



NCP Meeting

LEIT ICT-11a-2018-2019: HPC and Big Data enabled Large-scale Test-beds and Applications

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What are we looking for?

- Large-scale HPC-enabled industrial pilot test-beds supporting BD applications and services
- Combining and/or adapting existing relevant technologies (HPC / BD / cloud) to **optimize the specific features** of processing very large data sets.
- Strong **industrial commitment**
- Fostering **innovation potential and digitisation** on in EU key industrial Sectors: e,g healthcare, manufacturing, energy, etc.
- Budget : **€50million**

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Scope

- Large-scale HPC-enabled industrial pilot test-beds supporting BD applications and services
- Combining and/or adapting existing relevant technologies (HPC / BD / cloud) optimize the specific features of processing very large data sets.
- Massive amounts of diverse types of big data
- Clearly demonstration of innovation and value creation.
- Description of the data assets/standards/ interoperability
- Simple secure access and secure service provisioning of highly demanding data use cases for industry, via the cloud.

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Impact (KPI based)

- Increase **innovation and productivity** in target sector
- Increase **market share of BD technology providers**
- Effective **integration of HPC/BD/Cloud/IoT technologies** in the target sector
- Widening the **use of and access to advanced HPC, big data and cloud infrastructures**
- Stimulating **additional private and public target investments** in HPC and BD technologies from industry and MS.

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What are **NOT** looking for?

- Proposals not including a strong HPC component
- **Extensive R&D** (this is an Innovation Action/Large scale pilot)

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Is this new or has it been called before?

- It is new topic as there is a need to **increase the utilization of HPC-BD technologies** by the European industry
- Although it builds on projects funded through ICT-15 of the H2020-ICT 2016-2017 Work Programme

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Who are the leading players? Is there a key group of actors (eg. cPPP or other) driving this?

- Computing centres and research/industry actors with expertise in state-of-the-art HPC applications (codes, algorithms, software tools, etc.) in targeted industrial domains
- Etp4hpc, PRACE, Big Data Value Association
- IT providers, Application domain companies