



Big Data 2017 calls

ICT-14; ICT-15; ICT-16, ICT-17 and others

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General information



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Area of interest	Choose Y or N
ICT-14: Big Data PPP: Cross-sectorial and cross-lingual data integration and experimentation A) Data integration activities	Y
ICT-14: Big Data PPP: Cross-sectorial and cross-lingual data integration and experimentation B) Data experimentation incubators	Y
ICT-15-2016-2017: Big Data PPP: Large Scale Pilot actions in sectors best benefitting from data-driven innovation Large Scale Pilot actions	Y
ICT-16-2017: Big data PPP: research addressing main technology challenges of the data economy cross-sector and cross-border problems or opportunities of clear industrial significance.	Y
ICT-17-2016-2017: Big data PPP: Support, industrial skills, benchmarking and evaluation Benchmarking action	Y
Others:	Y





Competencies



Strengths



Data Mining

Usage, ethics, legal issues

Theoretical basis Large/complex data sets Tools and frameworks Complementarity	Data preservation Data-bases in many disciplines Massive and long-term storage	Access Preservation
Society impact of open/big data Epistemology and ethics Media studies	Large infrastructures Massive computing Cutting edge technology (virtualisation, cloud) etc.)	Infrastructure





Needs



Trans/Inter disciplinary Multi-disciplinary approach cooperation Data **Common Platforms for** Access expertise exchange and **Advanced and Student training** Mining **Preservation** cooperation programs **Common centrally managed** resources SHS expertise mutualisation Inter-connectivité, distributed ressources, basic infrastructure Interdisciplinary cooperation Usage, Infrastructure ethics, Training Training legal issues New topics: security **Experts in data managment** psicho-social and use impact « Big data »-like expertise





Opportunities



Data Mining	Collaboration on methods and algorithms across disciplines Common projects on themes across disciplines (examples: e-pub, biodiversity, health, social networks, urban analytics etc.) Enhance the links with regional authorities	Common databases and their usage (language, bioinformatics, etc.) Develop common frameworks Scientific data preservation Heteregenous data integration	Access Preservation
Usage, ethics, legal issues	Impact on management Ethics and society impact of big data (example: personal genomics) Legal issues of big data: medial data, security, intellectual property	AMU scientific data infrastructure	Infrastructure





M³AMU

Mésocentre Multi-Modalités in AMU

HPC, grid, cloud, storage for scientific computing and Big Data

- Project M3AMU funded by CPER/FEDER/CD13 (2016 1018) :
- Update + extension of the resources: +50 % more powerful
- Permanent storage close to the computing nodes
- Interface to the CPPM grid
- Cloud computing

HORIZON



Choosing an infrastructure for massive data: storage & processing?



10 Gb/s network: LHCONE



Project idea



- Describe your project idea
 - AMU "Big Data" : hub to large number pf competencies
- List of the complementary skills you need for your consortium
 - Collaborations with academic/industrial partners on specific projects to be developed





