High performing data-centric stack for big data applications and operations
Who’s behind bigdatastack.eu

- 14 partners from 7 different countries
- 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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Expected outcomes – In a nutshell

- **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
- **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 / adaptation
Efficient and optimized infrastructure management for big data applications
Use cases

- 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

- Smart Insurance
  - Profitability prediction, personalized recommendation to customers with cross-selling and upselling strategies, churn prediction

Bringing the outcomes of the research and development into a real context
Synergies and stakeholder engagement

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

Enterpreneur, 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

We are always looking for new collaborations
Join our community

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Thank you very much for your attention!

Questions?

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