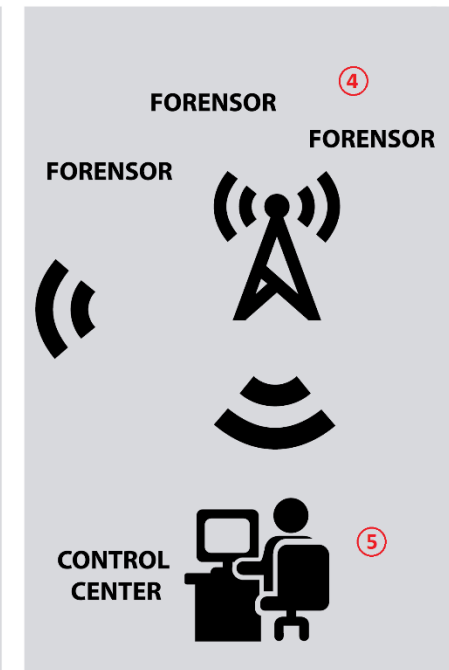
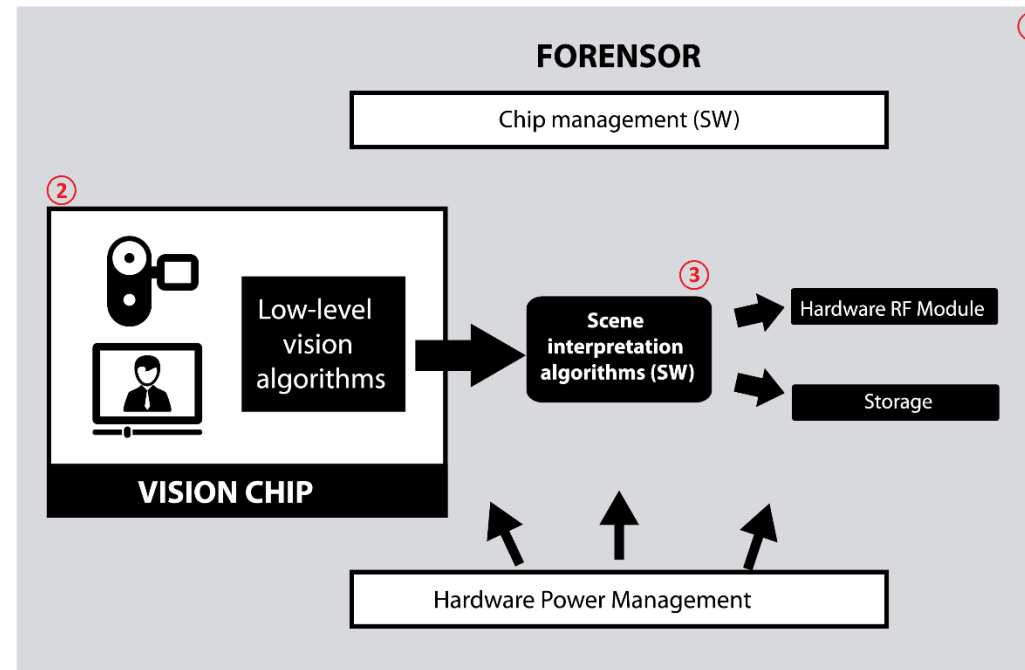




FORENSOR Project Overview

Title:	FOREnsic evidence gathering autonomous seNSOR
Acronym:	FORENSOR
Number:	653355
Start - End Date / Duration:	1 Sep 2015 – 28 Feb 2019 / 42 months
Funding scheme:	Innovation action (IA)
Funded under programme:	H2020 - EU.3.7. - Secure societies - Protecting freedom and security of Europe and its citizens
Topic:	Law enforcement capabilities topic 1: Develop novel monitoring systems and miniaturised sensors that improve Law Enforcement Agencies' evidence- gathering abilities (FCT-05-2014)
Total cost / EU contribution:	EUR 4 937 833,94 / EUR 4 043 546,25
Coordinated in:	Greece
Goal:	Develop and validate a novel, ultra-low-power, intelligent, miniaturised, low-cost, wireless, autonomous sensor (“FORENSOR”) for evidence gathering
Fixed EC Keywords:	Security, Sensor Equipments, Sensor Technology and Components
Free keywords:	evidence gathering, ultra low power, autonomous sensor, visual sensor, safe city, video surveillance, ethics, fundamental rights, Law Enforcement Agency

- **Vision Chip (2)** manufactured and validated
 - low-level algorithm developed and embedded into VC
 - 3 VC releases:
 - VC A, B (QVGA | 1.6 mW, 600 μW) and
 - VC C (VGA | 600 μW)
- **FORENSOR node (1)** integrated (base board: STM SecSoc dev. board)
 - High-level algorithms (scene interpretation) (3) developed and ported to base board
 - Secure communications (transmission of alerts and evidence) setup on H/W RF module (boards: STM NUCLEO-L152RE dev. board (base), STM SPIRIT1)
 - 2 node releases:
 - based on VC A (first platform) and
 - Based on VC C (final platform)
- **Virtual Sensor Network (VSN) (4)** S/W infrastructure developed (incl. security)
- **Server-based Application (SBA)** for the Control Center (5) developed with appropriate GUI
- **Legal/ethical:** frameworks analysed → requirements defined → impact assessment against requirements conducted → continuous monitoring of impact
- Various project dissemination and exploitation (incl. patent)



- **FORENSOR System (first platform)** tested in near real life conditions in a series of 3 Pilots / Use Cases:
 - UC1 Pilot – Illegal trafficking in desolate coastal area, Portugal
 - UC2 Pilot – Burglary at private house located in hamlet/village, Italy
 - UC3 Pilot – Unfrequented provincial road surveillance, Spain
- **Final platform to be tested in similar Pilots (phase II) plus 3 Field Tests:**
 - FT1 – Pedestrian and bicycle path surveillance, Italy
 - FT2 – Camp Surveillance, Greece
 - FT3 – People, Ships and Vehicle Surveillance, Cape Verde

