FUSE-IT
Facility Using smart Secured Energy & Information Technology

PROJECT SUMMARY
Through growing connection to IT networks and to the Internet, building automation systems gain in flexibility, power efficiency, cost efficiency and upgradability. A downside is the increased exposure to blended (cyber-physical) threats. Built upon expertise from energy, facility, ICT and security domains, FUSE-IT solves this dilemma by designing a smart & secure Building Management System (BMS).

OBJECTIVES
Smart and secured BMS involving key innovative capabilities:
- Secured shared sensors actuators & devices
- Trusted federated energy & information networks
- Core building data processing & analysis
- Smart unified building management interfaces
- Full security Management Interfaces

BUSINESS VALUE
New business models:
- Building as a micro-grid (energy retail)
- Turnkey building efficiency & security management system
- Remote building monitoring services
- Full-remote building operation
- Multi-site operation services

EXPECTED RESULTS
- Core building data processing & analysis module enabling cross-domain building supervision
- Smart secure building sensor networks supporting permanent & temporary use-cases
- Building Information Model (BIM) covering energy, facility, ICT & security

Project leader
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Project website
http://www.senouci.net/FUSE-IT/index.htm
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PROJECT CONSORTIUM

START DATE OCTOBER 2014
END DATE DECEMBER 2017

WORK PACKAGES OVERVIEW

FUSE-IT PROJECT PARTNERS
- Large companies (4)
- SMEs (7)
- Universities (5)
- Others (4)

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DEMONSTRATORS
A set of 4 National and 1 International demonstrations will be carried out with the following objectives:

- **Turkish** Demo: Smart building 3D modelling & monitoring on Gazi Technopark
- **French** Demo: Cyber-physical attack on HVAC in a server room at Airbus Elancourt
- **Belgian** Demo: Flexible office management & reconfiguration on Imec’s HomeLab
- **Portuguese** Demo: Building energy & security management on Hospital S. João

The International Demonstration will be held on an international temporary business event and will cover all the project challenges: building efficiency, security, reliability and flexibility.