Sodalite

SOFTWARE DEFINED APPLICATION INFRASTRUCTURES MANAGEMENT AND ENGINEERING



www.sodalite.eu

This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825480



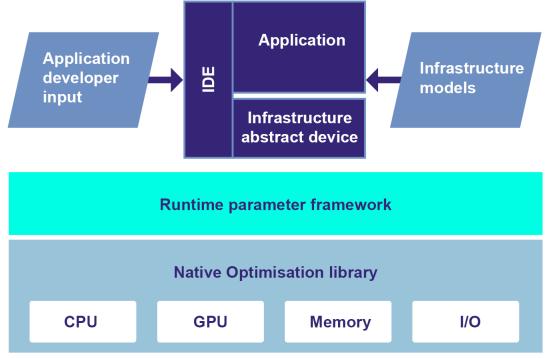
We are living in a software-defined world.

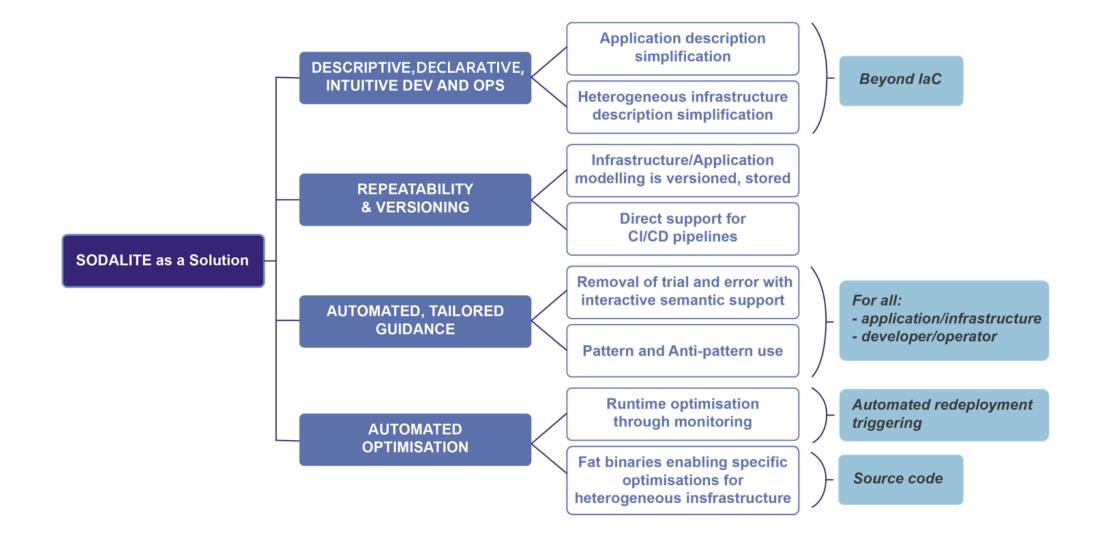
Cloud in the back-end of most daily routines, operations, assistants, IoT devices. HPC in the back-end of industrial design, optimisations, weather predictions.



SODALITE will provide tools to enable simpler and faster development, deployment, operation and execution of heterogeneous apps in HPC, Cloud & SW defined computing environments







www.sodalite.eu

Ease, flexibility, openness

- Easy to adopt simplified application lifecycle management
- Deployment flexibility and heterogeneity
- Robustness and reliability
- ✓ Reproducibility
- Based on robust methodology
- ✓ Versatile and scalable
- ✓ No vendor lock

Sodalite

Performance

- Performance-centric application deployment management
- Deployment efficiency
- Focus on application performance

Cost Reduction

- Cost and time reduction in infrastructure management
- Cost and time reduction in application deployment and management

Use-Cases as Drivers for SODALITE Innovation

SODALITE Innovation: toolset for simpler and faster development, deployment, operation and execution of heterogeneous apps



Use case: GPU Snow Use Case

Problem: Need for a reconfigurable workflow (CPU/GPU/IO bound), to be deployed anywhere and optimised for that infrastructure.

Solution: Optimisation and reconfiguration improve potential prediction accuracy due to improved throughput of data.



Use case: Vehicle IoT

Problem: Changing compliance, privacy, and security needs in a dynamic environment, combined with limited computational capacity at the network Edge.

Solution: Adaptive Application and Deployment Reconfiguration, leveraging heterogeneous compute resources in a multi-cloud (Cloud-to-Edge) environment.



Use case: In-silico Clinical Trials

Problem: Production-ready, complex workflow, needs to be capable to efficently run anywhere.

Solution: Deployment optimisation, heterogeneity support and deployment reconfiguration - enabling to target any infrastructure.

EAB members

() SINTEF



SODALITE has the potential to deliver solid innovations, validated in large pilots, towards the deployment and operation of the next generation of applications that will run on heterogeneous HPC and Cloud resources.

Nicolas Ferry

UNIVERSITÄT DUISBURG ESSEN

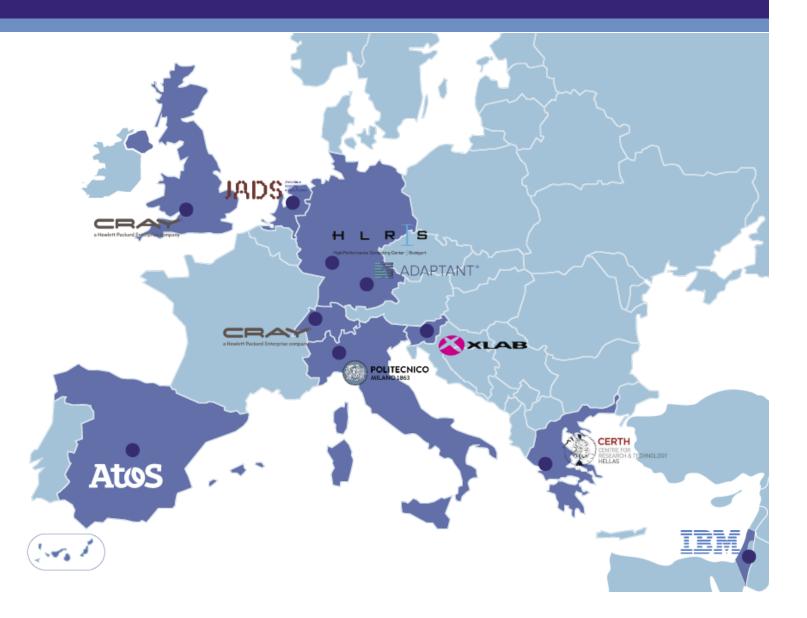


The SODALITE outcomes are an impressive next step to facilitate efficiently deploying and operating complex, adaptive software across the whole compute continuum.

Andreas Metzger

Who we are

The Consortium 22





Thank you for your attention!





www.sodalite.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 825480