Industry Challenges & Opportunities
In Future Cybersecurity Certification Schemes
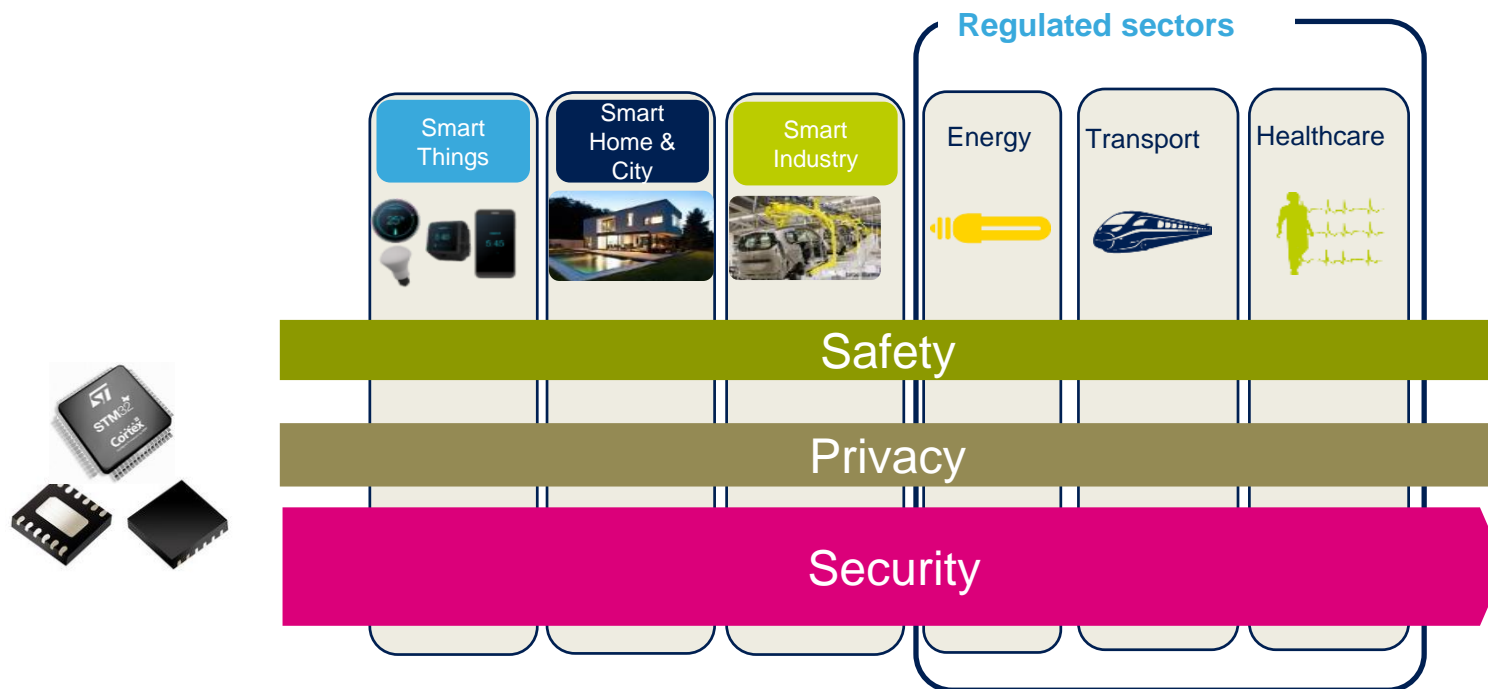
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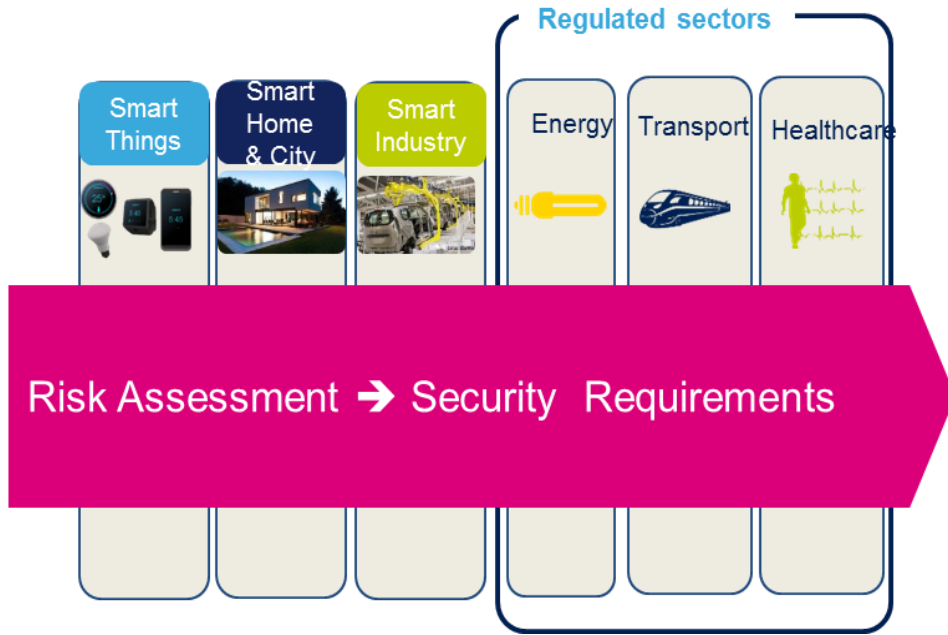**STMicroelectronics**

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Semiconductor Industry Commitment

Provide devices with adequate security features/foundations

- to serve the entire eco-system
- at an optimized cost/benefit ratio

Regulated sectors

| Smart Things | Smart Home & City | Smart Industry | Energy | Transport | Healthcare |

Safety

Privacy

Security

Regulated sectors

Smart Things

Smart Home & City

Smart Industry

Energy

Transport

Healthcare

Risk Assessment ➔ Security Requirements

Security toolbox

Attack potential

Security counter-measures

Basic   Substantial   High

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How To Trust Security?

With Security Evaluations / Certifications

'What' should be protected?

Requirements

How it is evaluated?

Evaluation

Certification

Proves that the requirement is met

Requirements

Standards
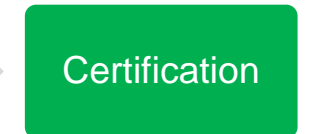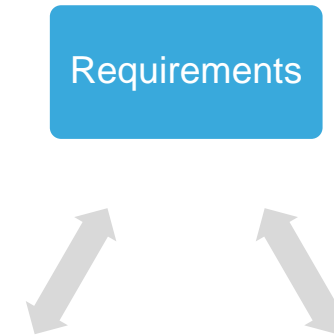
Certification

Standards provide common rules

EU Certification Framework

Scalable security framework proposal

Levels	What is tested	Scheme
High	Compliance & Robustness	Full certification
Substantial	Compliance & Robustness	Lightweight certification
Basic	Compliance	External evaluation
		Self evaluation

- **Benefits**
  - Risk management based, scalable solutions
  - Increased security visibility before purchase
  - Harmonized framework across sectors
  - Reduce EU market fragmentation
  - Support for implementing new regulations

- **Challenges**
  - Broad applicability
  - Assurance levels criteria & governance
  - Preserve value of existing certificates
  - Adoption by private sector, worldwide recognition

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Thank you!