

## HIGH-PERFORMING DATA-CENTRIC STACK FOR BIG DATA APPLICATIONS AND OPERATIONS

BigDataStack is a unique high-powered stack of solutions with a focus on providing fully efficient and optimised processes across the complete set of technologies required by data operations and data-intensive applications.

### KEY RESULTS

**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



Eliot Salant, project coordinator (IBM Haifa):

*"BigDataStack will provide a complete infrastructure management system that will base the management and deployment decisions on data aspects thus being fully scalable, runtime adaptable and high-performing for big data operations and data-intensive applications"*

# USE CASES



## Connected consumer:

This will provide retailers with optimal insights into consumer preferences and improve the effectiveness of marketing strategies for improving consumer shopping experience.



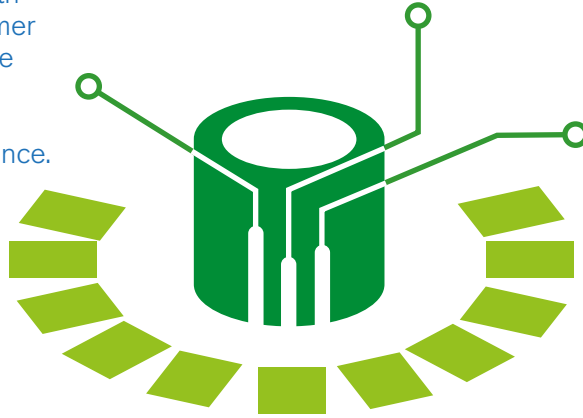
## Real-time ship management:

The algorithms will optimize and help cut costs on maintenance and spare parts inventory planning and dynamic routing.



## Intelligent multi-channel banking:

A multi-channel scenario will be developed to increase business agility and reduce operational costs.



## BigDataStack Features

- A new and distributed architecture
- Data operations characterisation and application analysis
- Data-driven & runtime adaptable decisions
- Covers the complete data path and lifecycle
- Visualization of information for the infrastructure and data analytics results
- Availability and integration

## Stakeholders



Big data organizations & initiatives



Standardisation bodies



Academia and research



Entrepreneurs, ICT SMEs  
& Start-ups



Open Source Project and Initiatives



General public

## Who's behind BigDataStack?

Balanced mix headed by IBM Israel (IL) involving large industrial players, research centres and SMEs: Athens Technology Center (GR), ATOS (ES), Danaos Shipping Co. (CY), GFT Italia (IT), LeanXcale (ES), NEC Europe (UK), Red Hat Israel (IL), SingularLogic (RO), Trust-IT Services (UK), Ubitech (CY), Universidad Politecnica de Madrid (ES), University of Glasgow (UK), University of Piraeus Research Center (GR).

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