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High performing data-centric stack for big data applications and operations

Co-funded by the European Commission
Horizon 2020 - Grant # 779747



- 14 partners from 7 different countries
- well-balanced team with partners from industry, academia and research centres
- Project coordinator: IBM Israel
- 36 month project (started 01.2018)
- Funded by EC under grant agreement no 779747



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Data-driven infrastructure management system for infrastructure providers



Data as a Service for data providers, decision makers, private and public organisations



Data toolkit for data scientists and practitioners



Process modelling and optimization framework for business analysts

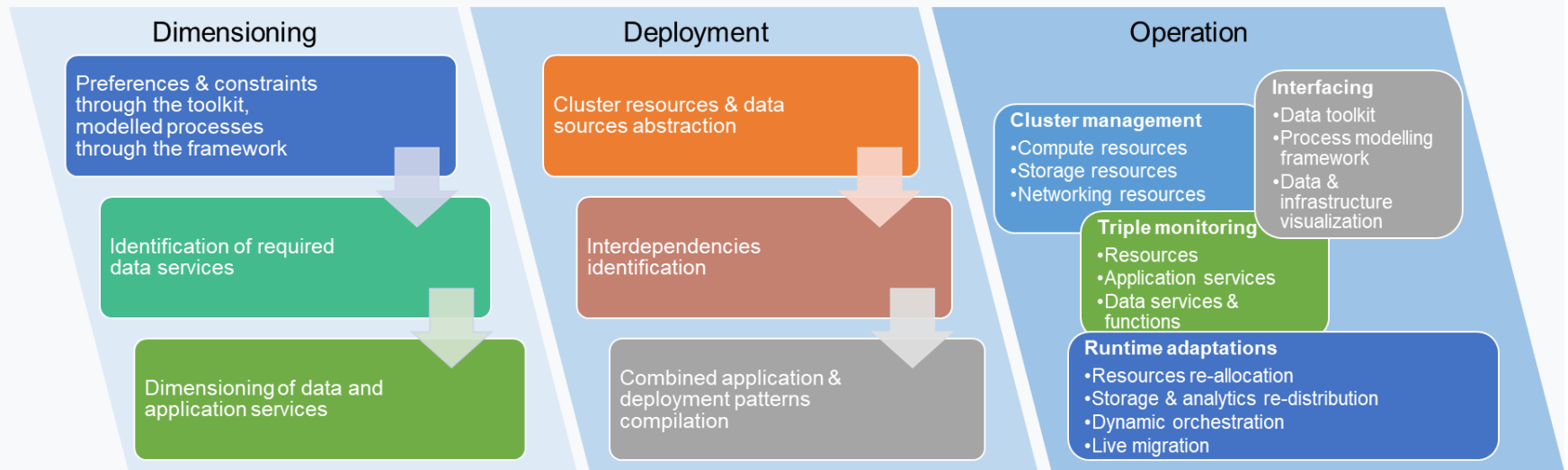


Application dimensioning workbench for application providers and engineers



3 main phases

- Dimensioning: providing insights from the “upper layer” (i.e. big data applications)
- Deployment: targeting the “lower layer” (i.e. infrastructure) by considering dimensioning outcomes
- Operation: runtime and optimization / adaption



■ Gateway

- Actor: Data owners
- Operation: Store data in BigDataStack (SQL and NoSQL) data stores

■ Data Toolkit

- Actor: Data scientists
- Operations:
 - Ingest analytics
 - Set preferences / constraints to be used for dimensioning

■ Process Modelling Framework

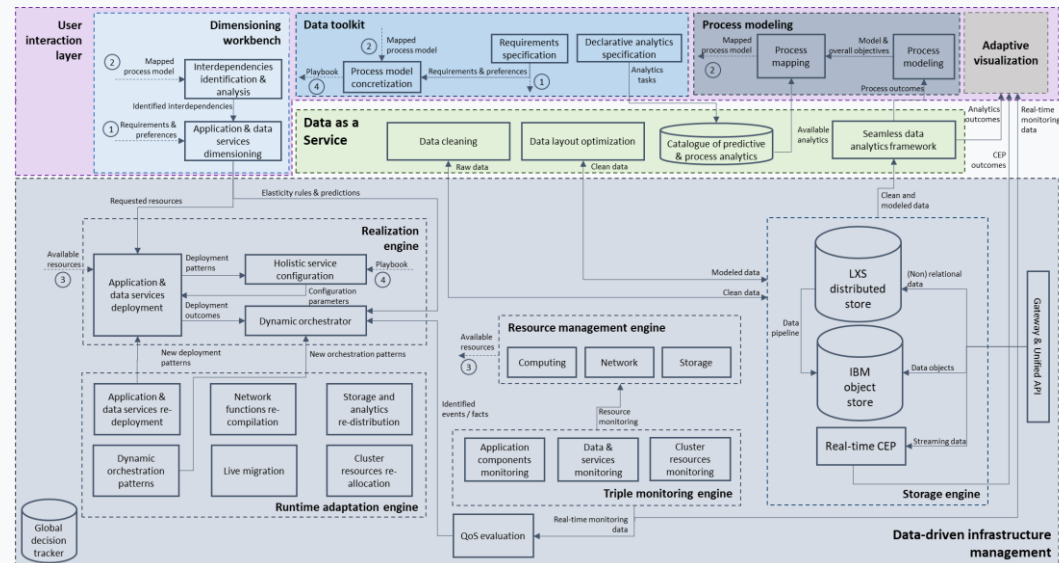
- Actor: Business analysts & application owners
- Operation: functionality-based business processes optimized based on process analytics outcomes

■ Application Dimensioning Workbench

- Actor: developers
- Operation: Dimension applications

■ Visualization workbench

- Towards all stakeholders
- “Output” endpoint



Efficient and optimized infrastructure management for big data applications

Real-time ship management

- Predictive maintenance and spare parts inventory management towards dynamic routing



Connected consumer

- Consumer-tailored predictions and personalized offers in real time



Multi-channel banking

- Profitability prediction, decision in real-time on how customers should be addressed at any point of contact



BigDataStack use cases will provide **~80TB** of corporate data. Relevant regulations to ensure privacy and **GDPR compliance** for data management and analysis.



Big data organizations and initiatives (BDVA, H2020 BigData PPP projects - ICT14 & ICT15))



Entrepreneur, ICT SMEs & Startups (Digital SME Alliance, SBS SME)



Academia and research



Standardisation bodies (ETSI, oneM2M, OASIS, NIST)



Open Source Project and Initiatives (Linux, KVM, OpenShift, Apache)



General public

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**Thank you very much
for your attention!**

Questions?

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