The main goal of the TISPHANIE project is to propose a cost/efficient and structured methodology, together with the related tools and evaluation process enabling the concerned users (MNOs, application developers, police laboratories, civil security operators) to assess rapidly the security of all major components embedded in personal devices (mobile handsets, PDAs, netbooks, PMR terminals) for critical or value-added applications.

**PROGRESS BEYOND THE STATE OF THE ART**

The TISPHANIE project has put in evidence new ways of attacking Mobile Platforms from the HW, SW or Cryptographic standpoints. It has developed new HW equipment enabling to assess the security of mobile devices as well as some efficient SW mechanisms proposing countermeasures against possible malicious SW injection in classical platforms such as Symbian, iOS or Android (some of them are classified).

**MAJOR PROJECT OUTCOMES**

- **Publications:**

- **Product(s) or Service(s):**
  At the end of the project, the following results are available:
  - several innovative equipment enabling to perform security assessment of Mobile HW platforms against e.g. side channel attacks such as power or electromagnetic analysis, fault injection by laser illumination or glitch injection. Some of them have been installed in the CIMPACA MicroPacks platform, a mutualized set of equipment hosted inside the buildings of the ENSM Saint Etienne in Gardanne, for the benefit of all interested industry,
  - a complete security analysis of main mobile SW platforms such as iOS, Android, Symbian and major associated frameworks (Java JEM2, OKL4 hypervisors),
  - an analysis of all efficient potential HW or SW countermeasures aimed at counter all major types of attacks against Mobile platforms,
  - an in-depth analysis of all major cryptoalgorithm used in Mobile Platforms (GSM/3G, Bluetooth, WiFi, Broadcast protocols),
  - a set of Forensics tools aimed at reconstructing, upon legal or judiciary requests, the content of some mobile platforms critical parts (e.g. Flash memory),
  - a quick and extensive methodology aimed at guiding Mobile Operators and/or Service Providers for assessing the security of Mobile Platforms within a reasonable risk analysis.

- **Job creation:** 3
- **Maintained job:** 10
- **Business creation:**
  Trusted Logic has developed in the project a new prototype of its Trusted Execution Environment and is currently proposing the productized version of it among the Mobile Chipset industry. Several major licensing agreements with world players have been concluded (confidential information) or are currently in discussion.