AGILE -
Adoptive Gateways for diverse Multiple Environments
Charalampos Doukas, Technical Manager - Project Coordinator
CREATE-NET, Trento, IT
ICT30–2015 Internet of Things and Platforms for Connected Smart Objects

• The Call: ICT 30 – 2015: Internet of Things and Platforms for Connected Smart Objects
• Deadline: April 14th 2015
• Budget: 49M
• Submitted: abt 150 proposals
• Accepted: 7 RIA, 2 CSA
Problem to solve...
AGILE OBJECTIVES

- Modularity
- Extensibility
- Device & Data Management
- Privacy - Data Provenance
- IoT Apps Ecosystem

Workflow recommendation
Graphical App Development

Community Engagement & Exploitation

- Diverse Pilots
- External Clouds
- AGILE Testbed

Snappy Ubuntu

ALLSEEN ALLIANCE
Open Mobile
OMA
IPSO Alliance

AGILE TESTBED

IoT-laB
CREATE-NET
AGILE Consortium – 17 Partners

- SMEs/Startups: 35%
- Industry/Large Enterprise: 29%
- Research: 24%
- NGO/Community: 12%
Total Score: 14.5
Excellence: 4.5

The proposed solution is targeted towards both industry and individuals and will form the basis of an ecosystem of IoT applications shareable among its users and developers.

A range of suitable Use Cases are identified which provide the clear context and operational complexity to drive the proposed innovation.

The research challenges underlying these developments are less developed.

Impact: 5.0

The expected impacts of delivering an IoT platform and ecosystem can be effectively met by the project thanks to its strong open source approach and its crowd and participative relays.

The proposal has the potential to achieve an economic impact through the ecosystem of AGILE users. The environmental impact of the project is well identified and convincing.

The project will demonstrate the application of the IoT technologies and use cases in delivering solutions that can assist in the protection of the environment and wildlife.

Communication and exploitation approaches are well structured.
Total Score: 14.5
Quality & Efficiency of Implementation: 5.0
The work plan is very well described with an effective breakdown of work packages, tasks, deliverables and responsibilities to achieve the project goals.
There is a high degree of complementarity amongst the consortium partners and there is a very good match between the experience and expertise of particular partners and their responsibilities in the project.
The critical risks are well identified and the mitigation measures are convincing.
The procedures for the competitive open calls are clear and well structured
Best practices

Product

Ecosystem

Use Cases

Community

Sustainability

Impact
AGILE ECOSYSTEM

DEVELOPERS/MAKERS

INDUSTRY M2M/IOT

STARTUP/ENTREPRENEURS

END USERS

Early Community involvement, Eclipse project proposal, IoT apps ecosystem, Maker’s Gateway version

Industrial GW - Air Monitoring Pilot, Smart Retail Pilot GW on a UAV – Open space monitoring

Open calls for Startups + SMEs for use cases & user adoption, Promotion to Accelerator programs

Self-tracking Pilot, Crowdfunding campaign IoT Testbed, IoT apps ecosystem, 3rd party apps (open calls)

Canonical Ubuntu
**AGILE Gateway**

- **Quantified Self-tracking**
- **Build Apps**
- **Share Data**
- **Collect/Manage Data**

**Open space monitoring**

- 300+ users
- **Crowdfunding campaign**

**AGILE IoT Testbed: 2500+ sensor nodes**

- Monitoring of Air, Land, Livestock, and Port

**Smart Space monitoring + fleet management**

- 5 locations
- **Analytics, Notifications**

**Smart Retail**

- **Open Calls**
- **Additional Use Cases**
Reference Implementations

- Eclipse SmartHome
- Eclipse Kura
- Ubuntu Snappy
- Node-RED
- RethinkDB
- fi-ware
- PaaS Enablers/APIs
- Modules
- Marketplace
- Snappy Ubuntu
Community Building

- Eclipse IoT Project
- Developers direct participation (RFCs, Competitions, etc.)
- Open Calls
- Crowdfunding campaign
### Workplan Implementation

#### M1 -> M18  SW/HW Development

#### M18 -> M36 Maintenance & Dissemination
Contact

- cdoukas@create-net.org

agile_iot