

COST Action IC1305

2014 | 2018

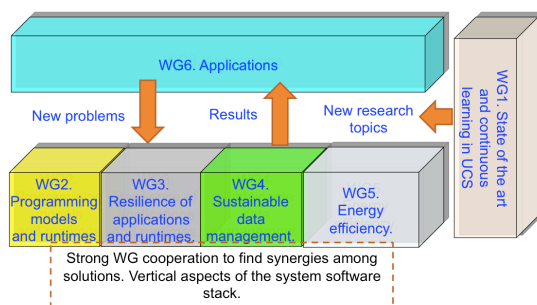
Network for Sustainable Ultrascale Computing (NESUS)

Objectives

- Aim of the Action: To coordinate European efforts for proposing realistic solutions addressing major challenges of building sustainable Ultrascale Computing Systems (UCS) with a holistic approach.
- Objectives:
 1. To increase EU research in the field of sustainable ultrascale computing.
 2. To give coherence to the European ICT research agenda related to sustainability.
 3. To build a multi-disciplinary forum for cross-fertilization of ideas for sustainable ultrascale computing.

Working Groups

- WG 1: State of the art and continuous learning in UCS.
- WG 2: Programming models and runtimes.
- WG 3: Resilience of applications and runtimes.
- WG 4: Sustainable data management.
- WG 5: Energy efficiency.
- WG 6: Applications.



First Year Plan and Challenges

- Create the organization structures
- Create the Action plans: strategic, dissemination, collaboration, ..
- Create the dissemination & collaboration Web tools
- Identify scientific synergies
- Set up collaborations
- Work on common topics between different participants
- Produce first results
- Plan goals & activities for second year

Main Achievements

- Strong interest in the scientific community.
- IPC and NNC institutions participating or applying for participation.
- Organization structure already created. Working on action plans and dissemination tools.
- Compromise to offer, at least, 15 STSM.
- Strong activity in dissemination and cooperation in conference organization.

Dissemination

- Presentations foreseen in:
 - ❖ IEEE Cloudnet (Luxembourg), EuroMPI/ASIA (Japan).
- Expert panel in Supercomputing 2014.
- Cooperation in workshops:
 - ❖ C4Bio, ExtremeGreen, TASUS, Heteropar, APCIE, IEEE Cloudnet, Esaa2014

www.cost.eu/ict

Information and
Communication
Technologies
(ICT)



Participating countries: 30

AT, BE, BG, CH, CY, DE, DK, EE, EL, ES, FI, FR, HR, HU, IE, IL, IT, LT, LU, MK, MT, NL, NO, PL, PT, RO, SI, SK, SE, TR, UK

Global Collaboration:

AU, CA, IN, MX, US

Contact details

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NESUS

Network for Sustainable
Ultrascale Computing



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