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

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