AGENZIA NAZIONALE
PER LE NUOVE TECNOLOGIE, L'ENERGIA
E LO SVILUPPO ECONOMICO SOSTENIBILE

BONAS

"BOmb factory detection by Networks of Advanced Sensors"

Project BONAS
"BOmb factory detection by Networks of Advanced Sensors"
N° 261685 Call FP7-SEC-2010-1
Funding scheme Collaborative project

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Head of Diagnostics and Metrology Laboratory
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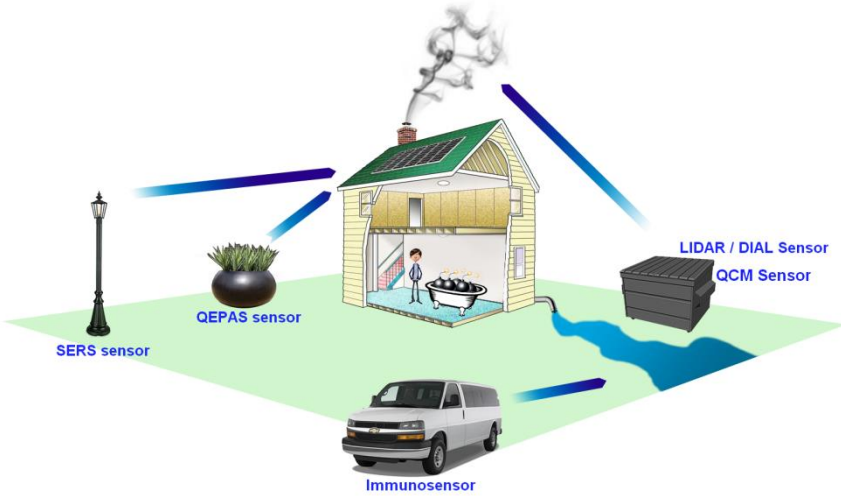

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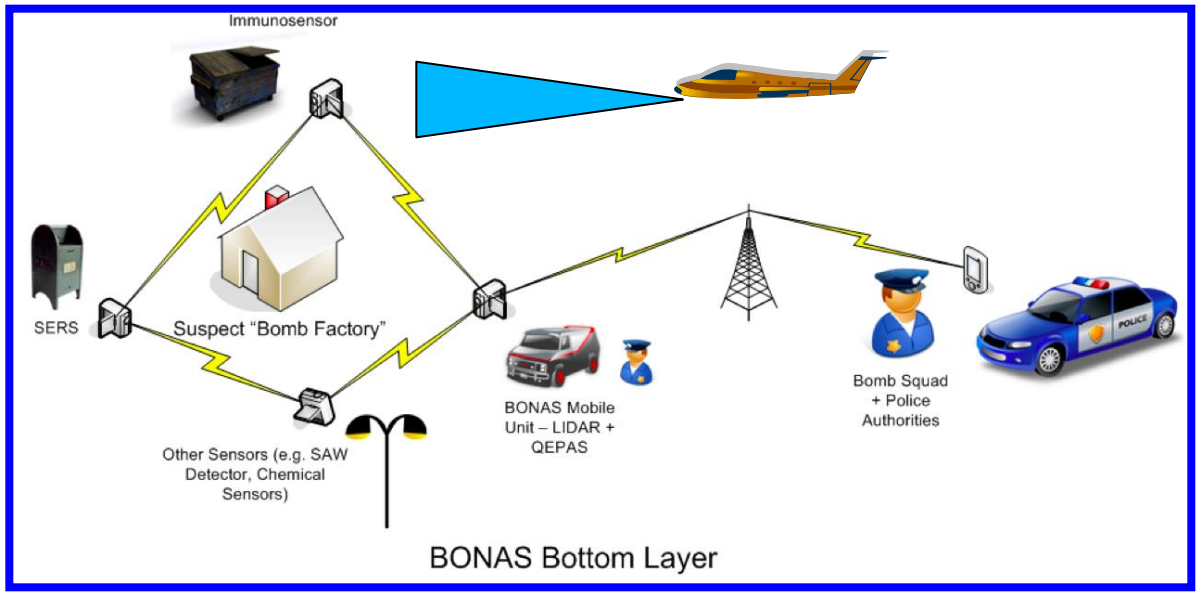
The BONAS's approach

The aim of **BONAS** project is to design, develop and test a novel wireless sensors network for increasing citizen protection and homeland security against terrorist attacks, in particular against the threat posed by **IED** devices.

The sensor network will focus on the detection of traces of precursors used in **IED production** (particulates, gases and/or waterborne) present in the environment surrounding the vicinity of a "bomb factory". The different sensors are specifically designed to be deployed in sensitive locations and easily camouflaged.



Starting date 01/04/2011
Duration 42 months
Presently completed

Project Cost	**€ 5.074.931,01**
EU fund	**€ 3.488.359,81**

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EMPHASIS & BONAS

Demonstration and Symposium

September 24-25, 2014, FOI Grindsjön, Stockholm, Sweden

How to Find Bomb Factories Joint Experimental Demonstration of Networked Sensors

The demonstration was performed at the test site of the Swedish Defence Research Agency 40 km south of Stockholm [September 24-25, 2014]

10 Sensors
2 C&C systems

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BONAS Achievements

- **Sensors**
  - Lidar
  - QEPAS
  - Handheld Raman
  - Electrochemistry
  - QCM

  High sensitivity and high discrimination rate
- **BONAS products**
  - 26 Deliverables
  - **5 Confidentiel UE**
  - **7 Restreint UE**
  - **1 Commercial product**
- **Advisory Board**
  - 10 members (7 States)
  - 2 Classified meeting
- **Priority list of Target compounds**
  - 29 Precursors (**16 Tested**)
  - 15 Explosives (**5 Tested**)
- **Tests**
  - Pratica di Mare Trials, Rome Italy (June 2014)
  - FOI Grindsjön, Stockholm, Sweden (September 2014)

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