



TECHNISCHE  
UNIVERSITÄT  
DRESDEN

# Closing slides

EnA-HPC 2013

Zellescher Weg 12

Willers-Bau/Treffts-Bau

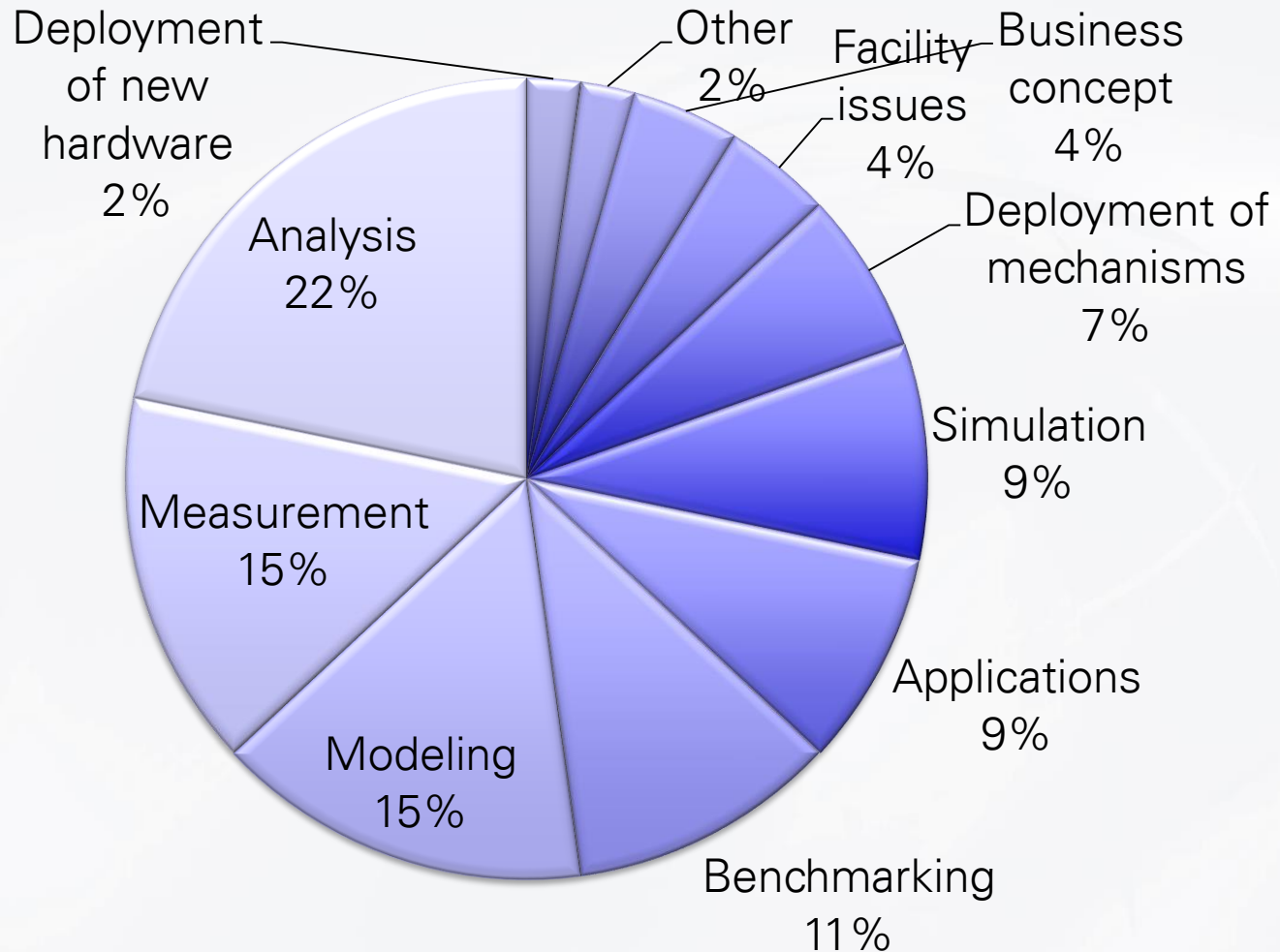
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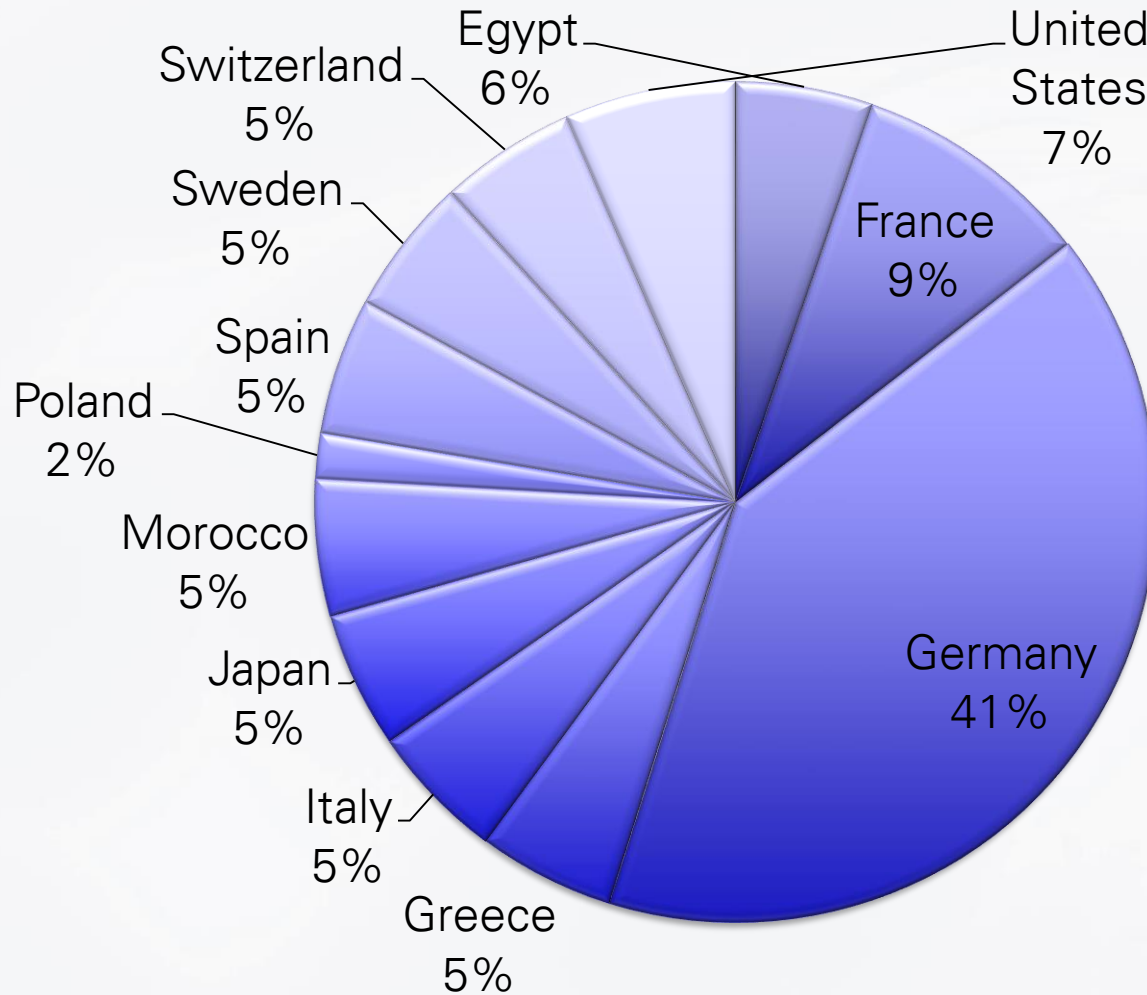
E-mail: [zih@tu-dresden.de](mailto:zih@tu-dresden.de)

- After 3 years in Hamburg, the first time in Dresden
- 10 scientific talks
  - From device scale to data center scale
  - Modeling and measurement
- 5 vendor talks
  - How can energy efficient HPC systems be implemented?
  - How should we cool systems efficiently?
  - What is the future of DRAM?

# Statistics (1) Submission Topics



# Statistics (2) Submissions Origin



# Whom to thank?

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- Conference chairs

*Wolfgang E. Nagel, Thomas Ludwig, Matthias Müller*

- Program committee

*Cosimo Anglano, Costas Bekas, Dzmitry Kliazovich, Enrique S. Quintana-Orti, Francisco Javier García Blas, Jean-Marc Pierson, Julita Corbalan, Kalyan Kumaran, Laurent Lefevre, Natalie Bates, Simon McIntosh-Smith, Vincent Heuveline, William Barton Sawyer*

- Local organizer

*Robert Schöne*

- Sponsors

*Bull, IBM, Intel, Megware, Samsung, Gauss Allianz*

- DKRZ / University Hamburg staff

*esp. Michaele Hensel, Michal Kuhn*

- ZIH staff

# Preview 7<sup>th</sup> Parallel Tools Workshop

- More and more tools include energy efficiency metrics
- We are not the only ones that provide such metrics, but this is how we include it in our analysis tool-suites

Temperature  
Cache Misses  
Power consumption  
Proc. sleep state  
Proc. frequency  
Avg. proc. frequency



# Last words

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- Be sure, that we have your slides
- The slides will be published on the website
- The photos will also be on the website
- If you need anything (call a taxi, get a lunch ticket), please tell us
- Have a nice stay / journey
- The flash drives are biodegradable (polylactic acid)

See you next year



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