital signing through secure smart cards
- E.g. EU "Digital Single Market" Horizon2020 (70bn EUR), STORK, ...

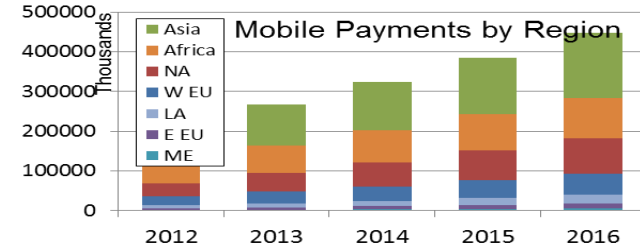


Why target mobile devices for citizen authentication?



Consumer habits increasingly shifting to mobile.

Forecast for >400M mobile payment users by 2016.

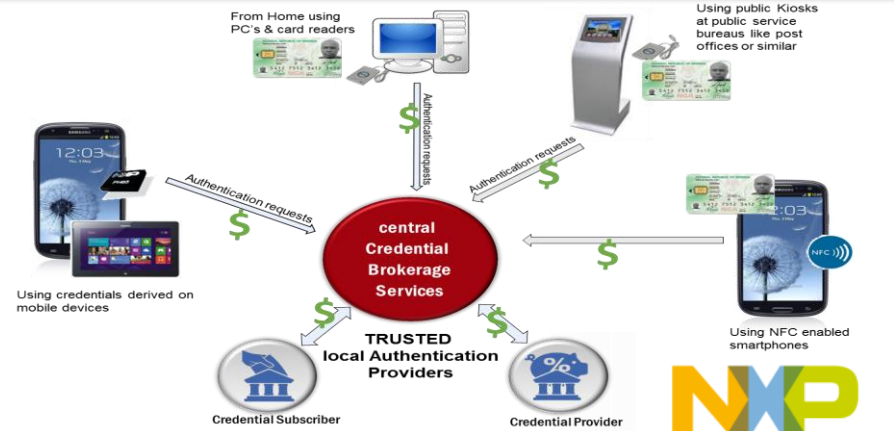


Mobile Phone HW/SW enable orders of magnitude more processing and storage than Secure Elements on chip cards

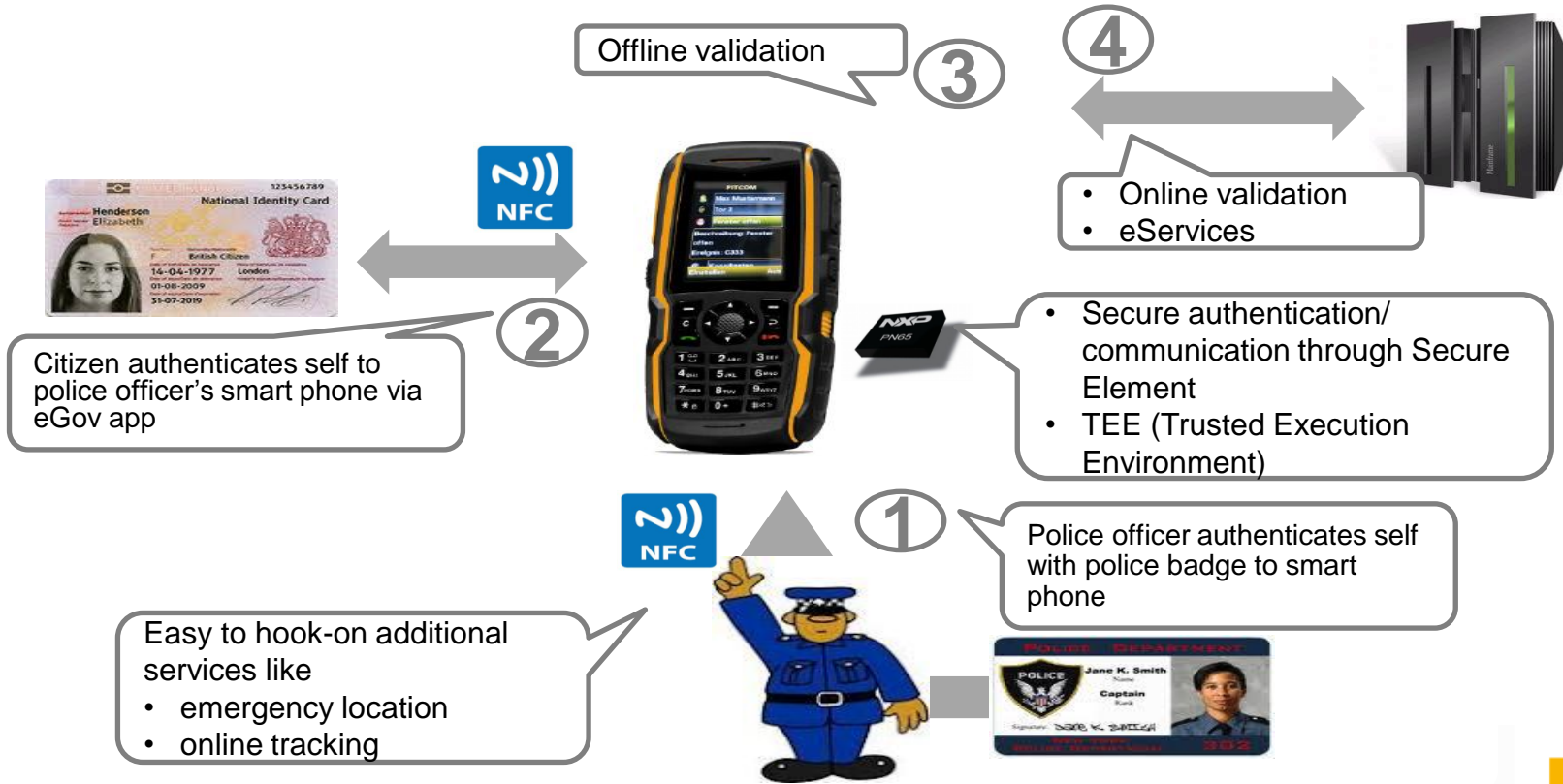
→ **Roadmap to enable future services which are anchored by the card**

Use the Card @ Point-of-Service to Provide On-Line Services and Enabling Derived Credentials

Anchoring in trusted mobile devices makes access to services easier and creates add revenue opportunities



Alternative cost effective eID inspection systems

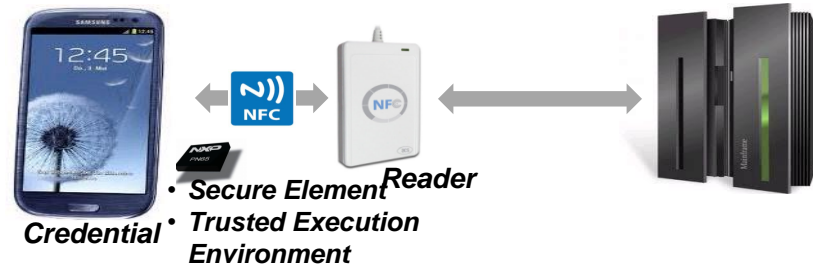


Mobile phone as a secure reader ...

- ... cost-effective complement to inspection systems
- ... attractive variant under budget constraints
- ... use of existing infrastructure
- ... very convenient form factor
- ... network availability in remote areas
- ... more frequent checks = higher security
- ... little training and rollout costs



Beyond the eID card



- Is THE national eID credential
- Highest security including printed security features
- Mandatory for law enforcement scenarios



- 
- **Secure Element**
 - **Trusted Execution Environment**

- Complementary eID credential (not replacement of eID)
- Not sufficient for law-enforcement scenarios
- Convenient credential for various identification purposes
- Possible usage scenarios:
Commercial transaction, age verification
- But ... legislative framework still undefined

Mobile phone as a secure credential ...

- ... complementary governmental ID
- ... most citizens more likely to carry than ID
- ... hooks on growing smart phone use
- ... allows additional eServices, e.g.
 - Commercial transactions (QES)
 - Age verification
 - 24x7 eGov service points

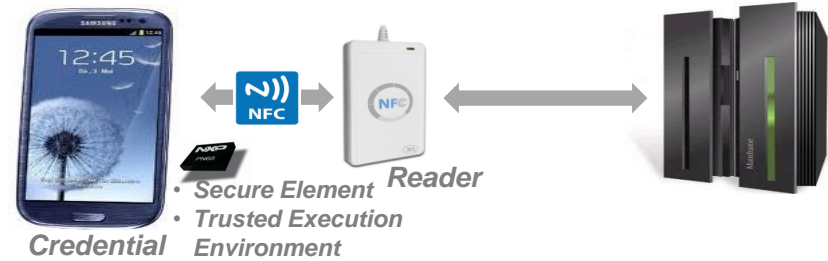


2 scenarios to benefit from using smart phones in eGov applications

Smart phone as *secure reader*



Smart phone as *secure credential*



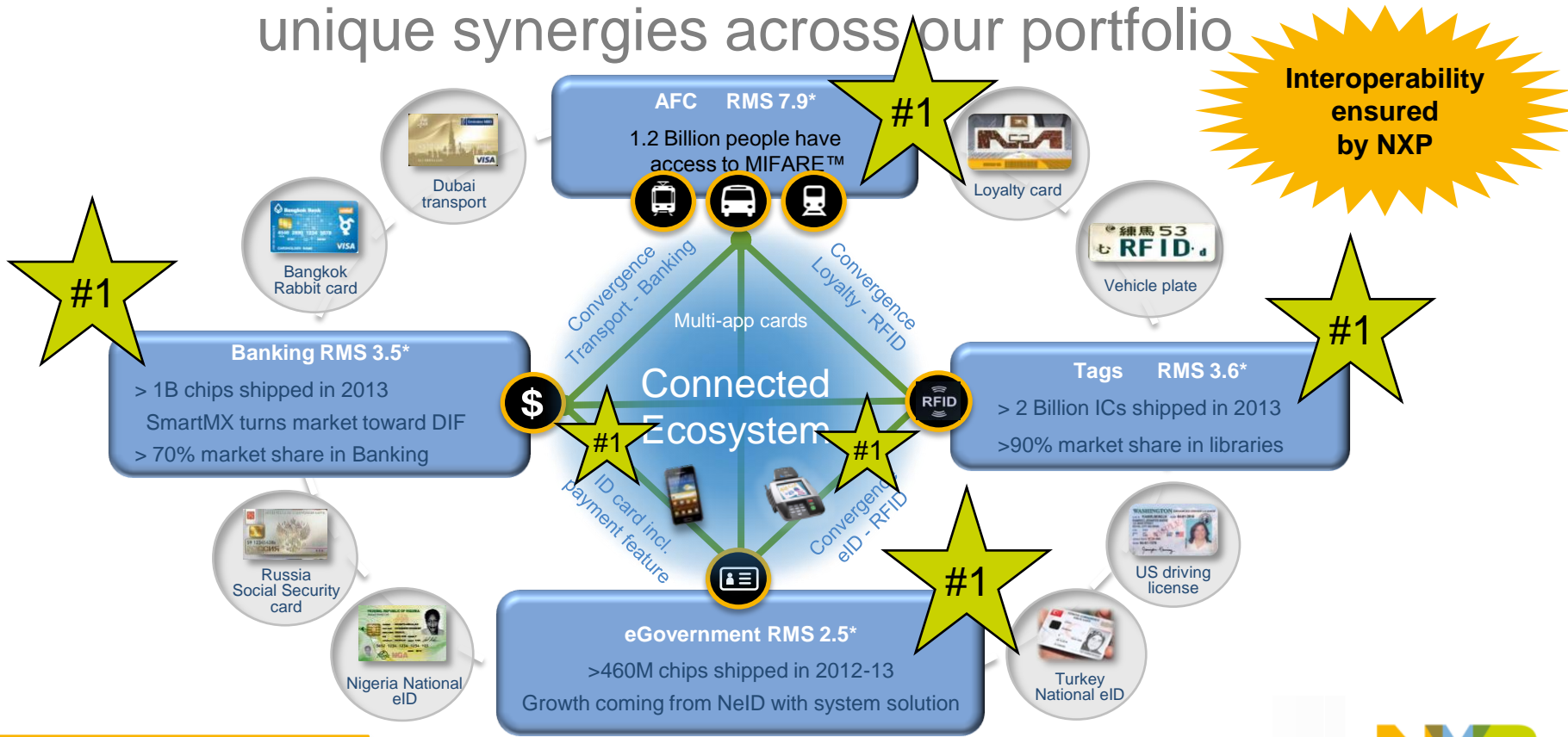
- Smart phones to gain significance in complementary eGovernment solutions
- Drivers
 - Reduced cost & higher security for governments
 - Convenience and additional services for citizens
- Crucial technology factors
 - NFC support
 - Secure Element
 - Secure eID microprocessor Ics
 - Contactless or Dual Interface ID Cards

What can NXP bring you ?



NXP Smart Identification Solutions

unique synergies across our portfolio



**SECURE CONNECTIONS
FOR A SMARTER WORLD**

*2013 RMS



Ecosystem relies on NXP – a Trusted Advisor for Governments

Customer & Technology Partners



Banks and Financial Institutions



Transport Operators



Governments/Printing Houses



System Integrators



Mobile and Reader Makers



Certification Bodies



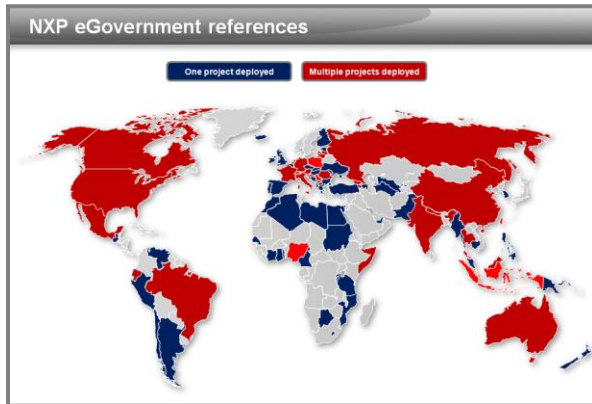
Standard and Interoperability



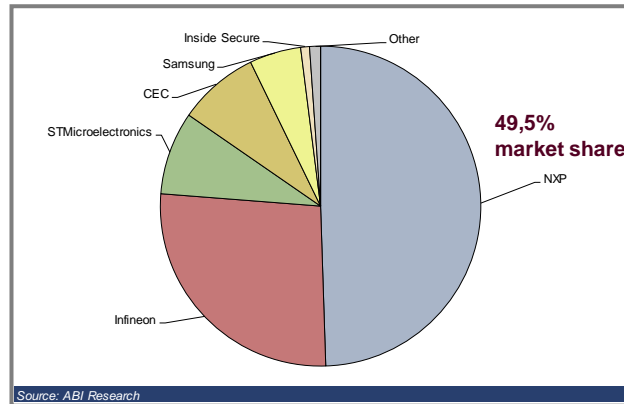
- Multitude of partnerships & connections along complete ecosystem
- Ability to consult on every aspect of the business
- Bring relevant partners to the project to ensure successful execution



NXP - the global leader in eGovernment



- **109 out of 136 countries** that introduced eGovernment solutions use NXP
- **261 out of 393 projects** worldwide are based on NXP Secure ICs

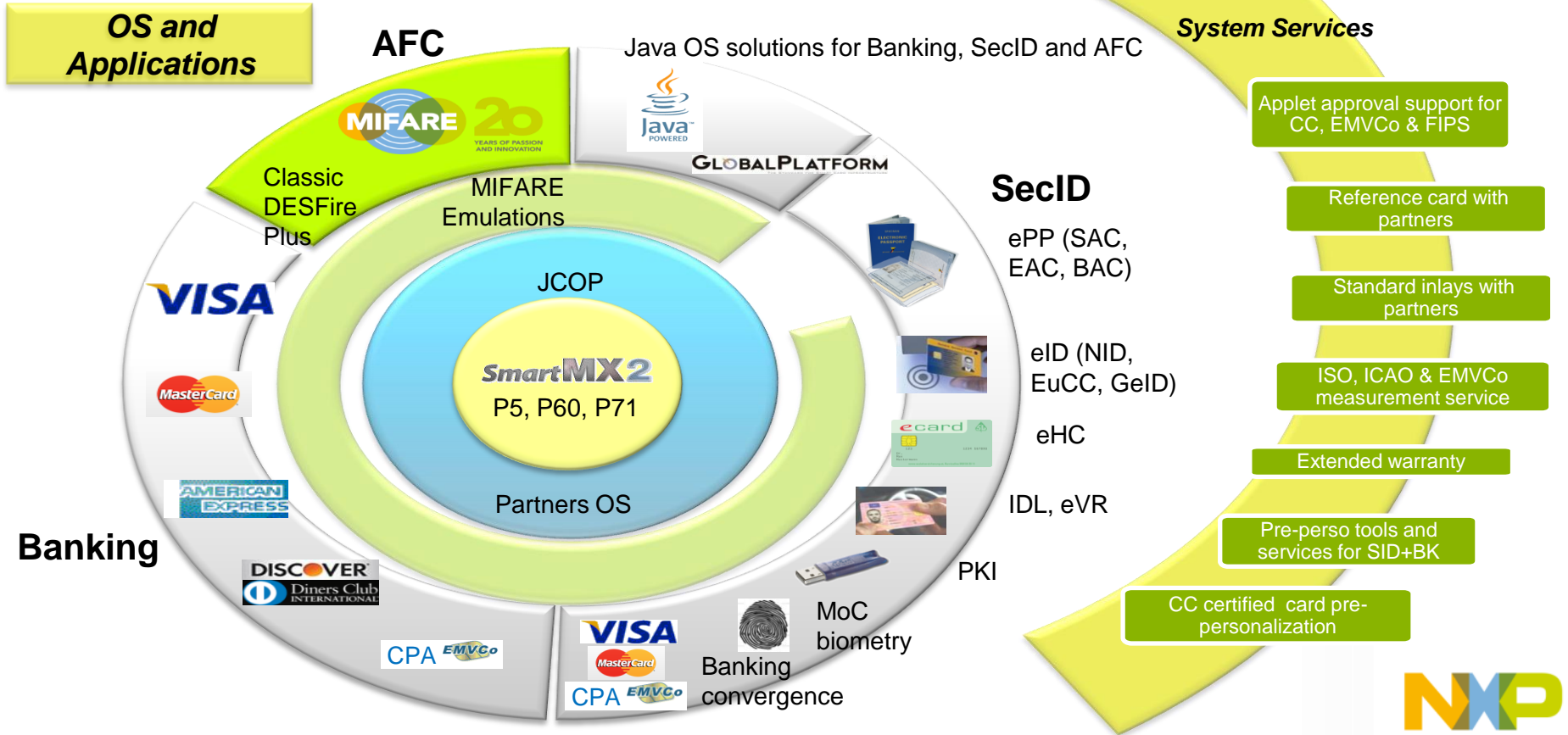


- #1 in eGovernment (*)
- Shipped >1Bln Secure ICs for eGov

* ABI Research - Government and Healthcare Citizen ID Cards – Dec. 2014
IMS Research - Electronic Government & Healthcare ID Cards - Nov. 2014



NXP- Solution offering



THANK YOU FOR YOUR ATTENTION

The NXP logo is displayed in a large, stylized font. The 'N' is orange, the 'X' is blue, and the 'P' is green. The letters are composed of geometric shapes, with some overlapping and some having a 3D effect.

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You can contact me at
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and visit our booth

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