The LEXIS project has successfully kicked off

(Ostrava, Czech Republic, 16th April 2019) With its kick-off meeting in January in Ostrava, the LEXIS (Large-scale Execution for Industry & Society) project has now been officially launched. 16 partners from all over Europe gathered here and joined forces to set up all activities to be completed during the project. LEXIS brings together a consortium with the skills and experience to deliver a complex multi-faceted project, spanning a range of complex technologies across seven European countries.

Project coordinator Dr. Jan Martinovic clearly defines the immediate ambition of LEXIS: *"Our target is to build an advanced engineering platform leveraging modern technologies from High Performance Computing (HPC), Big Data and Cloud Computing. We will demonstrate the benefits of the LEXIS project in the context of three industrial large-scale pilots which are Aeronautics, Weather & Climate, and Earthquake & Tsunami."*

Combinations of HPC, Cloud and Big Data technologies are key to meeting the increasingly diverse needs of large and small organizations alike. Critically, access to powerful compute platforms for Small to Medium Enterprises - which has been difficult due to both technical and financial reasons - may now be possible. LEXIS will organise a specific call stimulating the project framework adoption and the stakeholders engagement on the targeted large-scale pilots.

Driven by the requirements of the pilots, the LEXIS platform will build on best of breed data management solutions and advanced, distributed orchestration solutions, augmenting them with new, efficient hardware capabilities in the form of Data Nodes and federation, usage monitoring and accounting/billing supports to realize an innovative solution.

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IT4Innovations National Supercomputing Center provides state-of-the-art technology and services to both Czech and foreign research teams from academia and industry in the field of high-performance computing and data analysis. Currently, IT4Innovations runs two supercomputers - Anselm (installed in the summer of 2013) and Salomon (installed in the summer of 2015). IT4Innovations is also a research centre with strong international links. Core IT4Innovations research topics are advanced data processing and analysis, machine learning, the development of parallel scalable algorithms, the solution of demanding engineering tasks, and modelling for nanotechnology.

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