



CloudDB Appliance

European Cloud-In-Memory Database Appliance with Predictable Performance for Critical Applications

Project General Presentation



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 732051



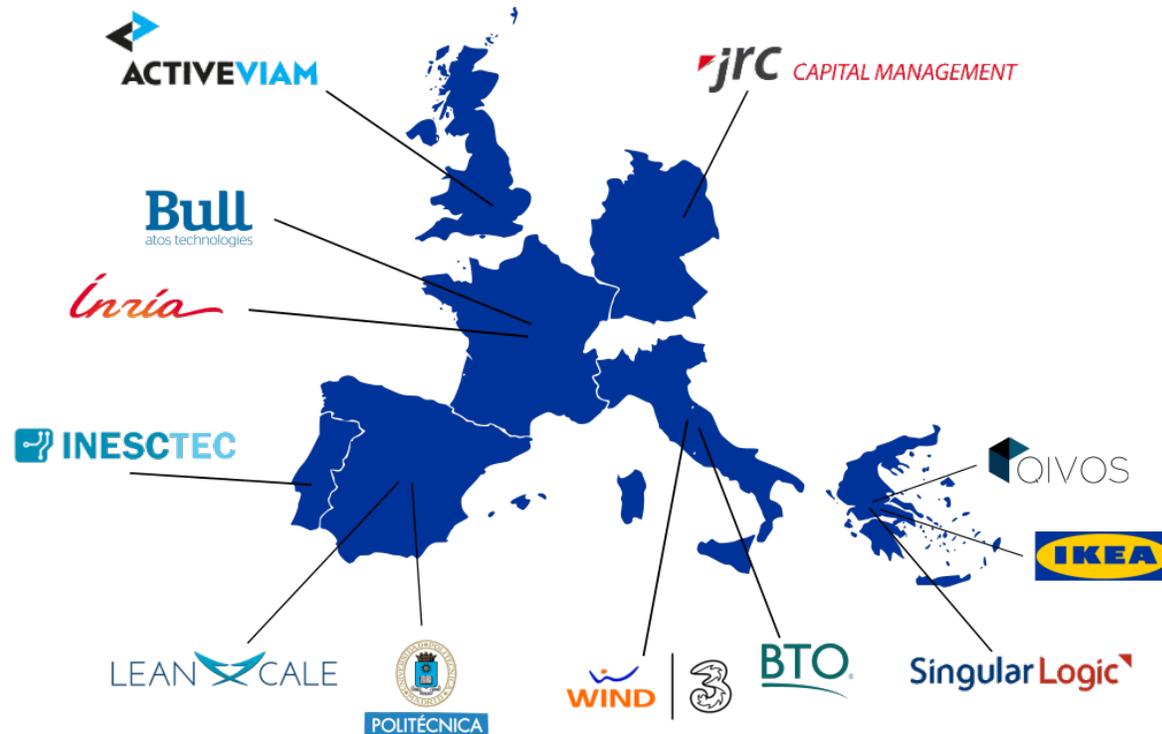
Project Information

- Project Number: 732051
- Program Type: Research and Innovation Action
- Execution Period: 01/12/2016 – 30/11/2019
- Budget: € 4,83M
- Project Coordinator: Bull/Atos Technologies

Partners



- 12 from 7 countries (FR, ES, UK, IT, GR, PT, DE)



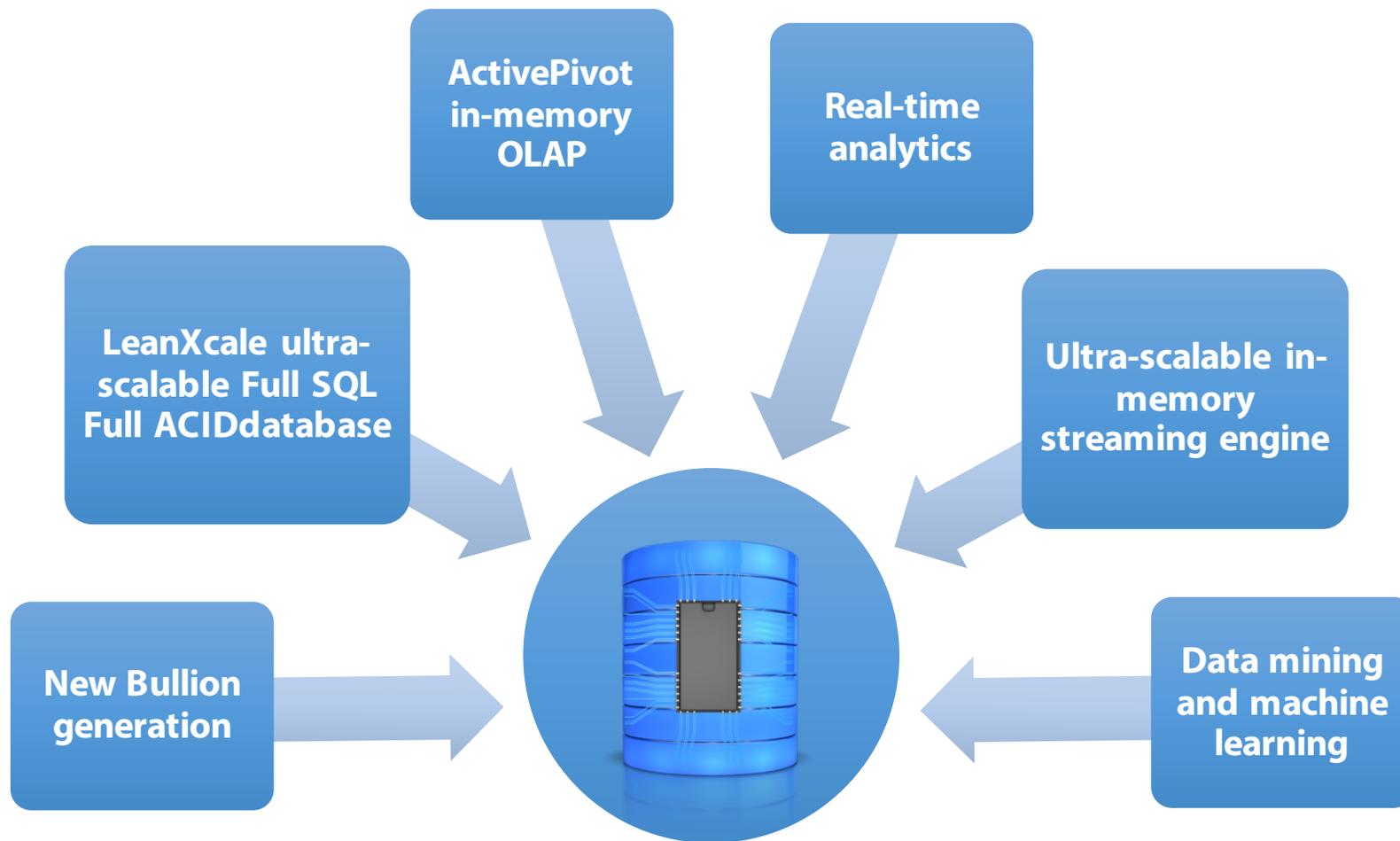


Motivation

- The CloudDBAppliance project will create a European cloud database appliance for providing data analysis as a service, able to match the predictable performance, robustness and trustworthiness of on-premise architectures, featuring:
 - A vertically scalable in-memory operational database for time-critical applications
 - A fast analytical engine delivering real-time data
 - An operational data lake
 - The next-generation Bullion, with 120 cores and 32 TB of main memory



What makes CloudDBAppliance unique?





Objectives

- Deliver a European cloud database appliance with a leading-edge hardware platform
- Support robustness, trustworthiness, and predictable performance required by critical applications
- Improve the management of physical resources and efficiency of cloud systems to address the challenges on scale and resilience posed by data intensive applications
- Support real-time big data, real-time analytics, data mining and machine learning



Applications Domains



Finance /
Banking

Bank Sector

- Real-time risk monitoring in banking
- ATM optimization



Telco

Telecommunications Sector

- Mobile number portability



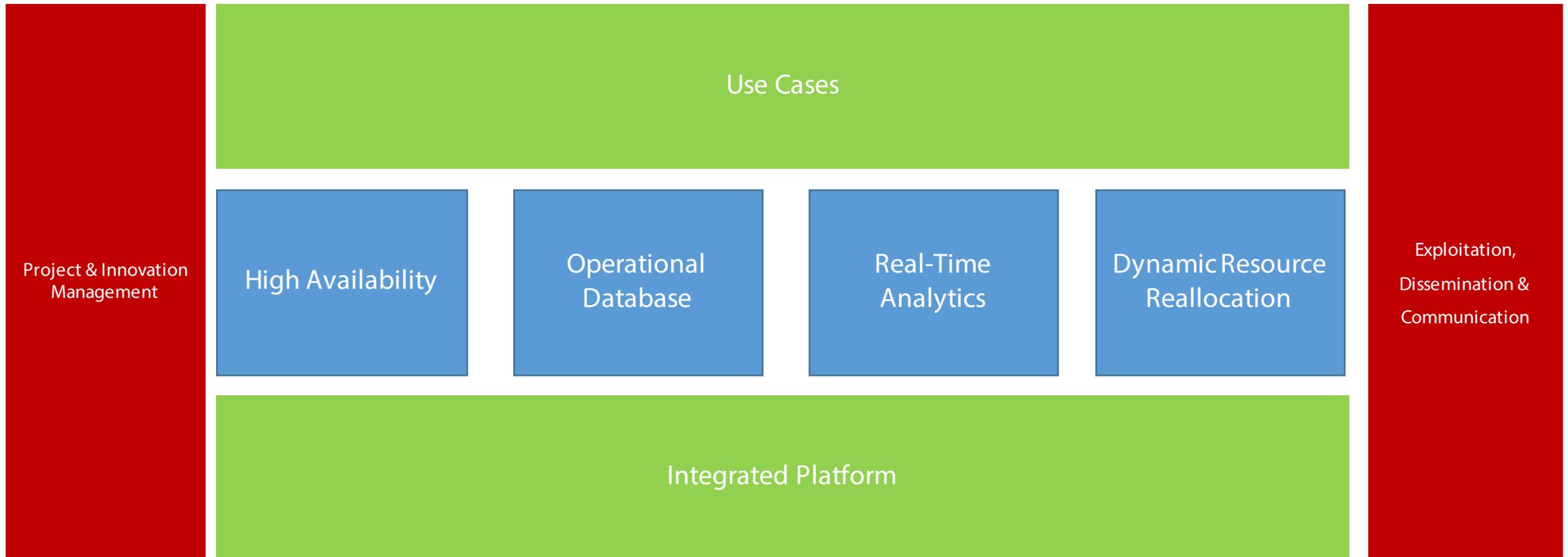
Retail

Retail Sector

- Proximity marketing
- Real-time pricing



Structure of the Project





CloudDB Appliance

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