

PROCESS is an EU funded project that aims to:

- Go beyond existing exascale computing technology in Europe.
- Provide real, reusable solutions in key industries:
 - Medicine
 - Astronomy
 - Disaster Management
 - Airlines
 - Agriculture
- Spread the adoption of HPC technology through dissemination and collaboration.

PROCESS key facts

- ✓ A collaborative Research and Innovation Action under the EU Horizon 2020 Programme
- ✓ Co-funded by H2020 with €2,972 million
- ✓ Timeline: November 2017 to October 2020
- ✓ Led by the Ludwig-Maximilians-Universitaet Muenchen

POTENTIAL USERS

HPC Data centres



Scientific communities



Private small, medium and large companies



OUTPUTS

- ✓ Ground-breaking services prototypes and tools developed to speed up the uptake of future extreme-scale data processing
- ✓ Exascale Data Services, more intuitive and easier to use for broader communities

PROCESS will offer:

- ✓ 5 data services **prototypes** in a mature, modular and generalizable open source solution for user-friendly exascale data



Exascale learning on medical image data

An open pattern recognition system as a diagnosis support tool



Square Kilometre Array/LOFAR & SKA

A Big Data Stream Management Services bundle



Innovation on global disaster risk data

A Flexible Tools pack for disaster risk reduction & management



Ancillary pricing for airline revenue management

A privacy-respecting Business Decision Support System for a high number of transactions



Agricultural, Copernicus data-based analysis

A framework for validating highly demanding long-term modelling and simulation of results

- ✓ A common **architecture** in service component clusters



Lufthansa Systems

netherlands

eScience center

Hes·SO



MNM

TEAM
MUNICH NETWORK MANAGEMENT TEAM



AGH



UNIVERSITEIT VAN AMSTERDAM



inmark
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ÚSTAV INFORMATIKY
SLOVENSKÁ AKADEMIA VIED



@PROCESS_H2020



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