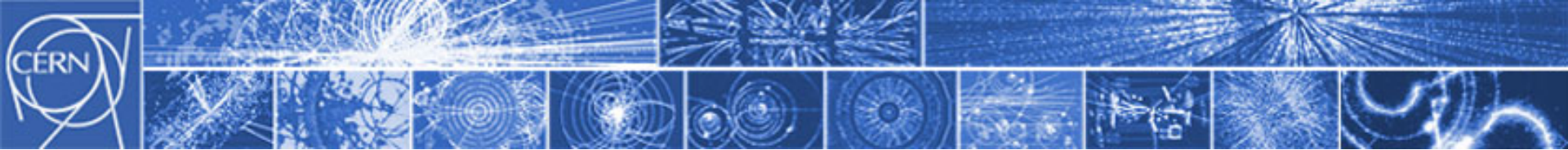




CERN's partnership with IT industry

- Created in 2002
- Phase I: 2003-2005
- Phase II: 2006-2008
- Phase III: 2009-2011



- A science – industry partnership to drive R&D and innovation
- Started in 2002, now in second phase, phase 3 under preparation

Motto: “you make it – we break it”

- Evaluates state-of-the-art technologies in a very complex environment and improves them
- Test in a research environment today what will be used in industry tomorrow

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PARTNERS

hp
invent

intel

ORACLE

CONTRIBUTORS

EDS

P-SECURE

STONESOFT

- Two kinds of relationships:
 - Partners
 - Engagement for three years
 - Contribution 800 kCHF/year (500k€)
 - 50% in cash to fund personnel, 50% in-kind or services
 - Contributors
 - Engagement for one year
 - Contribution of 240kCHF (160k€)
 - 50% in cash as well

- Partners: Enterasys, HP, IBM, Intel & Oracle
- CERN opencluster: a major success
- Significant contributions to the LHC Computing Grid Project
 - 10Gb/s technology and long-distance networking
 - 64-bit technology, high-performance cluster
 - CFD calculations for experiments
 - Open software, compiler technology, tuning
 - Streaming for data-replication
 - Experience with complex data storage
- Many workshops, visits and partner events
- Participation and support in conferences

- Formal relation with EGEE
- Stronger emphasis on funding young scientists
- Main areas of collaboration:
 - Platform Competence Centre
 - Grid Interoperability Centre
 - Analysis and management of large complex network infrastructures
 - Security (completed in 2007)
 - Grid Monitoring
 - Marketing events
- Supported EGEE conference



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CONTRIBUTORS



- Covers 2009-2011
- Extensions under preparation with present partners
- Discussions on-going with possible new partners
- New topics
 - Multi-core, many core
 - Memory optimization
 - Power reduction
 - Control systems and PLC security
 - Extended Grid monitoring
 - Green IT – new data centre
- Siemens just became partner





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openlab is also about people

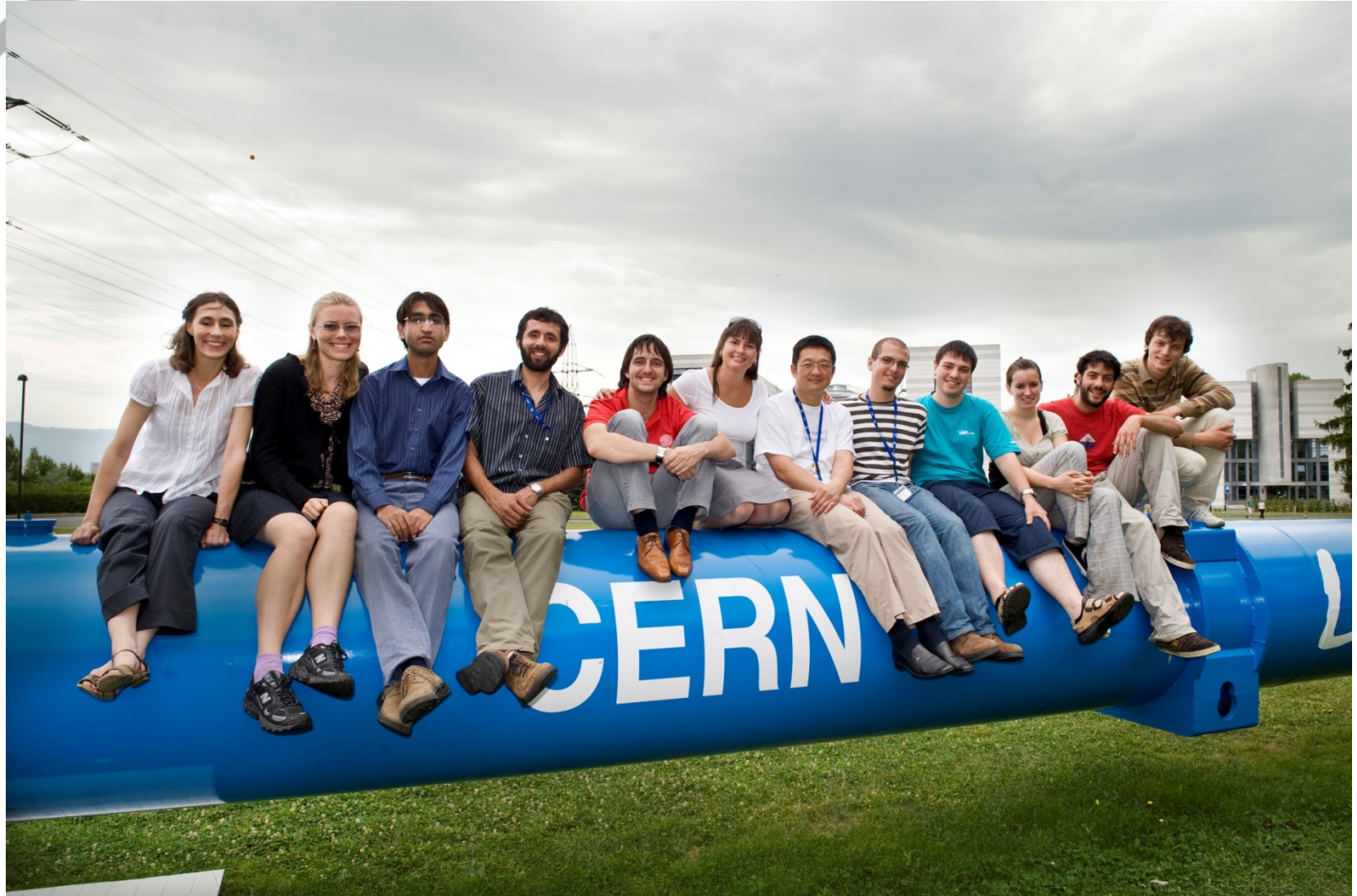


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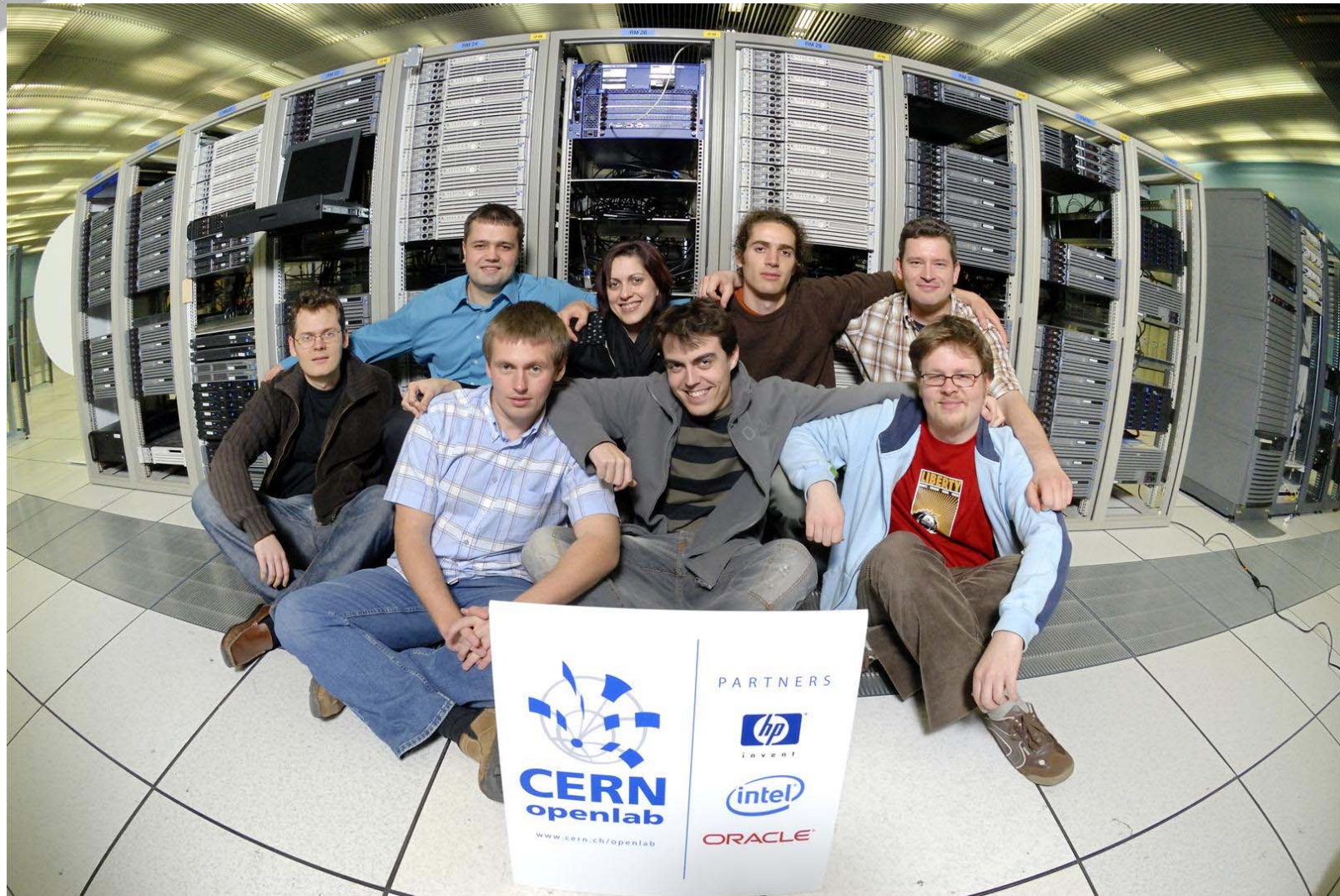
openlab students



3 October 2008

openlab students & supervisors







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openlab Board of Sponsors



3 October 2008

- openlab has established it self as a reference
- Good balance between near-term and mid-term R&D
- Continuous stream of results due to long-term partnerships
- openlab has trained many young scientists
- LHC computing has profited directly

- A big “thank you” to our partners and contributors