



Transforming cities securely

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“Shaping Smarter and More Sustainable Cities: Striving for Sustainable Development Goals”

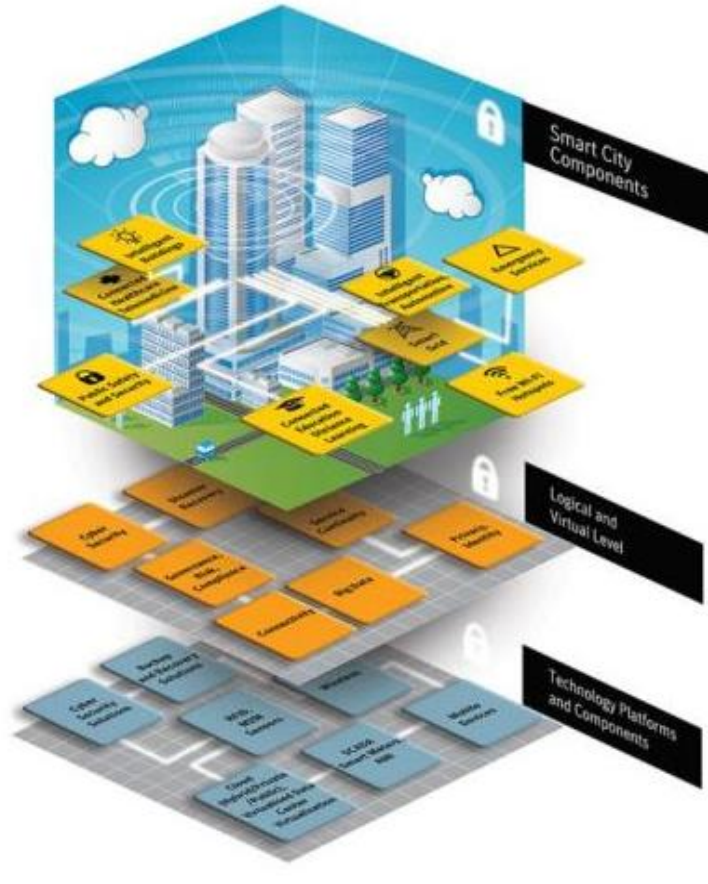
18-19 May 2016 - Rome, Italy



Urban challenges & Smart City evolution



The Smart City equation



Smart City Components

- Intelligent buildings
- Public Safety & Security
- Connected Healthcare, Telemedicine, Education, Distant Learning
- Free Wi-Fi hotspots
- Emergency services
- Intelligent transportation
- Smart Grid

Logical & Virtual Level

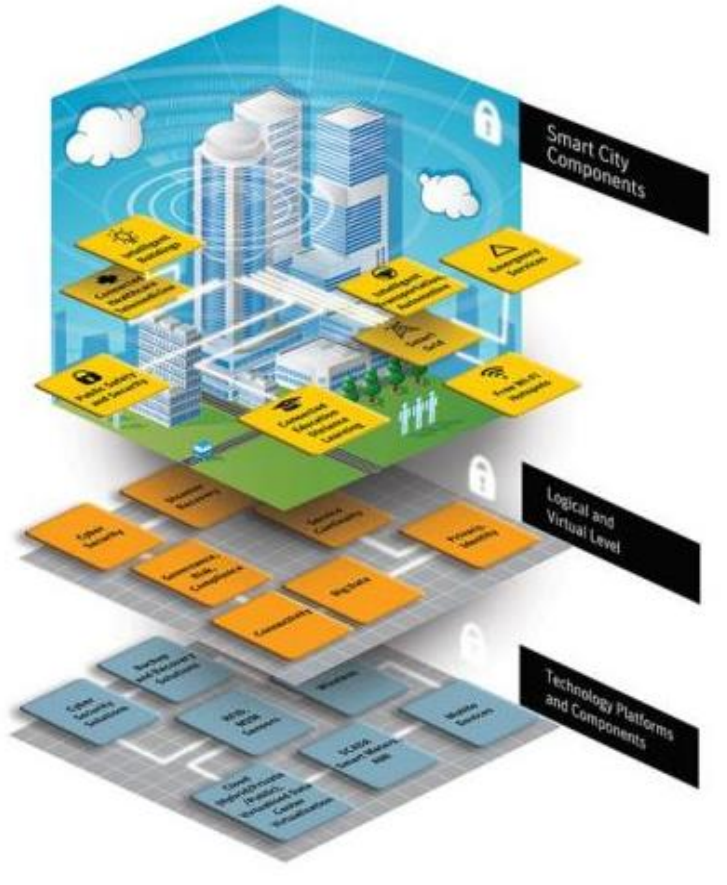
- Cyber Security
- Governance, Risk, Compliance
- Connectivity, IoT
- Big Data
- Disaster recovery
- Privacy, Identity
- Service continuity

Technology Platform & Components

- Cyber Security solutions
- Backup and recovery solutions
- IoT, RFID, M2M, Sensors
- SCADA, Smart meters
- Mobile devices
- Wireless
- Cloud, Virtualized Data Centre



The Smart City equation



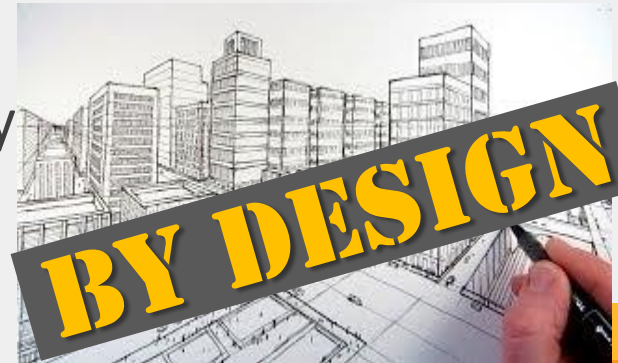
High-Connectivity +

High-Complexity +

High-Volume of data =

High-Vulnerability

- Cyber security
- Integrity
- Availability
- Reliability
- Privacy
- Resilience



ISTR Vol 21: 2015 Key Findings

- **~1,179,000** new pieces of unique malware discovered...
...per day. (i.e. **430 Million** over the year)
- **~500 Million** identities exposed
- **9 mega breaches** (a record) occurred in 2015
- **55% increase** in the number of spear-phishing campaigns attacks in 2015
- **3 out of every 4** legitimate websites have unpatched vulnerabilities
- **125% increase** in the number of zero-day vulnerabilities discovered
- **35% increase** in crypto-ransomware, as it spread to businesses and hospitals
- **Less than half** of data breaches are due to hackers.



The Internet of Things



Things



Data



People



Standards



Legislation

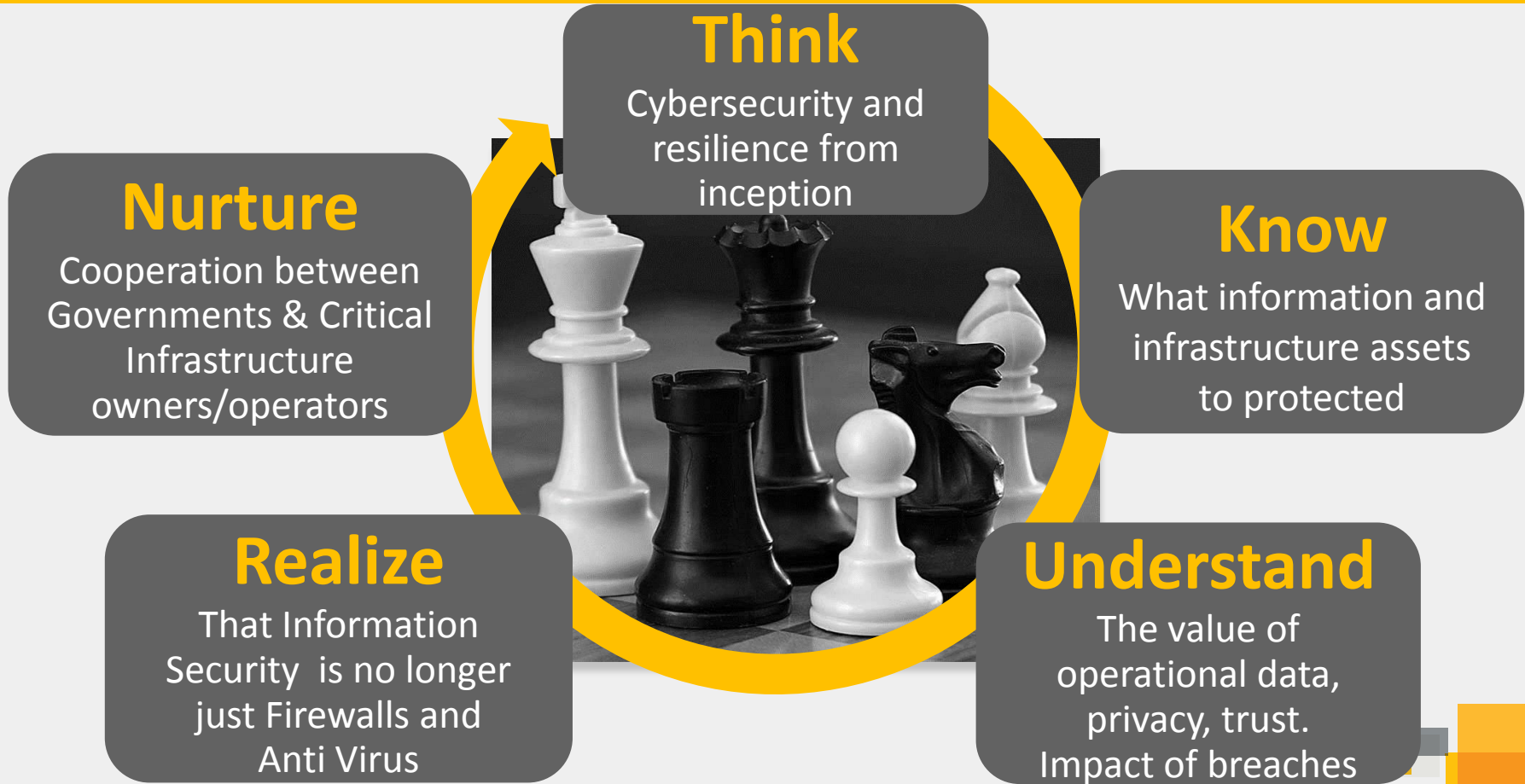
- The next big digital transformation.
- Connect devices and sensors with data, processes and people.
- Will provide the foundational infrastructure for a smarter planet.

However...

- **Billions of devices on the market with little or no provisions for cyber security or privacy**
- **A ticking time bomb**



Change in strategic thinking for Smart Cities and CIIP



Security Technology Trends



Cyber Security Services

Monitoring, Incident Response, Simulation, Adversary Threat Intelligence

Threat Protection



ENDPOINTS



DATA CENTER



GATEWAYS



Information Protection



DATA



IDENTITIES

Advanced Threat Protection

- On-Premise, Virtual, and Cloud

- Integrated Data and Identity Protection
- Cloud-based Encryption and Key Management



Unified Security Analytics Platform



Conclusions

Smart City implementations imply vulnerability

- Diverse stakeholders
- Emerging technology, hyper-connectivity, hyper-complexity, heterogeneous ICT implementations, IoT, Big Data, Cloud, Mobility, fragmented boundaries
→ increasing vulnerability
- Increasing attacks, attackers, motivations, sophistication, persistence, success

Cyber-attacks and data breaches are costly

- Data loss, financial loss, reputation & credibility loss → Human lives?

Conceive the resilient smart city with cyber-security & data protection in mind

- Acquire intelligence
- Organise processes
- Educate people
- Equip with appropriate technological tools





Grazie!

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