



MULTICLOUD APPLICATIONS TOWARDS  
THE DIGITAL SINGLE MARKET

[www.decide-h2020.eu](http://www.decide-h2020.eu)

The main objective of the DECIDE project is to provide a new generation of **multi-cloud** service-based software **framework**, enabling techniques and mechanisms to **design, develop, and dynamically deploy multi-cloud** aware applications in an ecosystem of reliable, **interoperable**, and **legal** compliant cloud services.



## KEY RESULTS

**DECIDE DevOps Framework:** The adequate environment for multi-cloud native application developers and operators to design, develop, deploy and operate multi-cloud applications following the DevOps philosophy on continuous integration, continuous quality and continuous delivery.

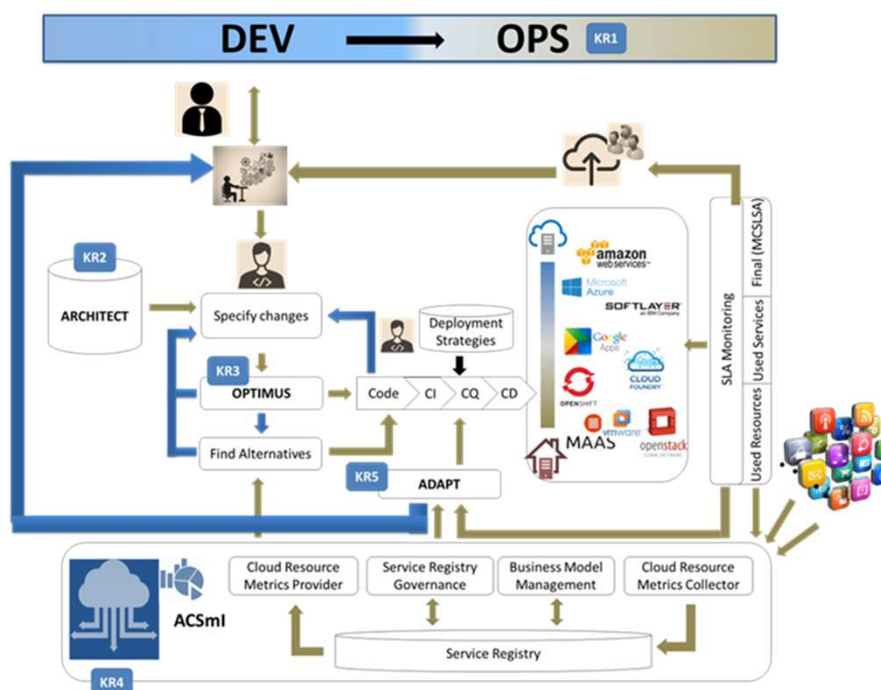
**DECIDE ARCHITECT:** A set of recommended architectural patterns to be applied in order to facilitate the design, development, optimization and deployment of a multi-cloud native application. Special emphasis in non-functional aspects will be made, such as performance, elasticity or scalability.

**DECIDE OPTIMUS (Simulation tool).** Means to simulate the most adequate application topology based on a set of user driven NFR and provide recommendations on the best options for the application deployment.

**ACSml (Advanced Cloud Service meta-Intermediator)** An Advanced Cloud Service meta-Intermediator (ACSml) which will offer, create, consume and assess trusted, interoperable, and standard multi-cloud services where to deploy the multi-cloud applications. The ACSml will also provide mechanisms to support the dynamic reconfiguration of cloud services based on changing conditions (SLA violations, security constraints, network outages) using SDN techniques.

**DECIDE ADAPT,** a tool that allows the (semi-) automatic adaptation of the application and redeployment in another multi-cloud configuration when certain conditions are not met.

## APPROACH





### BENEFITS

The project will develop a DevOps framework that will support software development companies in:

- 1 **enhancing** their multi cloud applications development and operations processes,
- 2 **improving** the developers' and operators' productivity,
- 3 while **ensuring** the application maintainability, Quality of Experience (QoE) and Quality of Service (QoS) in its whole life,
- 4 and **decreasing** the time-to-market.



### USE CASES

**Arsys.** Deployment and Monitoring. Using a Change Tracking Center can be critical for companies in the management of their technical platforms, as IT solutions usually involve different internal stakeholders through its evolution.

**Aimes.** E-health. AIMES are a bespoke cloud solutions provider specifying in the provision of cloud for health data based applications and digital services.

**Innovati.** Network management. Network management is a key aspect of the operation of the telecom networks as performed by the Telecom Operators and other players.



# CONSORTIUM



**Hewlett Packard  
Enterprise**



**innovati**  
Innovación y Creatividad en TI



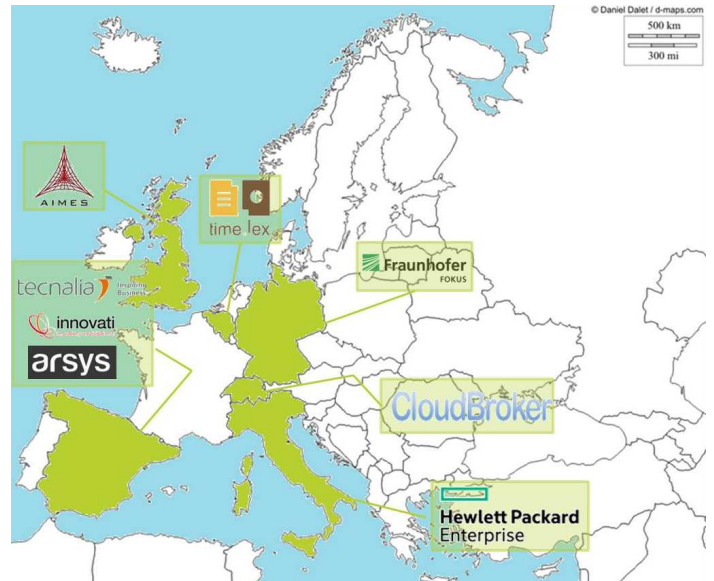
**Fraunhofer**  
FOKUS



time.lex

**CloudBroker**

**arsys**



**Web:** <http://www.decide-h2020.eu>

**Twitter:** @decideh2020

**LinkedIn:** <https://www.linkedin.com/groups/8602459>

**Slideshare:** <http://www.slideshare.net/Decideh2020>

## CONTACT INFORMATION

**Project Coordinator:**

Leire Orue-Echevarria

[Leire.Orue-Echevarria@tecnalia.com](mailto:Leire.Orue-Echevarria@tecnalia.com)

+34 664 103 005



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731533