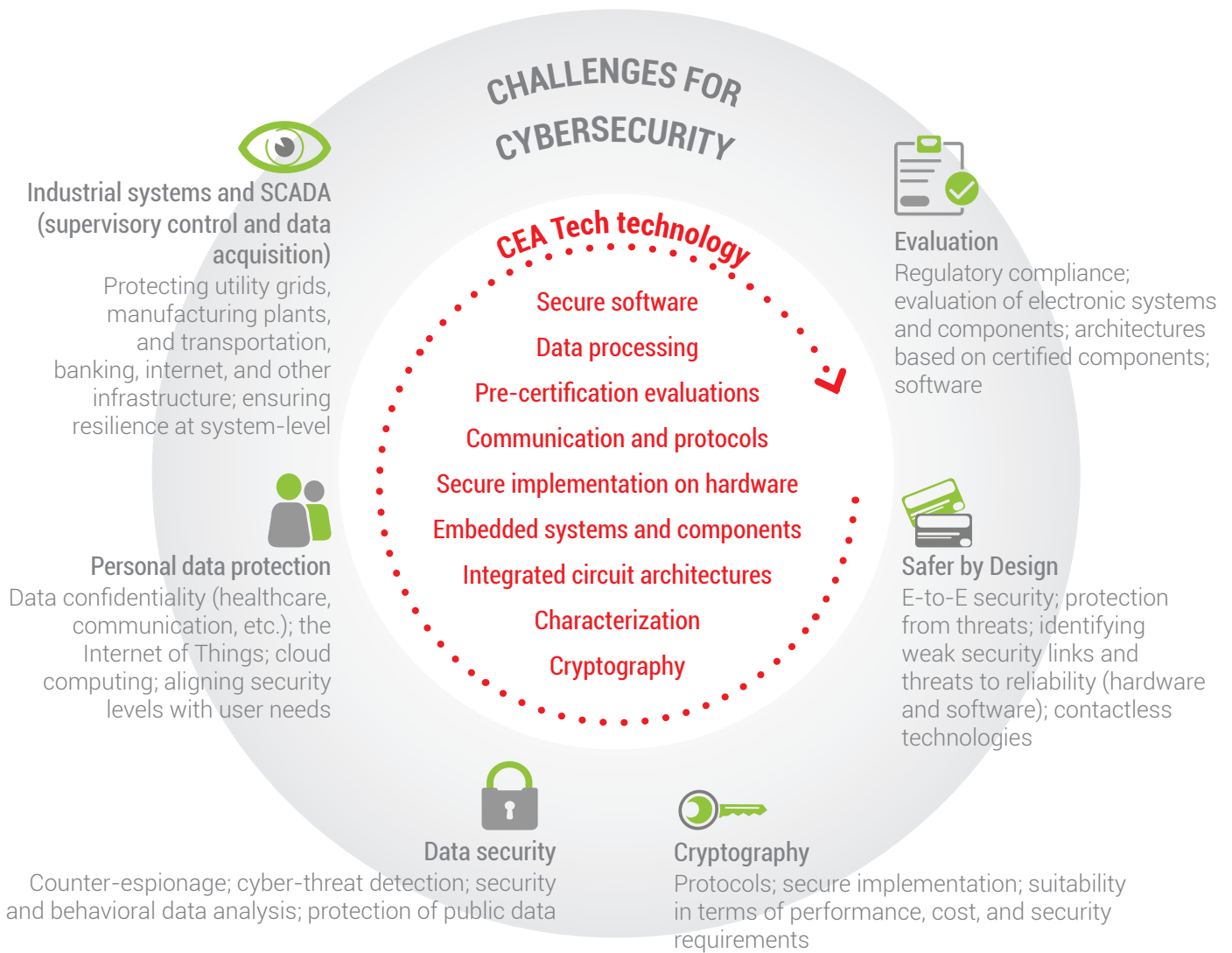




CEA TECH SERVICES FOR CYBERSECURITY

Technology for cybersecurity challenges:



CEA Tech can help the following businesses:

- Component and systems manufacturers
- Software developers and security service providers
- Critical infrastructure manufacturers and operators
- Manufacturers in the transportation and aerospace industries
- Government agencies

Here are some of the ways CEA Tech can support your development:



Consulting and business intelligence

Security system and solution audits (aligning security levels with actual needs; implementation strategies; identification of threats and breaches)

Software security

Software security and reliability; identification of weak security links; design tools; risk assessments

System architecture for security

Intrinsically-secure architectures; secure integrated circuits (digital, RF, and near-sensor) including using advanced technologies (FDSOI, 3D); systems-on-chip; virtualization; secure embedded platforms

Security evaluation of systems and components

Multiple accreditations, including for the banking sector (Common Criteria, EMVCo, Visa, MasterCard)

Characterization

Evaluating system and component resistance to physical threats (fire, electromagnetic, laser, glitches, etc.); hardware cryptanalysis

Cryptography

Secure, effective implementation of cryptographic protocols; advanced cryptography (homomorphic encryption, pairing)

Communication and secure protocols

Contactless solutions; wireless communication (RFID, Wi-Fi, ultra wide band, ZigBee); network infrastructure; strong authentication; secure protocols for sensor networks

Big Data and data analysis; behavior analysis; data mining

Event-based early alert detection (e.g. cyber-attacks); business intelligence

Sensor (capacitive, pressure, etc.) systems and integration

Biometric systems (fingerprint, retina, iris); voice recognition

Nanoelectronics (PCRAM, OxRAM, CBRAM, MRAM)

Memory component reliability and robustness; security characterization of emerging technologies (FDSOI)

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