

# ICT Research Infrastructure in Poland

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## PIONIER – Polish Optical Internet

- 6494 km of optical fibers covering the whole country
- Educational and Research Network
- access to PIONIER and European GÉANT for the whole research community in Poland
- test environment for advanced applications and services ⇒  
*steps toward Future Internet infrastructure & research*

## PIONIER – Polish Optical Internet



## Supercomputing Centres in Poland

- 5 supercomputing centres in Poland
- 3 supercomputing centres in Top500\*:
  - ✓ **#81 – ZEUS**, Academic Computer Centre CYFRONET AGH, Cracow  
*Spec.: Cores 11694,  $R_{max}$  104,7 Tflops,  $R_{peak}$  124,4 Tflops (2011)*
  - ✓ **#163 – GALERA PLUS**, Gdansk University of Technology, CI TASK  
*Spec.: Cores 10384,  $R_{max}$  65,6 Tflops,  $R_{peak}$  97,8 Tflops (2011)*
  - ✓ **#194 – SUPERNOVA**, Wroclaw Centre for Networking and Supercomputing  
*Spec.: Cores 6348,  $R_{max}$  57,4 Tflops,  $R_{peak}$  67,5 Tflops (2011)*

\* June, 2011

## Development of ICT Research Infrastructure

- Constant upgrade and development of e-Infrastrucutre from state resources and structural funds
- Development of ICT research infrastructure financed from EU structural funds under *Operational Programme „Innovative Economy” 2007-2013*, e.g.:
  - ✓ **PL-Grid** - *Polish Infrastructure for Supporting Computational Science in the European Research Space (Budget: ~€ 18.14 m, Duration: 2009-2012)*
  - ✓ **PLATON** - *Service Platform for e-Science (Budget: ~€ 19.00 m, Duration: 2009-2011)*
  - ✓ **NewMAN** – *development of 21 regional networks (Budget: ~ € 19.95 m, Duration: 2009-2012)*
  - ✓ **POWIEW** - *Program for Computations of Great Challenges of Science and Technology (Budget: ~ € 12.35 m, Duration: 2009-2012)*

# e-IRG WORKSHOP

Poznań 12-13 October 2011

**e-IRG**  
e-Infrastructure  
Reflection Group

<http://www.nauka.gov.pl>



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