



**A European cloud observatory supporting
cloud policies, standard profiles and services**

Engagement with Call 5, 8, 10 & CIP projects



◆ ICT2013

- ◆ Contribution & Presence on Information stand: 22
- ◆ Participation at Networking session:
- ◆ Project overview & impact on website
- ◆ A-Z Guide to Call 8 projects

Driving the uptake of cloud in Europe

**The cloud way is the smart way.....
.....but it needs to be secure, fair and interoperable.**



**Accelerating and increase
the use of cloud computing
across the public and private
sectors in Europe**

**Supporting international
efforts on interoperability
and portability**

Multi stakeholder dialogue to increase commitment

Transparency

Openness

Compliance

CloudWATCH Outputs



Sustainable CloudWatchHUB.eu

promoting smart cloud services, skills and standards



Legal Information and Tips and Socio-Economic Analyses



Enterprises – ICT & trade associations – R&D initiatives – govt. & public authorities
Community Engagement: Research & educational institutions – standards groups – policy bodies & makers



Use Case Portfolio – enterprise, government, research



Common Standard Profile Delivery



→ Standard Development Organisations

→ Software deployed in the test bed



Certification Recommendations



Dissemination, outreach & online forums

Concertation Meetings, Business Events, Government and Public Sector Events, Technical Events

2 Use Case Workshops

6 Profiling & Test Cases Workshops

Our Partnership Our Network



Consortium Network (chapters, subsidiaries & ICT associations)



DIGITAL EUROPE members represent 10 000 companies employing 2 million citizens and generating EUR 1 trillion in revenue.



Standards groups, research, government, enterprise and media



EU Privacy council & Legal expertise in 15 countries worldwide



User base: 22,000 in 50 countries; national government & funding agencies in 30 EU countries.



400+ collaborative partnerships with HE and research 150 partnerships with



Large German public administration network, BITKOM, SIBB & German Trusted Cloud



140 Members, 12 EU Chapters, 60 global chapters



80 Corporate members, 10,000 companies and Cloud Council

Building on support

European Research



Enterprise



Government



Standards Initiatives



Open Source Communities



Setting out the right way

Insights from thought-leaders

Strong support

Wide community

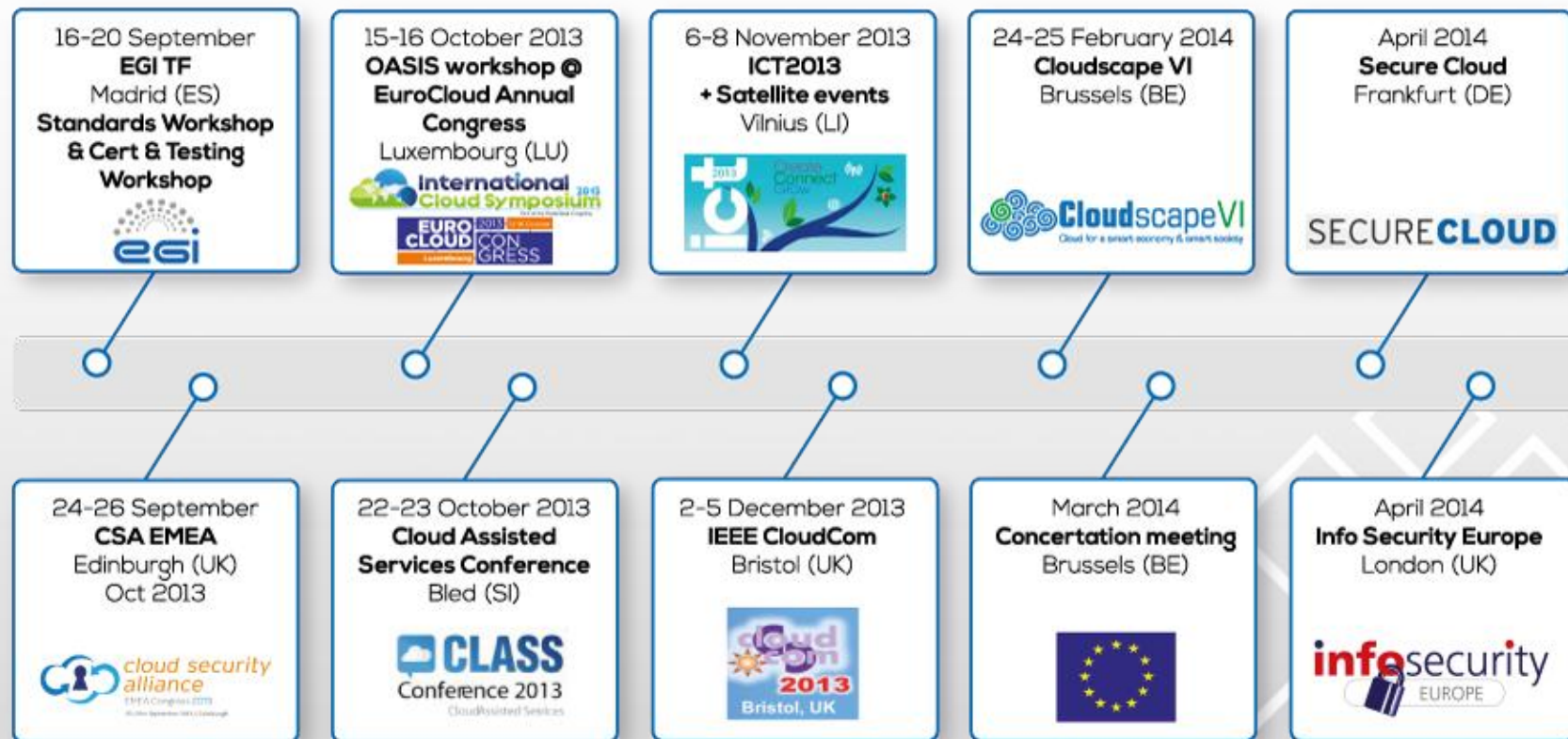
Benefits

Best practices

Big issues

Meet us at...

Where we'll be in the next six months



Meet us at...

Monday, **November 25th** 2013 | **3 p.m.** | **Lloyd Hotel & Culturele Ambassade** | Oostelijke Handelskade 34 1019 BN | **AMSTERDAM**

SAVE THE DATE

ICT LEGAL
CONSULTING

EB BALBONI, BOLOGNINI & PARTNERS

www.ictlegalconsulting.com

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*Athens Berlin Brussels Istanbul Lisbon London Madrid Moscow New York Paris San Francisco São Paulo Sydney Vienna Warsaw *partner law firms

INVITATION

CLOUD COMPUTING: LEGAL TIPS

What companies (especially SMEs) need to check before entering into a Cloud Service Agreement

Meet us at...



Cloudscape VI

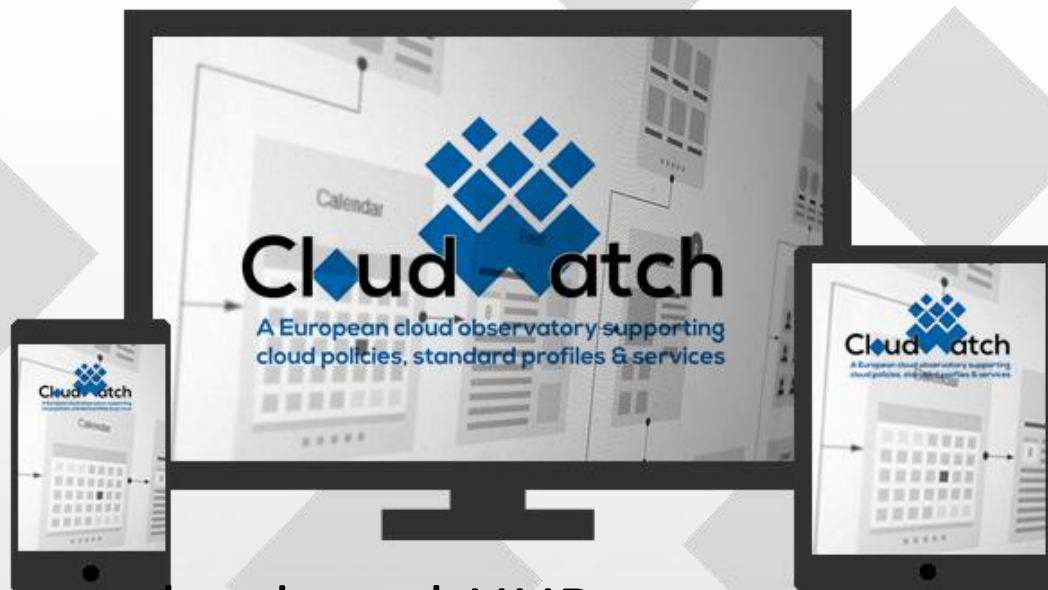
Cloud for a smart economy & smart society
24-25 February 2014, Brussels, Belgium

Cloudscape VI is for **public and private sector IT professionals** who need to gain **cost and energy efficiencies**, help researchers accelerate discovery, provide better **citizen services** and gain a **competitive edge** for their businesses in the global marketplace.

Answering your questions and concerns: What are the best ways of assessing cloud offers on the market today? How do we define and measure **energy efficiency**? How easy is it to **switch provider** or just simply stop using it? Is your **data protected and secure**?



Tell us about what you're doing in the cloud



◆ www.cloudwatchHUB.eu



◆ <https://twitter.com/CloudWatchHub>



◆ <http://linkd.in/1eLoBjl>

◆ info@cloudwatchhub.eu



Funded by the European Commission
Framework Programme 7
DG Connect
Software & Services, Cloud

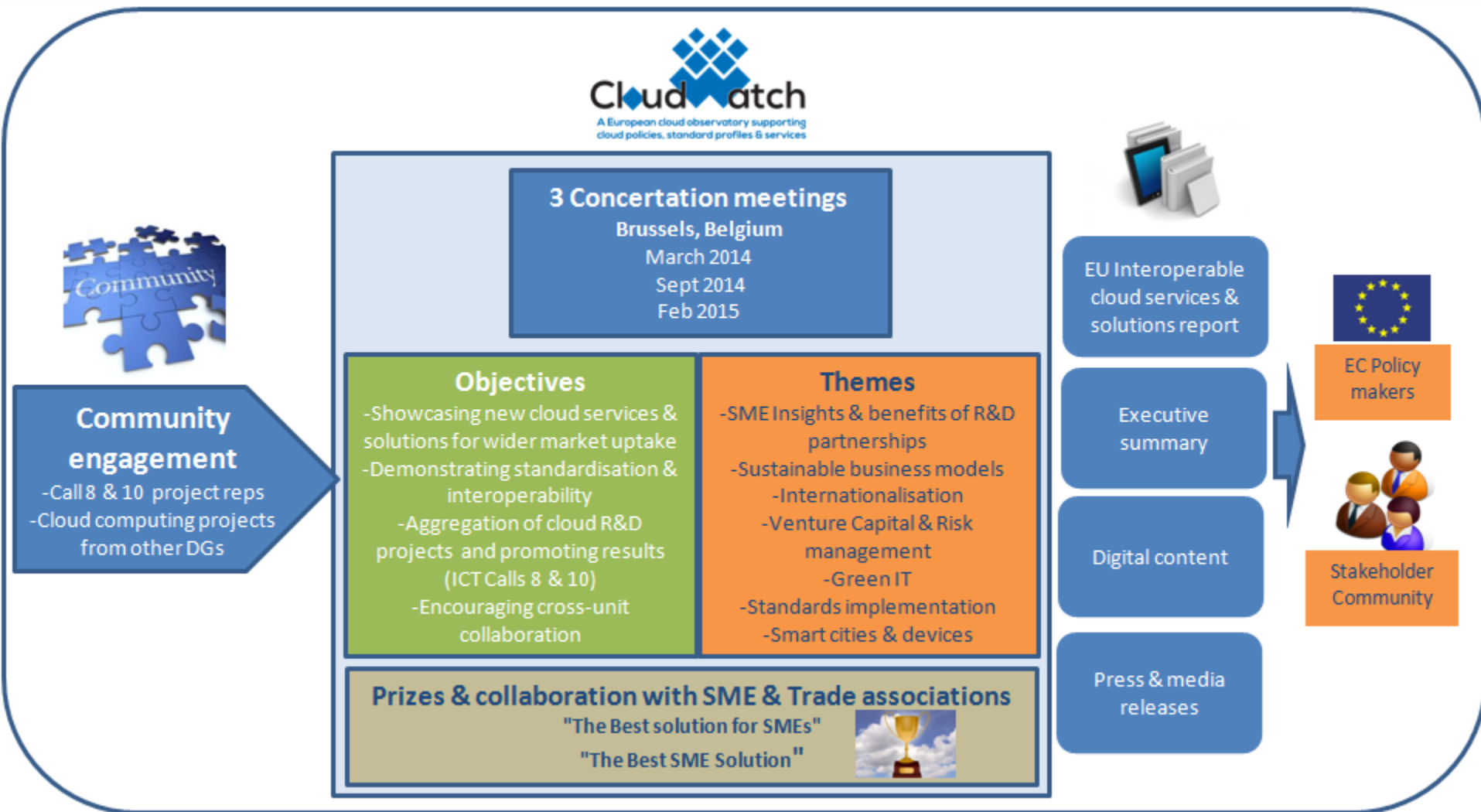
Project Type:
Coordination &
Support Action

24 Months
1 September 2013 -
31 August 2015

Contract No. 610994



Supporting and promoting European R&D cloud initiatives through 3 Concertation meetings



What's the Smart Way for Europe?

Trusted, secure, fair and interoperable cloud services and solutions

- ◆ Europe is creating, connecting and growing in the cloud
- ◆ Creating a market of cloud and open source services to support innovation in Europe





Building the Environment for the
Things As A Service

Contribution to the EU Market

- ◆ The BETaaS project provides a new platform for services which will enable:
 - ◆ Simplified Application creation using the TaaS (Thing as a Service) abstraction layer that facilitates interaction with services provided by things;
 - ◆ Simplified management of different underlying things ecosystems assuring interoperability;
 - ◆ Things Management Framework providing extended capabilities (Security, Dependability, QoS Context Awareness, Semantics and Big Data) on the cloud (independent local clouds and distributed clouds).

Who will benefit from BETaaS?

- ◆ Developers and software development companies
- ◆ HW Vendors (sensors, devices, boards, electronic devices and components, tools, other hardware, etc.)
- ◆ IoT (M2M) Platform vendors, and companies developing management software and platforms for the Internet of Things and M2M
- ◆ Service Providers (SaaS, PaaS, BaaS; Telco and Utility Companies)
- ◆ End Users (application users)

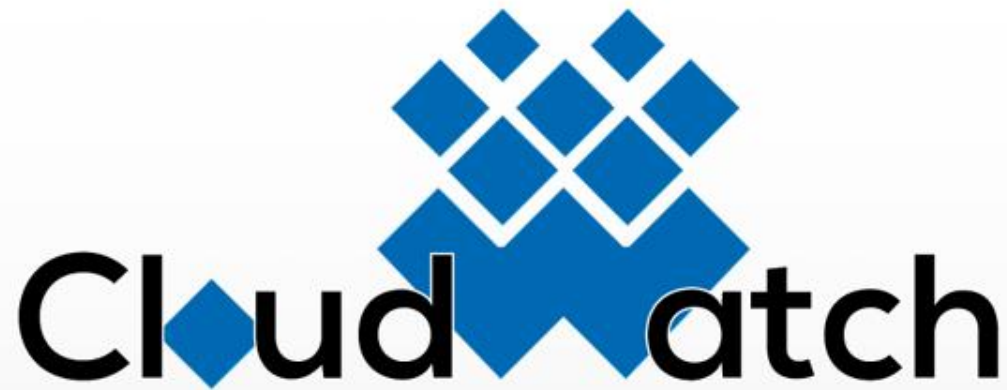
Contributions and Relationship with Standards

- ◆ In the 'Interaction with Things' field, related to the conceptual model used in BETaaS:
 - ◆ ETSI M2M
 - ◆ oneM2M
- ◆ In the 'Cloud Interaction' field, related to the sharing of resources with external clouds:
 - ◆ OCCI



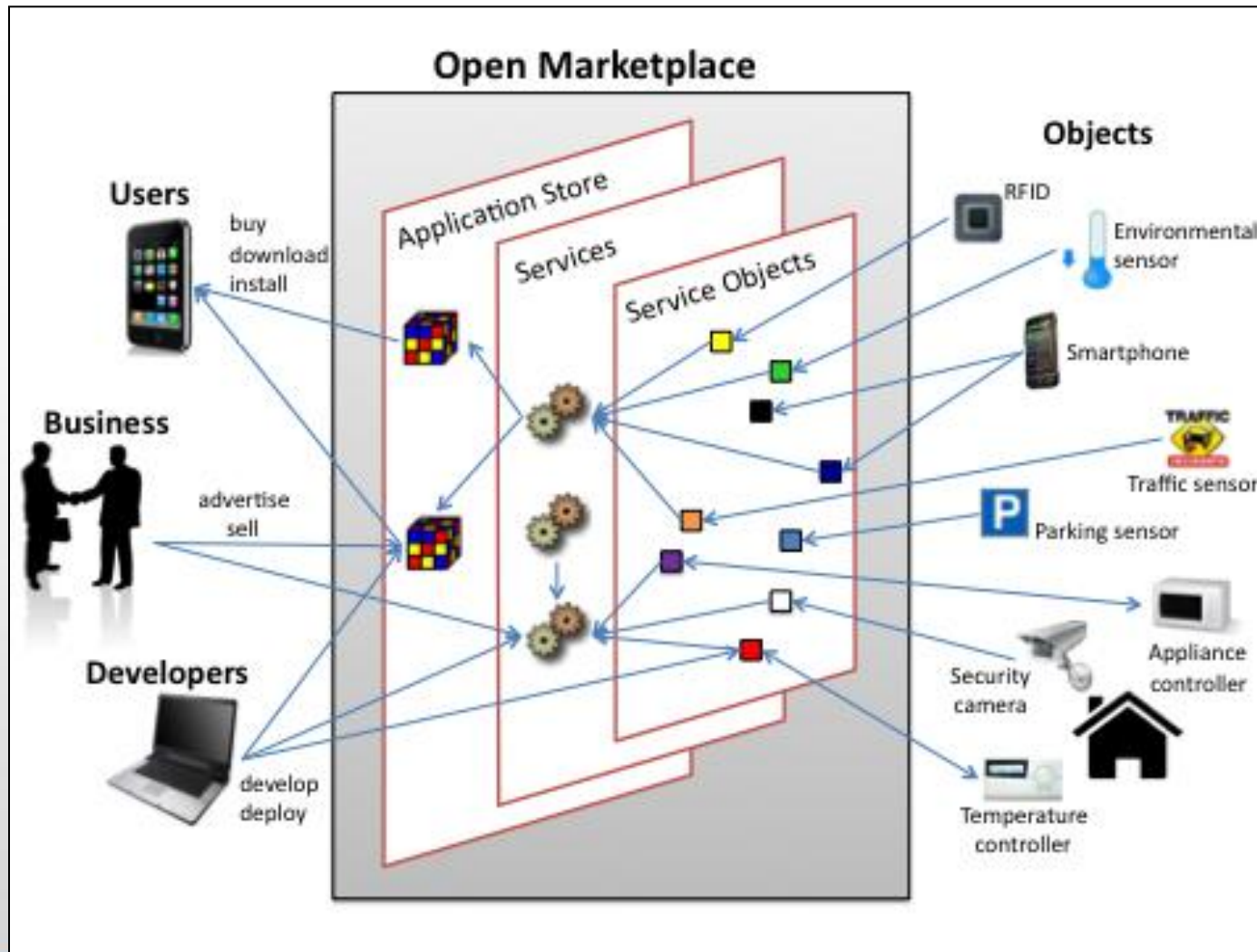
“Cloud computing can be viewed as a means of reducing cost, increasing revenue, improving business agility, and enhancing the total customer experience.”

Joe Weinman, Senior Vice President, Telx, IEEE Intercloud Testbed executive committee & author Cloudonomics



Collaborative Open Market to
Place Objects at your Service
www.compose-project.eu/

COMPOSE – A Services Objects Marketplace



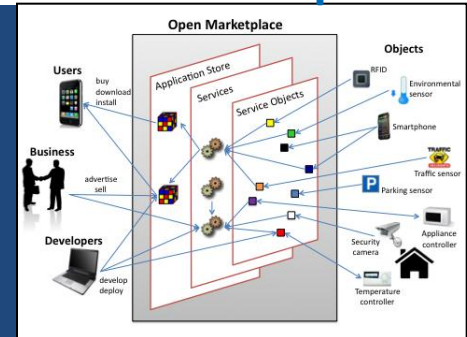
- ◆ Managing IoT objects as a service
- ◆ Designing and Executing services based on available IoT objects
- ◆ Leveraging an IoT enabling middleware layer (PaaS)

compose

COMPOSE – A Services Objects Marketplace

◆ Managing IoT objects as a service

- ◆ Registration, object and interaction virtualization, maintenance, accounting, knowledge aggregation and dispatching



◆ Designing and Executing services based on available IoT objects

- ◆ SDK to easily develop and deploy services based on Internet connected Objects
- ◆ Runtime environment (for both servers and mobile devices) to dynamically configure and execute services

◆ Leveraging an IoT enabling middleware layer (PaaS)

- ◆ Build on existing and forming technology to provide end-to-end eco-system for IoT
- ◆ Distributing system functionalities
- ◆ Seamless integration with a plethora of objects by abstracting them into service objects ensuring dependability and traceability

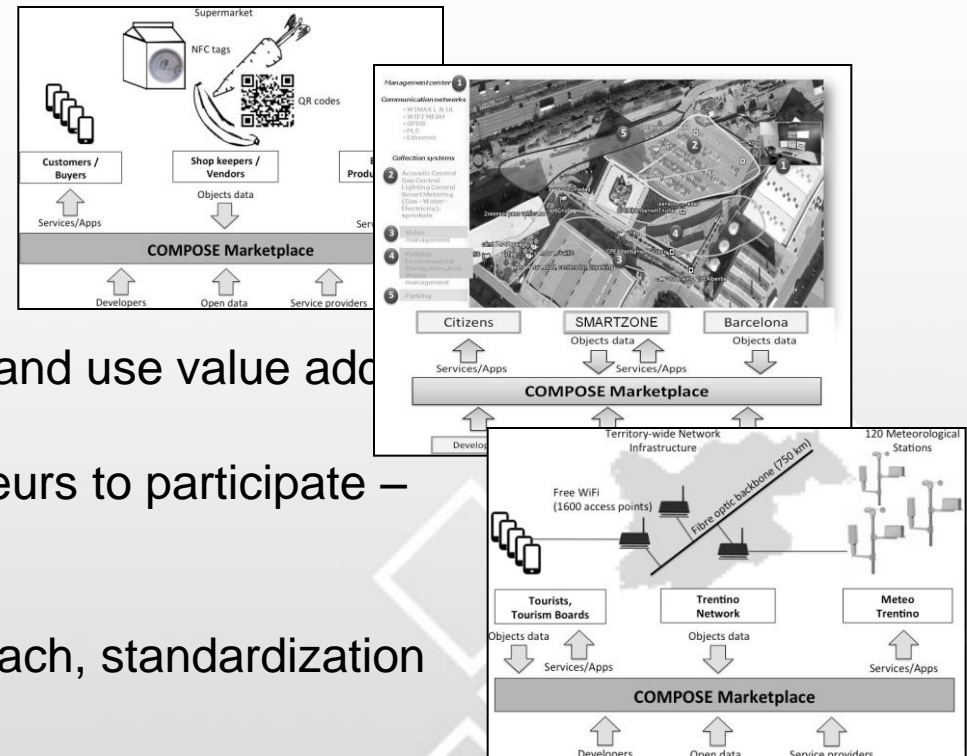
compose

COMPOSE Impact

Complete Ecosystem for value added services based on Service Objects



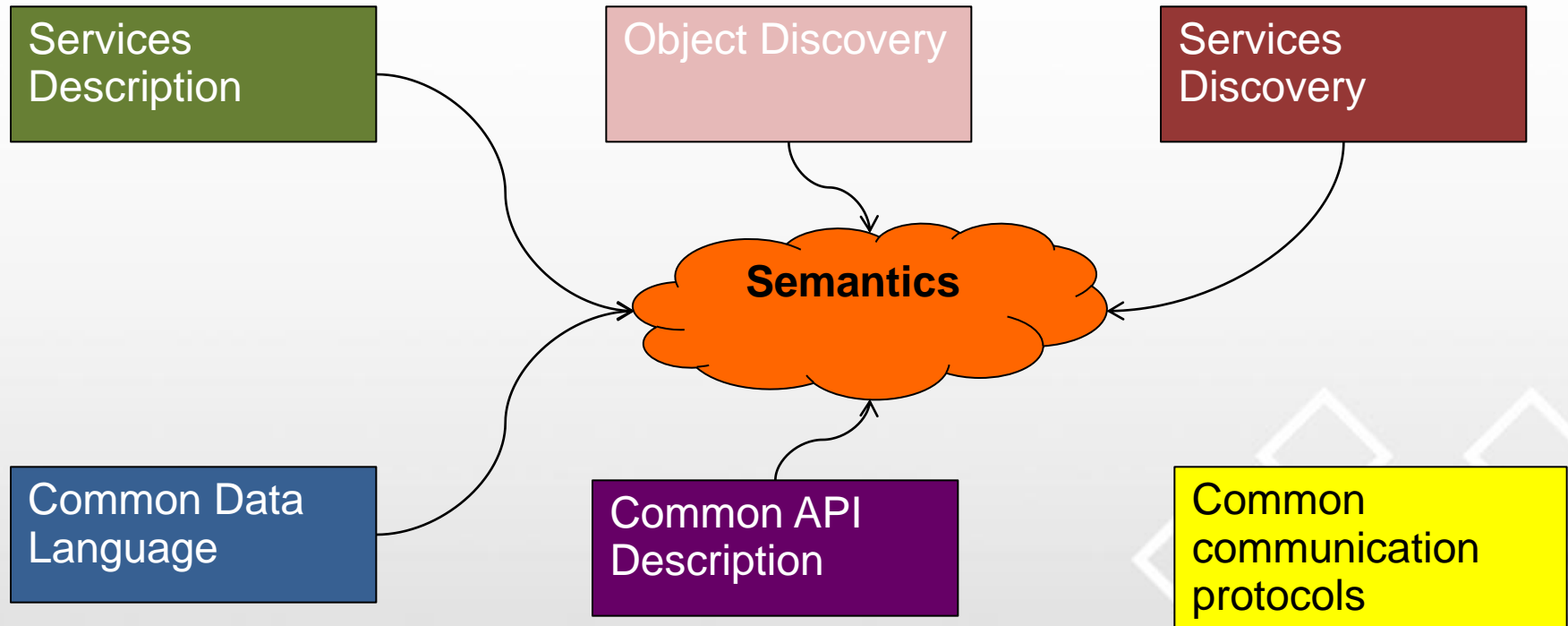
Platform and technology adoption in many IoT domains: smart city, augmented shopping



Lower barriers to develop, select, combine and use value added services

- Open the door for SMEs/Web entrepreneurs to participate – leading to higher innovation
- Integrate IoT and IoC through the IoS
- Stimulate innovation: open source approach, standardization and open interfaces
- Move IoT into the mass market
- Introduce novel business models based on the Objects Market concept

COMPOSE and the Interoperability Challenges



COMPOSE approach: Do not re-invent the wheel!
but form a group for evaluating existing solutions/propose

What's the Smart Way for Europe?

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“Cloud computing helps us benefit from the data revolution and is a gift to our economy”

Neelie Kroes, EC Vice President





Hardware and network-enhanced
software systems for cloud
computing

2012 – 2015

www.harness-project.eu

Integrating heterogeneous hardware and network Technologies into data centre platforms

- ◆ Green Solutions - Vastly increasing performance, reducing energy consumption
- ◆ Reducing costs - lowering cost profiles for important and high-value cloud applications such as real-time business analytics and geosciences.
- ◆ Enabling providers to offer new levels of service to cloud applications while opening a new market to the purveyors of specialised hardware and network technologies.



HARNESS



Open Service Platform for the Next
Generation of Personal Clouds

www.cloudspaces.eu

The project contribution

- ◆ The Cloudspaces project **lets users retake the control of their information.**
- ◆ Cloudspaces deals with **interoperability** (vendor lock-in) **and privacy issues** (privacy-aware data sharing)
- ◆ This project provides a **high level service infrastructure for third-party applications** that can benefit from the Personal Cloud model.

Who benefits from the project

- ◆ **SMEs and Corporations** will take advantage of an adaptable and secure Cloud Storage.
- ◆ **European IaaS providers** will benefit of deploying new cloud storage services based on OpenStack Swift (StackSync)
- ◆ **Software providers** will be able to integrate Personal Clouds and Applications.
- ◆ **Open source community** can contribute to the project and benefit from Cloudspaces developments.

Open standards

- ◆ The project overcomes vendor lock-in risks thanks to **open interoperability APIs (Store, Share and Persistence)**
- ◆ **StackSync**, a brand new **open-source Personal Cloud**, adaptable and secure, specially designed for business.
- ◆ Cloudspaces contributes to the **OpenStack community** (the major Cloud Storage open-source community)
- ◆ Features developed in the Cloudspaces project are licensed as **GNU-GPL v3**.



Model Based Cloud Platform Upperware

www.PaaSage.eu

FP7 project running from 01-OCT-2012 until 30-SEP-2016

PaaSage Objectives



Delivering

- ◆ an open and integrated platform to support both design and deployment of Cloud applications,
- ◆ together with an accompanying methodology that allows model-based development, configuration, optimisation, and deployment of existing and new applications,
- ◆ independently of the existing underlying Cloud infrastructures.

PaaSage is for...



◆ Software Application **Developers**

- Facilitating the application migration to Clouds
- Developing once and deploying on many Clouds

◆ Cloud **Providers**

- Easing the move to their infrastructure and technology

◆ Cloud Solution **End-Users**

- Reducing vendor lock-in
- Accessing more performant solutions

PaaSage is Open Source

- ◆ PaaSage Open Source components in Eclipse
- ◆ Supported by an active OS Community
- ◆ In collaboration with
 - MODAClouds (www.modaclouds.eu)
 - ARTIST (www.artist-project.eu)



Cloud Computing era

- Deliver computing as a service
- Massive uptake by business, academic, scientific domains
 - On-demand (“pay-as-you-go”)
 - Ubiquitous access
 - Cost-efficiency
 - Very large scale

Challenge: manage and schedule vast resources to diverse applications





Elastic resource allocation

- Elasticity: Ability of the system to expand or contract dedicated resources according to an objective function
 - Infrastructure, platform and software (?) levels
 - True pay-as-you-go
 - Application performance
 - Provider gains
 - Has been identified as one of Cloud's biggest challenges (and opportunities)



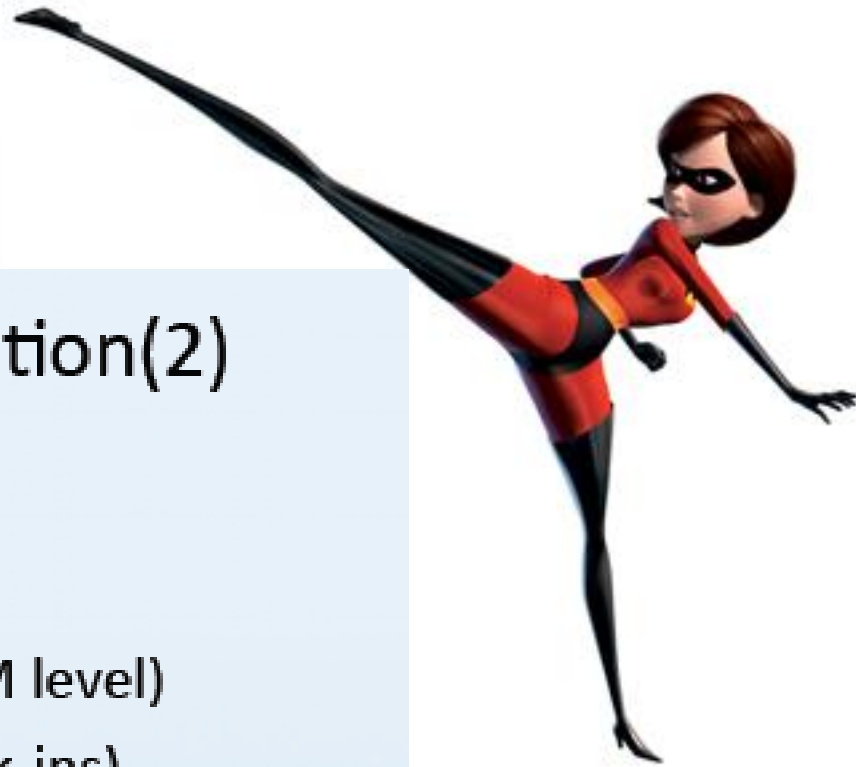
Elastic Resource Allocation(2)

Suboptimally handled to-date:

- Manual (e.g., Amazon)
- Coarse-grained (usually at the VM level)
- No wide applicability (vendor lock-ins)

Elasticity modeled as single-dimension property

- **Resource, cost and quality**
- **Customization**



CELAR Vision

Provide elastic resource provisioning

- Fully automated
 - No manual setup
- Fine-grained
 - Not strictly at VM-level
- Real-time
 - Adaptive to changes in load, infrastructure and objective function
- Standards- and open API-based
 - Completely OPEN-SOURCE tools



CELAR Approach

- Complete software stack to elastically manage and allocate cloud resources
 - Programming level: c-Eclipse
 - Application description
 - Cloud IS
 - Monitoring level:
 - cost-evaluation
 - cross-layer monitoring
 - Platform level
 - Utilize cost, quality and application requirements
 - Decision module
 - Middleware to support elastic expand-contract over any IaaS
- Cloudification framework
 - One-step application installation and elasticity provisioning



CELAR outcome: methods-tools



CELAR outcome: Vendor neutrality

Deployment over two distinct Cloud providers

- ~Okeanos open source IaaS
- FlexiScale public platform
 - Plus Flexiant's in-house data-centre
 - Increased API and platform customization capabilities



CELAR outcome: Applications

- Two exemplary applications:
- On-line gaming
 - Policy game, cloud-based
- Scientific Computing
 - Translational Cancer Detection pipeline
- Different runtime and resource requirements
- Verification of the technology in a real world context



CELAR project facts

Project Overview

Type: Specific Targeted
Research Project

Budget: €3.47 M

Duration: 36 months

Project coordinator

ATHENA Research and Innovation
Centre in Information,
Communication and
Knowledge Technologies

Website: celarcloud.eu

Partners

ATHENA R.C. in ICKT, Greece

University of Cyprus, Cyprus

Vienna University of Technology,
Austria

Greek Research and Technology
Network S.A., Greece

Playgen, United Kingdom

Institute of Cancer Research,
United Kingdom

Sixsq Sarl, Switzerland

Flexiant Limited, United Kingdom

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Model-Driven Approach for Design and Execution of Applications on Multiple Clouds

www.modaclouds.eu

MODAClouds & EU market of services

Provides

- ◆ methods
- ◆ a decision support system
- ◆ an IDE
- ◆ a runtime environment

Supporting

- ◆ High-level design
- ◆ Early prototyping
- ◆ Semi-automatic code generation
- ◆ Automatic (re)deployment
- ◆ Monitoring and self-adaptation



for applications
on Multi-Clouds
with guaranteed QoS

MODAClouds – benefits

- ◆ **Who will benefit from the new services**
 - ◆ **Decision makers**
 - ◆ **Developers** of applications and services expected to consume Cloud services
 - ◆ **Operators of applications and services** consuming Cloud services
- ◆ **How can benefit from the new services**
 - ◆ Support for **decision making** in migration towards Clouds
 - ◆ **Independence** from the cloud service provider
 - ◆ **Monitor** the services and measure their **quality**

MODACloud for an open & interoperable future

◆ Open-source code repositories

- ◆ Build own repositories: CloudML, LINE, Monitoring Platform, MODAClouds IDE
- ◆ Enhance existing ones: Csparql, Modelio, Paladio, Space4Cloud, mOSAIC, Cloud4SOA

◆ Open standards

- ◆ Implement emerging standards like TOSCA
- ◆ Promote CloudML as an open standard

◆ Interoperability

- ◆ Models of Cloud services at design time
- ◆ Study and propose data migration techniques



Managing Risk and Costs in Open Source Software Adoption

www.modaclouds.eu

The project contribution

RISCOSS develops a risk management based methodology to facilitate the adoption of OSS into mainstream products and services

- ◆ Using advanced techniques, RISCOSS develops innovative tools and methods to identify, manage and mitigate risks of integrating third-party OSS

Who benefits from the project

- A wide range of key players in OSS ecosystems:
- ◆ SMEs: critical support to OSS adoption processes
 - ◆ large enterprises: reconciliation of different viewpoints in OSS adoption
 - ◆ public organisations: improved transparency in OSS adoption decision-making
 - ◆ OSS communities: improved quality assessment programs for the OSS components offered

Open standards

- ◆ Contribution to OSS: consideration of risks in OSS adoption
- ◆ Interoperability: open platform supporting integration of new communities and components





Universal Quality Assurance and Control
Services for Internet Applications

Comprehensive and quantified perspective of Software Quality

- ◆ The U-QASAR will develop Internet Services for monitoring the different stages of the software development process, interoperating with the existing applications and systems to provide quantitative information about the **quality** of each process, the project as a whole and the resulting products.
- ◆ This will introduce a high level of automation in the Software Quality Management (SQM) process avoiding the traditional problems of data gathering and analysis in traditional measurement and SQM processes.
- ◆ The methodology and services developed will be context sensitive and will re-adjust the quality model whenever the context changes.
- ◆ Creating a new methodology for gathering and exploiting data about the progress and quality of software development projects independently of the context in which they are carried out.

A strengthened industry in Europe for software-based services offering

- ◆ U-QASAR will have a bearing on the quality of the actual and new Internet Services and applications, contributing to make them more reliable, trustworthy and robust, thus the strength of software-based services industry will be improved in Europe.
- ◆ Also, the project will produce an easily accessible solution because of its low cost. Therefore, services providers will be able to minimize their development cycles costs and duration, being then more competitive by offering more services at a lower cost and higher quality.

Standardized software quality metrics model

- ◆ Will participate in the normalization effort performed by the European Committee for Standardization (CEN) in the domain of Software Engineering, particularly in Software Quality Assurance and Control.
- ◆ Other standards that are of particular interest for U-QASAR are the ones related to semantic services, such as RDF and OWL (set by W3C).
- ◆ U-QASAR will make efforts for contributing to the extension of such standards and specifications mainly in the areas of:
 - ◆ Valid Software Metrics Models for distributed teams, with volatile requirements and technologies.
 - ◆ Application of Agile Methodologies in complex environments and the necessity of SQA activities in such contexts.



**Define your application
once, deploy it at the full
spectrum
of the Clouds**

What's the Smart Way for Europe?

Trusted, secure, fair and interoperable cloud services and solutions

Supporting standardization, open source development models and international collaboration



Advanced Software Engineering



Cloud Computing



Internet of Services

“As the concepts behind cloud computing have moved from an academic conversation to an economic reality, it is important to take a scientific approach and constantly refine this based on latest advances in technology and lessons learnt in the field.”

Joe Baguley, CTO EMEA, VMware &
CloudWATCH Business Innovation &
Global Interoperability Expert Group





CloudWATCH SUCRE

SUpporting Cloud Research Exploitation



HELLENIC REPUBLIC
National and Kapodistrian
University of Athens



Singular Logic



CloudWATCH is funded by the European Commission Framework Programme 7
DG Connect Software & Services, Cloud. Contract No. 610994



The SUCRE approach

- ◆ **Use cases** of Open Clouds in high-impact domains
 - ◆ Public Sector
 - ◆ Private Healthcare Provisioning Services Sector
- ◆ Tools and mechanisms for **Collaboration between Japan and the EU**
 - ◆ SUCRE EU-Japan Experts Group
- ◆ **Dissemination media**
 - ◆ SUCRE portal
 - ◆ SUCRE CloudSource Magazine
 - ◆ SUCRE videos
- ◆ **SUCRE Networking Events**
 - ◆ Workshop on Clouds in the public sector
 - ◆ Workshop on Clouds in the private healthcare provisioning sector
 - ◆ Young researchers forum
 - ◆ EU-Japan workshop

Key beneficiaries

- ◆ SUCRE embraces and supports **two high-impact communities**
 - ◆ Public Sector
 - ◆ Private Healthcare Provisioning Sector
- ◆ Furthermore, SUCRE facilitates interaction between **academia** and **industry**, as well as among industry stakeholders

SUCRE contributions

- ◆ **State-of-the-art and comparison analysis** reports on the use and adoption of Open Clouds in
 - ◆ the Public Sector, and
 - ◆ the Private Healthcare Service Provisioning Sector
- ◆ **Primer on the adoption and checklist for the successful implementation** of Open Clouds in the above areas



PROSE

Promoting Open Source in European Projects

Contribution

- ◆ PROSE promotes Free/Libre/Open Source Software (FLOSS) for EU ICT projects
- ◆ Removes legal and business obstacles of FLOSS



Who Benefits?

- ◆ European R&D projects gain access to expertise and knowledge on FLOSS.
- ◆ Extends the lifetime and sustainability of EU ICT Software.
- ◆ Enabling SMEs to gain access to EU state of the art ICT software.

Contribution to Open Source

- ◆ Create and manage a shared platform for FLOSS, capable of generating the required feedback loop;
- ◆ Develop a training program that provides knowledge and learning about this shared platform, as well as legal and business aspects regarding the adoption of FLOSS;
- ◆ Execute a dissemination program to increase awareness of the advantages of adopting a FLOSS-driven model in ICT projects.



Energizing Synergies and Interoperability Among Open Cloud Collaborative R&D Projects



OCEAN is a project funded in part by the FP7 Programme of the European Commission, coordinated by Fraunhofer.



www.ocean-project.eu
Contact Yuri Glickman - ocean-project@ow2.org



OCEAN Project Structure

Open Cloud Directory

Registry of Open Cloud assets
Technical & license information
Registry of Open Cloud projects

www.ocdirectory.org

Quality and Testing Services

Multi-platform builds and tests
Multi-node testing scenarios
Quality Assurance

Interoperability Framework

Open standards compliance
Cloud Reference architecture
Open Cloud roadmap

Open Cloud Plugfests

Joint events with ETSI, SNIA, OGF
Interoperability demos and tests
Market adoption initiatives



Open Cloud Directory



[Home](#)
[Add Cloud Asset](#)
[Cloud Assets](#)
[Projects](#)
[Organizations](#)
[About the Project](#)
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Welcome to Open Cloud Directory

Here you can find information about the key outcomes of Open Cloud projects. We invite you to create an account and publish information about your Open Cloud project and its results.

Search the Cloud Assets



Popular Tags

Web Services

Java

IDRE



A Novel Programming Paradigm for the Cloud

Cloud-TM aims at defining a novel programming paradigm to facilitate the development and...



Open Computing Infrastructures for Elastic Services

After decades in which companies used to host their entire IT infrastructures in-house, a major...

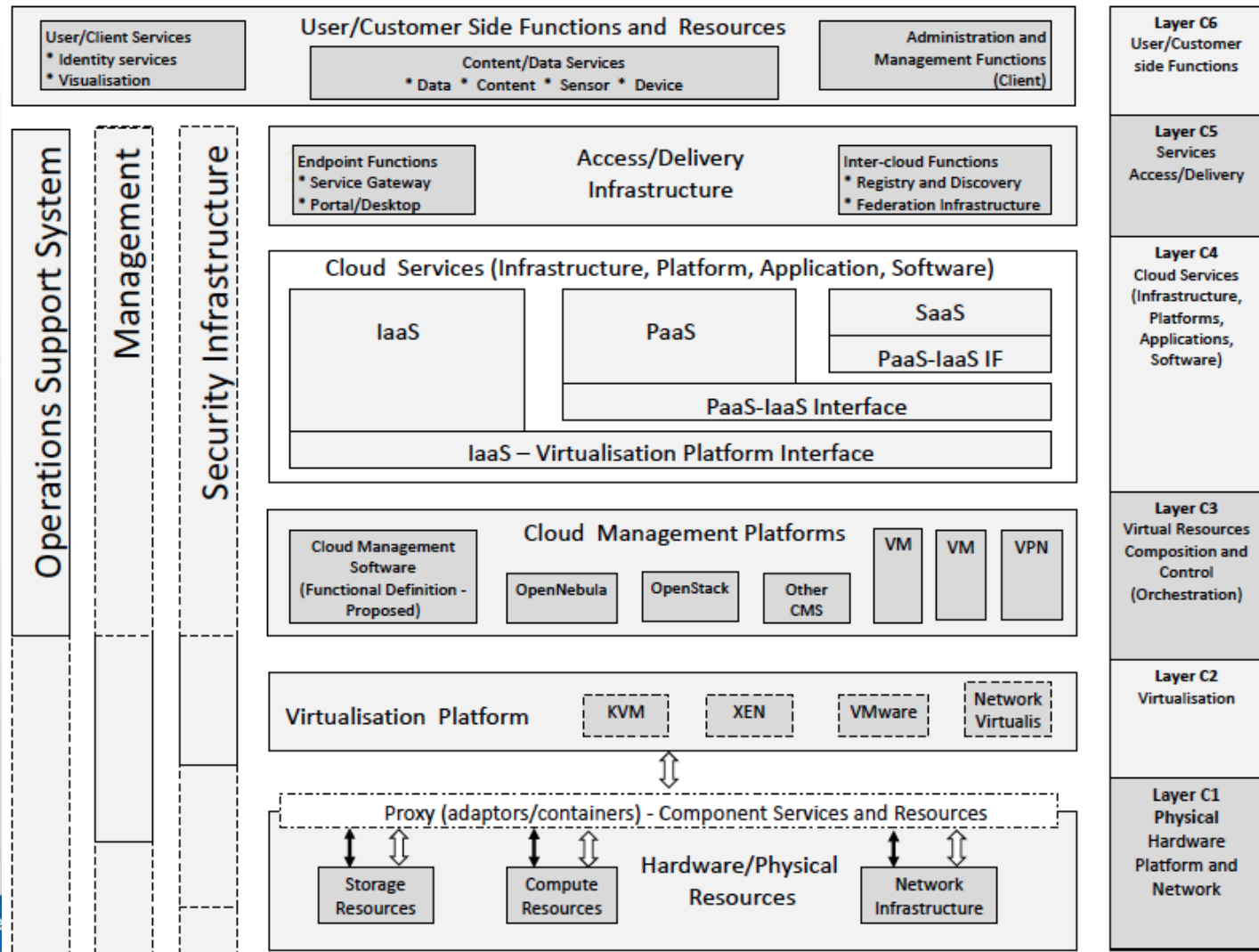
Interoperability Framework

System and Network Engineering Group, UvA

Yuri Demchenko,
Rudolf Strijkers,
Marc X. Makkes,
Canh Ngo,
Cees de Laat



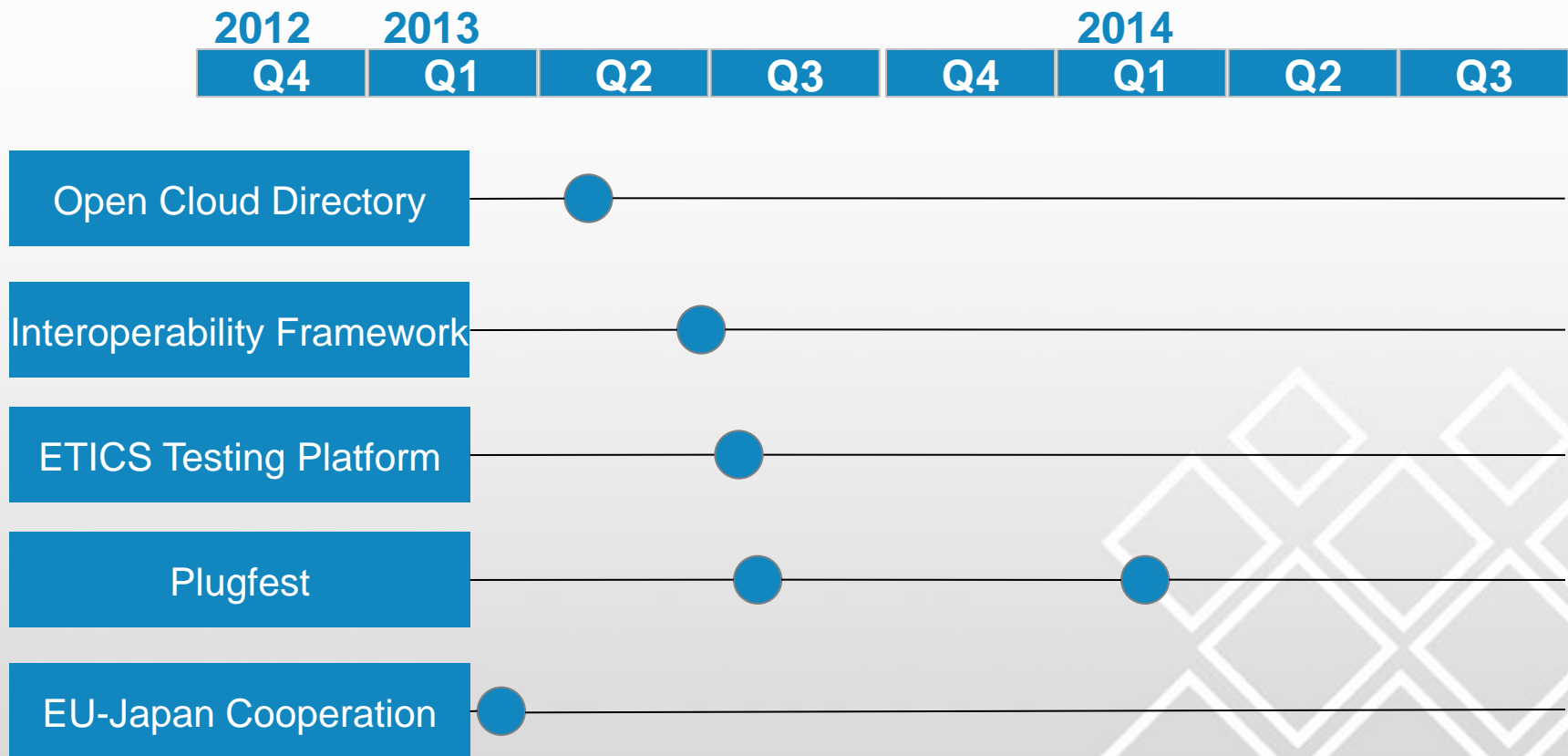
UNIVERSITEIT VAN AMSTERDAM



Plugfest: The Cloud Interoperability Week



Project Timeline





MIDAS

Model and Inference Driven, Automated testing of Services architectures

www.midas-project.eu

MIDAS contribution

- ◆ Define, design and build a general **framework for SOA testing automation** that includes:
 - ◆ test case production, test run execution, test evaluation, planning and scheduling
- ◆ Provide the MIDAS framework as **Testing as a Service and TPaaS on Cloud**
- ◆ **Evaluate the technological and business impact** of the MIDAS framework (TWO PILOTs)
 - ◆ Requirements for testable services architectures
 - ◆ Improvement and costs reduction of the software development process
 - ◆ New business models for the testing market

Who benefits from the project

Dependable and secure SOA are mainly the result of good design and implementation practices, but the stakeholders' trust can be decisively strengthened only by rigorous, sound and open validation and verification processes... **BUT SOA testing is a heavy, complex, challenging and expensive task.**

◆ MIDAS aims to:

- ◆ **strengthen the trust between stakeholders** that intend to deliver their business solutions through SOA infrastructures;
- ◆ support the SOA testing through a cloud infrastructure for allowing the stakeholders to carry out iterative functional and quality test campaigns **at reasonable costs**

◆ Benefits:

- ◆ Stakeholders will reach the needed trust for delivering their solutions over SOA infrastructures, so increasing potential markets
- ◆ Technology driven companies will specialize, improve, configure, deploy and deliver MIDAS like solutions for supporting the stakeholders in their test campaigns
- ◆ **New business opportunities for SME** that will provide domain oriented testing layers and their specific know how both to the business solutions providers and to the related customers.

Open standards

- ◆ Testing standards
 - ◆ Testing and Test Control Notation Version 3 (TTCN-3)
 - ◆ UML Testing Profile (UTP)
- ◆ eHealth standards
 - ◆ HL7-OMG Healthcare Services Specifications Program (HSSP)
 - ◆ Integrating Healthcare Enterprise (IHE) integration profiles

What's the Smart Way for Europe?

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Cloud services for enterprise & innovation





“Companies are understanding where the cloud fits in their architecture and they’re building a new generation of applications that are cloud-savvy, and that manage the risks that they identify in ways that they are satisfied with.”

Stephen McGibbon, CTO EMEA, Microsoft



MobiCloud

The Collaborative Mobile
Cloud Application Platform
for Business

www.mobicloudproject.eu



The Collaborative
Mobile Cloud Application
Platform for Business



MobiCloud Project

Vision: Bridging the Enterprise Mobility Information Gap



Source: French Railway Union Blog

Mobile consumer oriented cloud based applications have started to appear in the market but this is not yet the case for mobile business applications in the cloud.

As a result, mobile workers are under-equipped and under-informed compared to their own customers.

Cloud



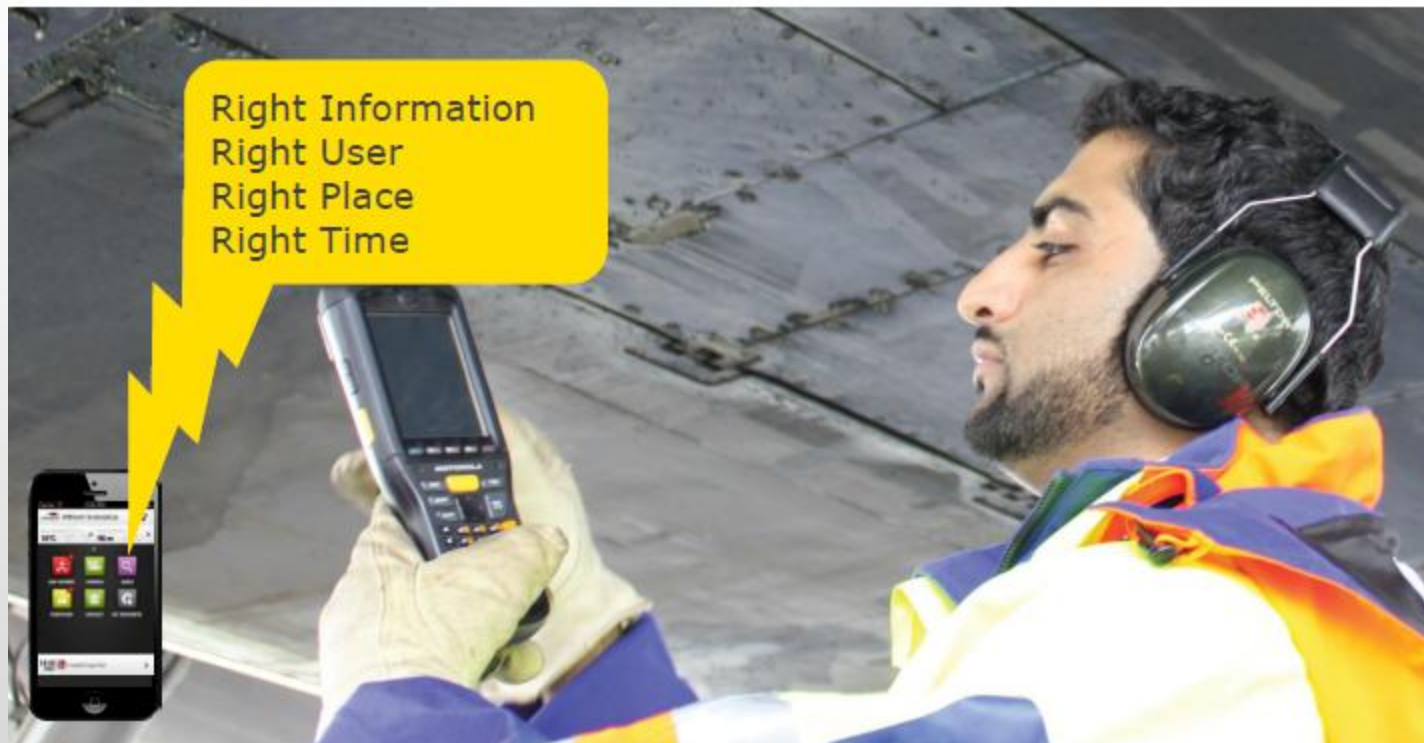
Cloud-Based Mobility Platform allows you to efficiently Manage and Distribute your Apps through your own corporate app store.



Context



Context enable your apps to make them smarter and easier to use.



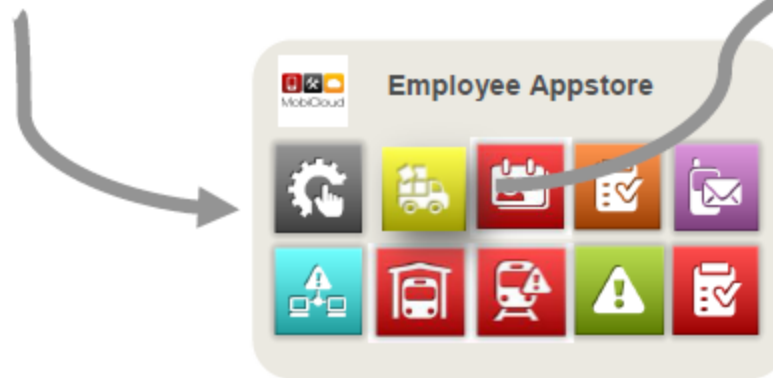
Cross-platform



The development toolkit reduces time and development costs for your mobility project.



MobiCloud Enterprise Appstore





Developer Feedback



Developer

"[...] I then uploaded the apps to my AIQ development area, installed the new client onto my 3 mobile devices, watched the apps immediately download and then run them all without error. It has all worked seamlessly. Impressive stuff, I must say.

All I have to do now is write this new app. Simple!"

MobiCloud Application Scenarios



Join MobiCloud Now!



	Early Adopter Program	Associate Member Program
Mobile Developer	<p>Early access to the MobiCloud SDK to develop your own applications.</p> <p>Free copy of the MobiCloud Development Handbook</p>	<p>Visibility on the MobiCloud Store where the member is promoted as a certified developer.</p>
System Integrator	<p>Early access to the MobiCloud SDK</p> <p>Free copy of the MobiCloud Development Handbook and Deployment & Support Handbooks</p>	<p>Visibility on the MobiCloud Store where the member is promoted as a certified integrator.</p>
Enterprise	<p>Early access to the MobiCloud mobility platform for trials (less than 5 users).</p> <p>Early access to MobiCloud deliverables, including application templates built for the MobiCloud trials.</p>	<p>Access to the MobiCloud infrastructure to develop a mobile solution proof of concept (more than 5 users).</p>



MobiCloud
www.mobicloudproject.eu



info@mobicloudproject.eu



[@mobicloudproj](https://twitter.com/mobicloudproj)



MobiCloud Applications for Business



mobicloudproject.blogspot.co.uk



Accelerating the adoption,
deployment and use of Cloud
Computing by SMEs

www.cloudingsmes.eu

Focus of CloudingSMEs

- ◆ *Development and support of a sustainable pan-European SME community on Cloud computing*
- ◆ *Production of a vision document reflecting the common voice of SMEs in terms of cloud computing issues*
- ◆ *Building the SME community and provide support and training through the multilingual SaaS PROMIS® platform which will be tailored to the CloudingSME's needs. It will include tools and templates for cloud adoption issues*

Why is it important?

- ◆ *Cloud computing could deliver significant benefits to SMEs*
- ◆ *SMEs have limited awareness about the cloud*
- ◆ *SMEs have technical (e.g., data security,/privacy standards, compliance) and non-technical (e.g., costs, SLAs) concerns*
- ◆ *Scoping with the diverse needs of the millions of European SMEs is important*
- ◆ *Coordination & Synergies between SME communities (e.g. SME Associations) and cloud communities (e.g EuroCloud) are needed*

Who stands to benefit

- ◆ *SMEs in Europe as user of Cloud Computing offerings*
- ◆ *SMEs in Europe who offers/plan to offer Cloud Services*
- ◆ The project will contribute to growing the Cloud Computing market through:
 - ◆ (a) Increasing demand for cloud services, notably from the SME side and
 - ◆ (b) Boost the development of innovative added value solutions that could subsequently give rise to new cloud offerings and associated revenue streams

*Accelerating the adoption, deployment and use of
Cloud Computing by SMEs - FP7 No. 609604*

contact@cloudingsmes.eu



UEAPME



PROMIS@Service



EUROCLOUD



EBS



PIN-SMEs



CLOUDZONE



BITMI



ECIPA



Reenergise productivity,
efficiency and competitiveness
of the European economy
through cloud computing

www.cloudcatalyst.eu

Objectives of Cloud Catalyst

- ◆ Launch a set of actions to foster the emergence of a strong and enthusiastic community of cloud adopters and supporters in Europe:
 1. Support entrepreneurs, researchers and software developers to create value-added Cloud products and services;
 2. Increase the awareness of Cloud Computing benefits and positive impact in the European economy and ensure project sustainability

The main outputs

- ◆ Accelerator toolbox, which will include guidelines, best practices and management tools for accelerating the development of innovative and disruptive Cloud Computing services and products collection;
- ◆ Online service for information sharing and dissemination, coaching and consulting to EU entrepreneurs and SMEs and other key stakeholders interested in the development and implementation of cloud solutions.

Why is it important?

- ◆ *Cloud Catalyst will contribute to the recognition of European position in the Cloud Computing market by unlocking the full spectrum of the Cloud channel value chain to the benefit of all, including both the European business software industry and the individual citizen and consumer who shall be given access to value-added services.*
- ◆ *Cloud Catalyst actions will be aligned with the European Cloud Computing Strategy, contributing to the fulfillment of its key objectives for job creation and EU industrial competitiveness improvement*

Who stands to benefit

- ◆ entrepreneurs, researchers, business developers, cloud service providers and cloud consumers:
 1. *Entrepreneurs - Will explore state of the art research, ideas and innovation opportunities. Will benefit from entrepreneurship and startups development tool-box*
 2. *Researchers- Will find more efficient strategies for research exploitation in an open community ecosystem*
 3. *Business developers – will increase the knowledge based on new business models enabled through cloud computing*
 4. *Cloud Service Providers - Will increase revenue based on services aggregation in a open and share revenues strategy, and on costumers increased confidence*
 5. *Cloud Consumers – will benefit from online service for information sharing best practices*

Cloud Catalyst

*Reenergize productivity, efficiency and competitiveness
of*

European economy through Cloud Computing

FP7 No. 612053 - info @cloudcatalyst.eu



www.telecom.pt

www.eurocloud.org

www.ucm.es

www.simobil.si

uptec.up.pt



FOSTERING
MOBILE
BUSINESS

THROUGH
ENHANCED
CLOUD
SOLUTIONS

www.mobizz-project.eu

Objectives of MO-BIZZ

- ◆ MO-BIZZ will offer companies advanced mobile services and applications, fostering the involvement of a vibrant developers' community.
- ◆ Several apps will be deployed in industries with a high need for real-time business processes and intelligence.
- ◆ It is a simple way to put technology at the centre of IT businesses' strategy, so they can rapidly deploy services to their customers using mobile cloud solutions.

The main outputs

- ◆ Real-time, converged, operational service platform for business apps;
- ◆ Advanced mobile services and applications and a set of open connectivity layers into which enterprise app developers can connect;
- ◆ Services will be agnostic about the type of device or operating system on which they run, offering the promise of a truly open ecosystem independent of device and operating system.
- ◆ Pilots will test explore innovative mobile solutions in companies from key sectors in Europe with a high need for real-time business processes and intelligence.

Why is it important?

- ◆ Build up a strategic global approach to mobile cloud
- ◆ Rethink commercial models and subscriber data management
- ◆ Transform business models and develop MO-BIZZ offerings in adjacent markets
- ◆ Develop efficient cooperation to create a successful ecosystem



Smart CloudPT

ONAR FRAMEWORK

CLOUD
PROVIDER

INFRA-
STRUCTURE

PROVISIONING
AND
MANAGEMENT

BUSINESS
APPLICATION
HOSTING

BUSINESS APPLICATIONS

(from ALTEC, PHC, Mobivery, XLAB, and UNISOFT)

BUSINESS INTELLIGENCE (BI)

ENTERPRISE RESOURCE PLANNING (ERP)

CUSTOMER RELATIONSHIP MANA.G. (CRM)

BUSINESS COLLABORATION
(VIDEO AND MESSAGING)

PUBLISHED APIS

LOCATION, STORAGE, NETWORK SERVICES, IDENTITY MANAGEMENT, MESSAGING,
USER CONTEXT, PAYMENT, APPLICATION PUBLISHING

Mobile Application Developers

API
PUBLISHING

BUSINESS
INTELLIGENCE

INNOVATIVE
APPLICATIONS

NEW BUSINESS
CASES

Who stands to benefit

- ◆ Open up a mobile cloud ecosystem to a pan-European and global audience. It will be a widely accessible platform for business applications that satisfies the needs of a highly diverse customer population of corporate and individual users.
- ◆ MO-BIZZ will allow developers to deploy a broad range of solutions over a single platform, without having to do additional integrations and define various business processes to launch a complete service portfolio.
- ◆ MO-BIZZ will allow the commercial deployment of any kind of business apps with a very short time-to-market and important savings in implementations and integrations with back-end systems

MO-BIZZ

*MO-BIZZ - Fostering Mobile Business through
Enhanced Cloud Solutions*
CIP-ICT-PSP.2012.5.2- info@mobizz-project.eu



*Dissemination & Exploitation Manager: Paulo Calçada –
paulo.calcada@eurocloud.org*

Project Coordinator: PORTUGAL TELECOM, Andreia Jesus - andrea-jesus@telecom.pt

For further information please visit (project website): www.mobizz-project.eu



VISION Cloud

<http://visioncloud.eu>

The explosion of personal and organisational digital data has been recognised as one of the most significant characteristics of the decade.



Generated data is growing faster than we can store or manage it.



Organisations from large sectors such as Media, Health, Telecommunication face ever increasing data challenges

Why is VISION Cloud innovative?

VISION Cloud has defined a scalable, resilient architecture for services on demand, at competitive costs, across disparate domains, while providing quality of service and security guarantees.



VISION Cloud Media
A workflow for video and data journalism using next-gen cloud storage



Aggregating vast amount of data with multiple sources
social networks and traditional journalistic texts



Today's landscape is a fully interactive
and connected digital ecosystem



There is an increasingly high demand on bandwidth, storage
and integration of services to suit the needs of the modern
media professionals





A workflow for video and data journalism using next-generation cloud storage





What are the key benefits?



Easy to use data management and integration tools

Secure Storage and prevention against data loss

Cloud based collaboration across geographies

Cost savings through cloud and reuse options

Search for data videos available through metadata

Content-centric computational storage for video and data journalism