General information

Ro Technology *(ITALY)*

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Area of interest	Choose Y or N
○ Functional encryption and reduction of leakage (e.g., anonymization or obfuscation)	N
○ Ultra-lightweight cryptology and ultra-high-speed cryptographic algorithms including quantum cryptography	N
○ Physical cryptanalysis, including tampering, side channel, faults injection attacks, and security of tools for good software implementation and validation practices	Y
○ Authenticated encrypted token research for mobile payment solution	Y
○ Innovative cryptographic primitives and complementary non-cryptographic privacy-preserving mechanisms to enforce privacy	Y
○ New techniques, such as quantum safe cryptography, which are secure from quantum computers	N
○ Quantum key distribution	N
○ Automated proof techniques for cryptographic protocols	Y

Competencies

- *Organisation competencies*
  - Ro Technology designs and develop embedded systems, monitoring systems and applications for ICT, Security, Defense

- *Relevant European Projects*
  - **SafeCOP** *(ECSEL – Joint Undertaking 2015)*: safety-related cooperating cyber-physical systems, characterised by use of wireless communication and unpredictable operating environments.

- *Relevant National Projects*
  - **Seamless** *(MoD- PNRM 2015)*: Geo-referenced system for the acquisition of data over a secure, encrypted and energy-efficient WSN .

- *Specific relevant skills*
  - Embedded Systems, with particular focus on WSN, IoT and security
  - Communication protocols, ICT, SW/FW Design and development
  - Monitoring Web applications, OGC services, Requirements engineering, AIV