

## Network for Sustainable Ultrascale Computing (NESUS)

### Aim of the Action

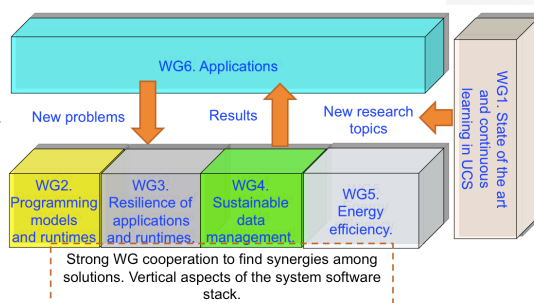
- Aim of the Action: To coordinate European efforts for proposing realistic solutions addressing major challenges of building sustainable Ultrascale Computing Systems (UCS) with a holistic approach.
- NESUS will contribute to the development of the sustainable ultrascale computing concepts by pursuing research activities in topics such as sustainable solutions for applications, system software stack, data management, energy efficiency, and resilience.

### 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.



### Activities Foreseen

- Working Groups meetings.
- Action workshops (1 per year).
- Short term research visits (15 per year).
- Training schools and Doctoral Symposiums.
- Joint publications: papers, reports, newsletters, research roadmap, ...
- Conference organizations.
- Industrial seminars.
- Liaison with other research programs and standardization bodies.

### Cooperation in Conference Organization in 2014

- Presentations foreseen in:
  - ❖ CCGrid (Chicago), MIPRO (Croatia), IEEE Cloudnet (Luxembourg).
- Expert panel in Supercomputing 2014.
- Cooperation in workshops:
  - ❖ C4Bio, ExtremeGreen, TASUS, Heteropar, APCIE, IEEE Cloudnet, Esaa2014

### Openness to New Members

- Consortium is open and expertise will be welcomed in every WG.
- Policies to promote early stage researchers and gender balance.
- Membership applications through NESUS web page.

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

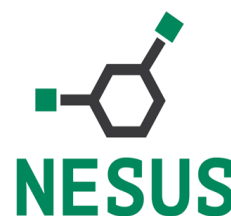
Global Collaboration:

AU, CA, IN, MX, US

Contact details

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