

Security and Privacy Challenges in Future Internet



Dr. Vangelis OUZOUNIS
Head of Unit - Secure Infrastructure and Services
12th June 2014





Securing Europe's Information Society



Operational Office in Athens



Seat in Heraklion



ENISA activities

Recommendations



Policy Implementation



Mobilising Communities



Hands on





Business and ICT Trends

- Social Media
- Mobile Devices & Applications
- Cloud Computing
- Big data
- Transparent Mobility
- Smart Cities
- Internet of things
- M2M communications
- eHealth





Security and Privacy Challenges

- availability and resilience - key to sustain online services and applications
- critical information infrastructures will become more critical!
- managing security becomes a challenge as ICT complexity increases
- interoperability of complex applications and data running on different networks
- wide deployment of IoTs – many more vulnerabilities and threads
- interdependencies of infrastructures
- consumerisation of privacy



Possible Actions

- learn more from incidents by reporting them and sharing lessons learnt
- more effective public private co-operation (e.g. in preparedness)
- national cyber security strategies
- better quality software and hardware
- put emphasis on CIIP (traditional and emerging CIIIs)
- step up efforts to effectively address cyber crime
- augment existing measures to protect privacy of users/citizens
- make users/citizens and SMEs part of the solution through awareness raising
- universities should “produce” more security professionals
- more R&D to understand security, privacy and resilience challenges