Platform, Services and Tools for Dynamic Data Linking, Processing and Management

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Why?

We believe in a seamless integration of different sensor networks and devices with cloud environments.
Where does it fit?
How does it answer the call?

Information and Communication Technologies (ICT)

i) A new generation of components and systems
   ICT 1 (2014): SmartCyber - Physical Systems
   ICT 2 (2014): Smart System Integration

iii) Future Internet
   ICT 6 (2014): Smart optical and wireless network technologies
   ICT 7 (2014): Advanced Cloud infrastructures and services

“Cloud computing research will be oriented towards new computational and data management models (at both infrastructure and services levels) that respond to the advent of faster and more efficient machines, rising heterogeneity of access modes and devices, demand for low energy solutions, widespread use of big data, federated clouds and secure multi-actor environments including public administrations.”
What?

The PaaS solution consists of the following set of lightweight Web based tools:

1. Device/Fog Proxy
2. Discovery Service
3. Cloud Data Service
4. General Notification Service
5. Adaptive Notifications Recommender System
6. Execution Service
7. Monitoring Service
8. Agile Deployment
9. Security Context
How?

• Reusing previous proposal submitted to FP7-ICT-Call 10
  – Eligible for financing, but hold on Reserve list
  – Finally, not financed
  – 3 Academia + 2 SME + 1 Large

• Current experience in Platform-as-a-Service developed in mOSAIC, ModaClouds or SPECS FP7-financed projects
What are we looking for?

- SME / Large companies able to propose new use-cases in order to broaden the applicability of the proposed platform and tools

“Provide Union wide support for innovation in SMEs.”
Thank you

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ICT – 7 Advanced Cloud infra & services

Direction 3: Cloud security:

b: “Tools and techniques to increase trust, security and transparency of cloud infrastructures and services”
Main Goals

• Business Process Management as a Service:
  – Ensure integrity, confidentiality, reliability, and policy compliance for it

• Develop the tools, methodologies and infrastructure for multi-cloud environments:
  – to allow SME’s to leverage the advantages of cloud for their business processes, without compromising vital security aspects
Current status of the proposal

• Initiated together with U. Wien (sci. leader)
• Selected ‘large project’
• Current partners:
  – 4 universities
  – 1 Cloud provider
  – 2 software companies (1 will be the coordinator)
• In search for use cases providers
  – proof-of-concept apps
• Negotiation with a standardization body