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Welcome & Introduction

9th International Workshop on Science Gateways

19-21 June 2017



Where we are... (1617's perspective)





Poznań University of Technology

Adam Mickiewicz University in Poznań

Poznań University of Economics

Poznań University of Medical Sciences

Poznań University of Life Sciences

The Eugeniusz Piasecki University School of Physical Education in Poznań

The Ignacy Jan Paderewski Academy of Music in Poznań

University of Arts in Poznań

Collegium da Vinci

Poznań College of Communications and Management

Poznań School of Logistics Poznań Trade and Commerce College

Poznań University College of Business

University of Social Sciences and Humanities (USWPS)

WSB University in Poznań



**e-Infrastructure
Cyberinfrastructures**

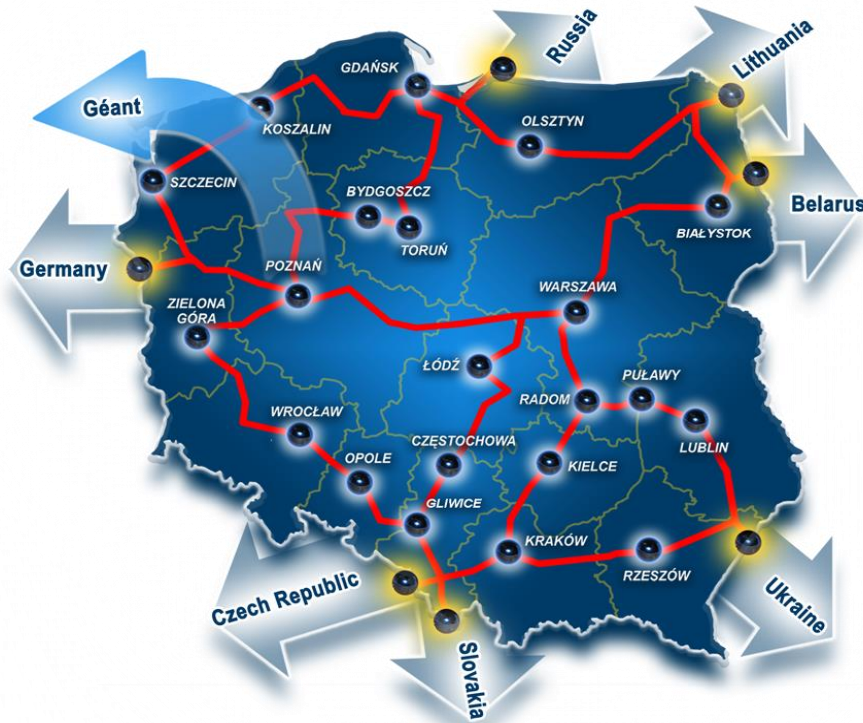
Scientific Use Cases
Scientific Use Cases II

Science Gateways

Components and platforms

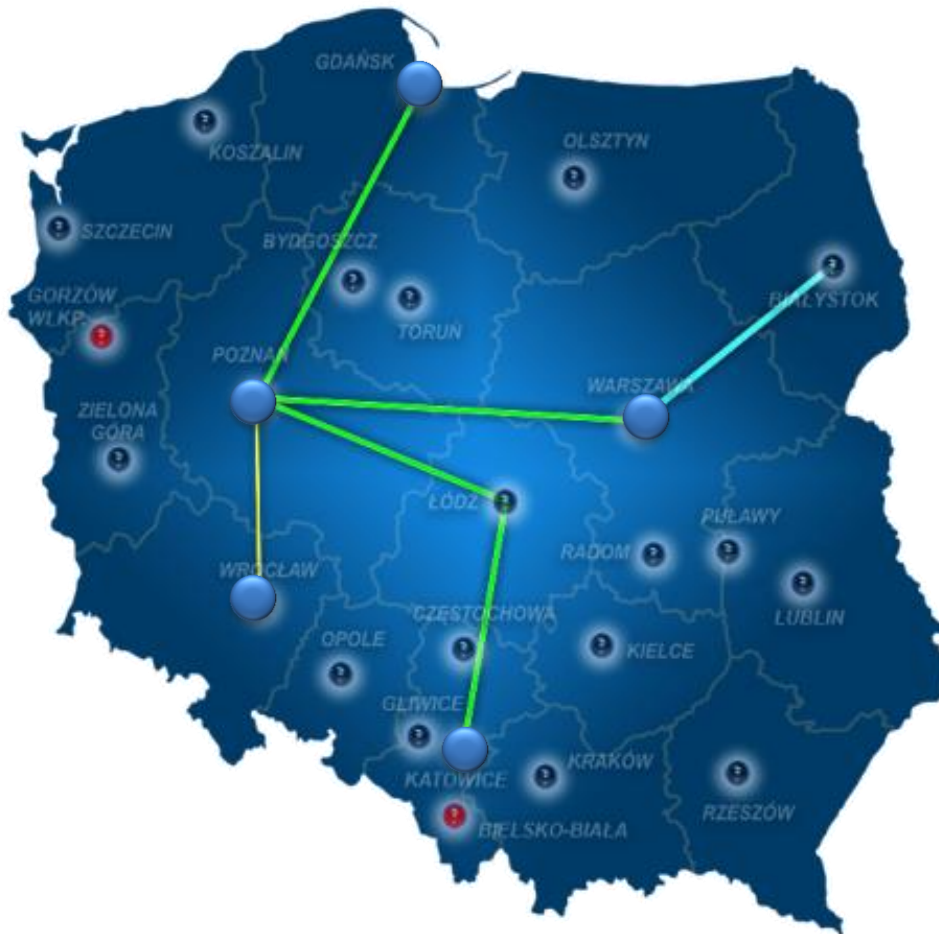
Collaborative Science Gateways

Next Generation Network in Poland - PIONIER (2017)

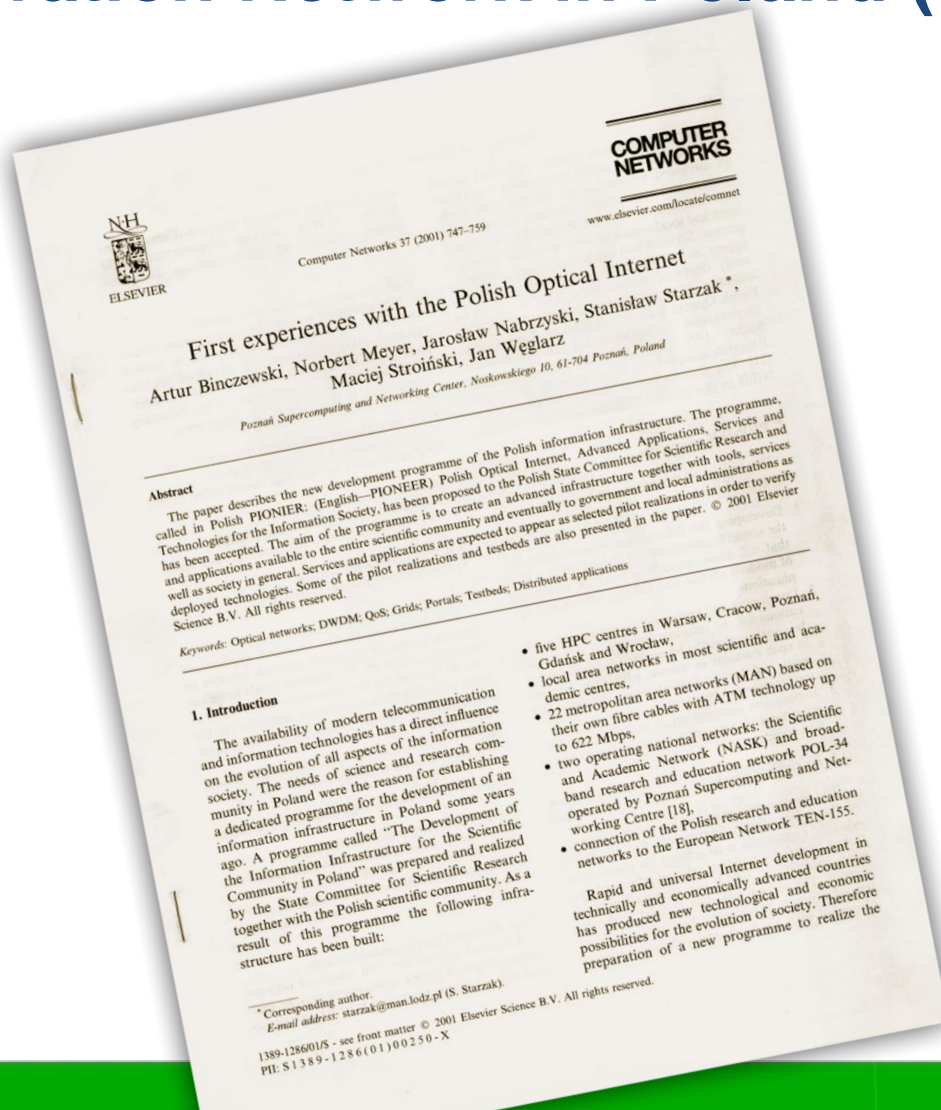


- Area **312k sq km**
- Population **38M**
- Main academic centers **21**
- State Universities **165+**
- Students **2M+**
- R&D institutions and Universities interconnected via NREN PIONIER network **700+**

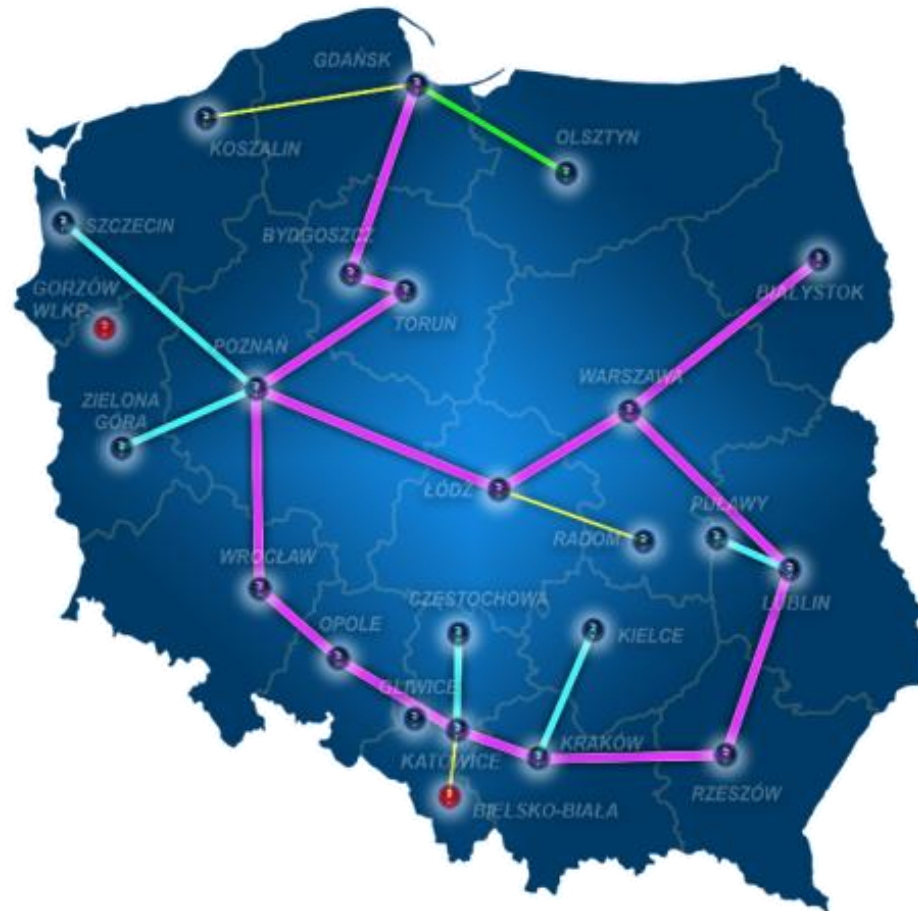
Next Generation Network in Poland (1997)



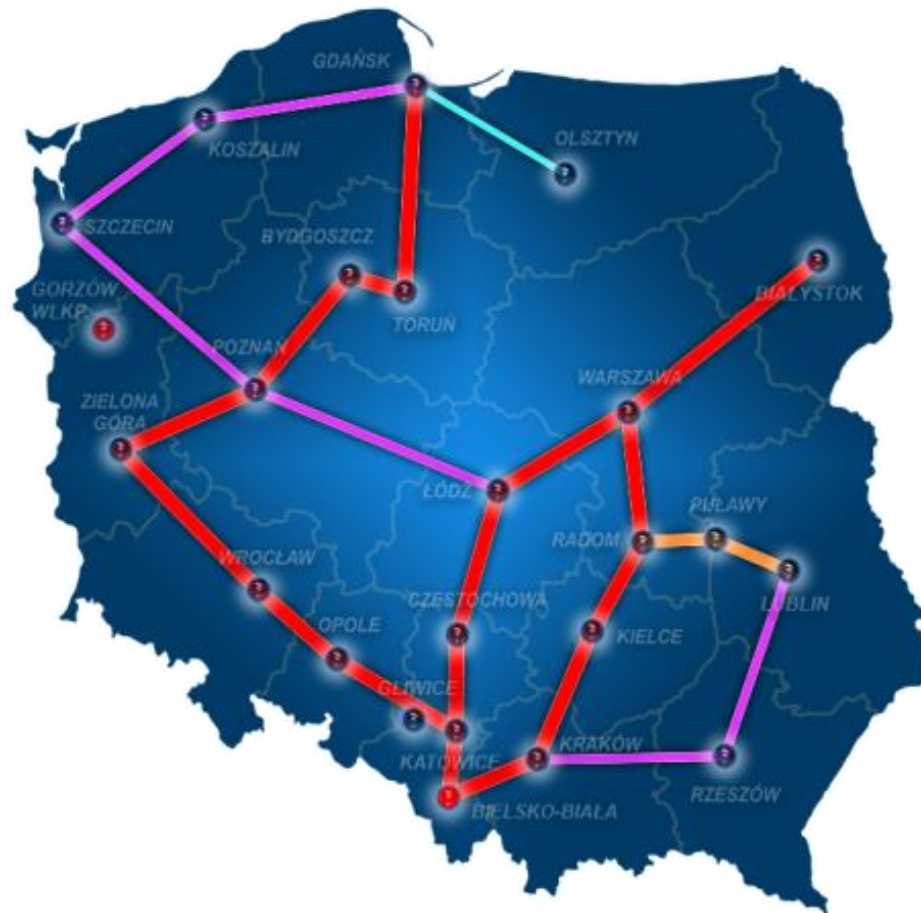
Next Generation Network in Poland (1999)



Next Generation Network in Poland (2001)



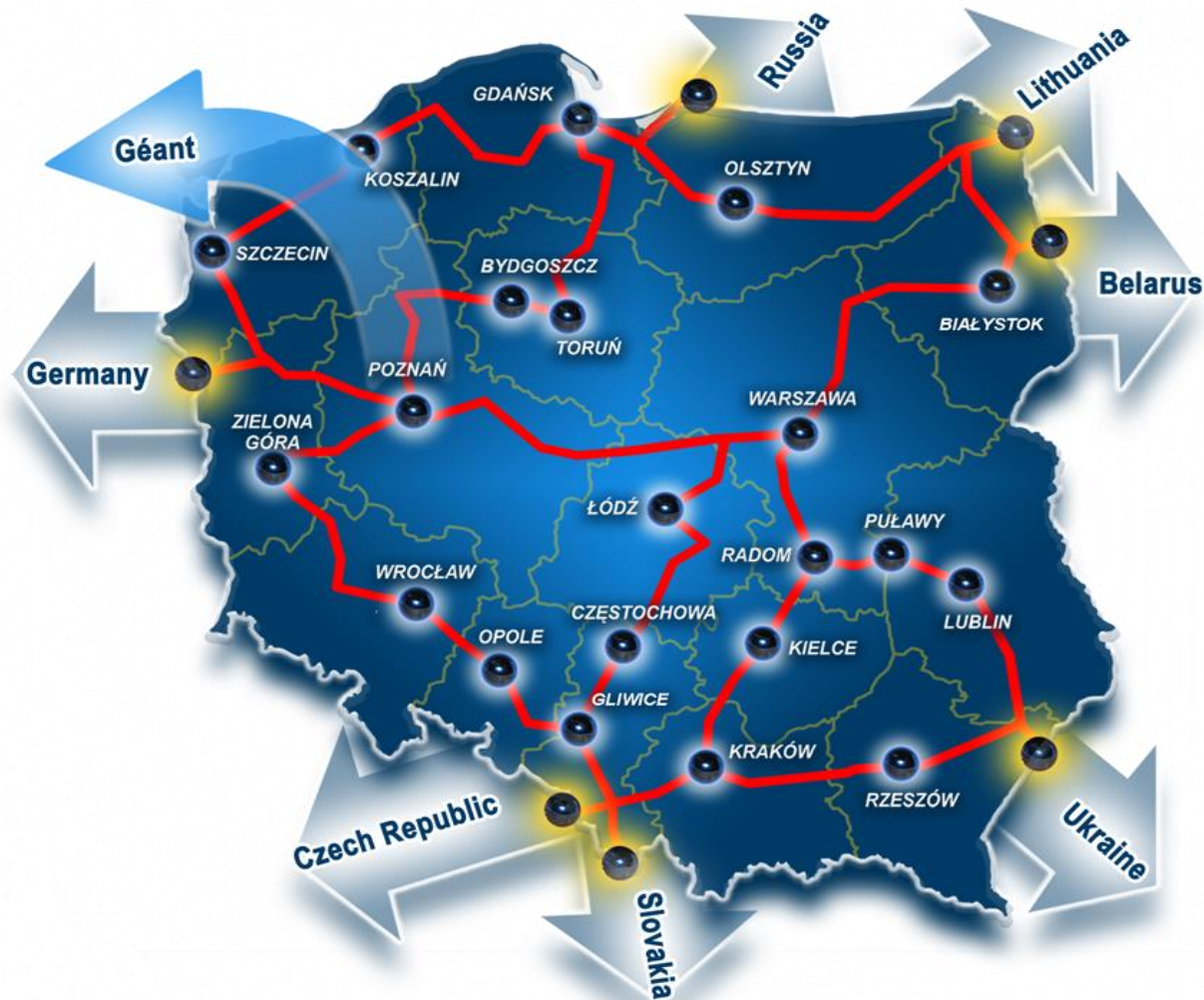
Next Generation Network in Poland (2004)



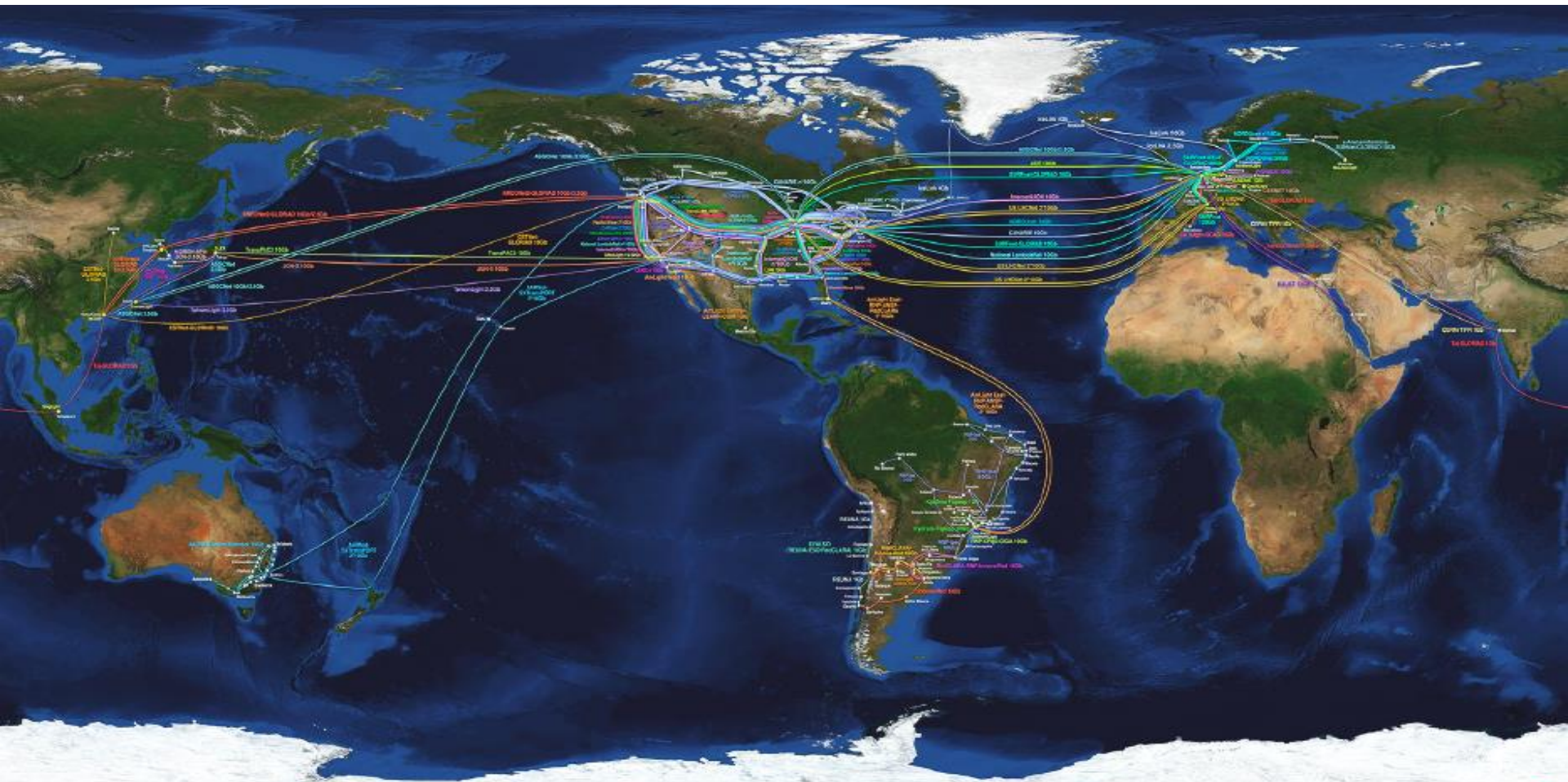
Next Generation Network in Poland (2006)



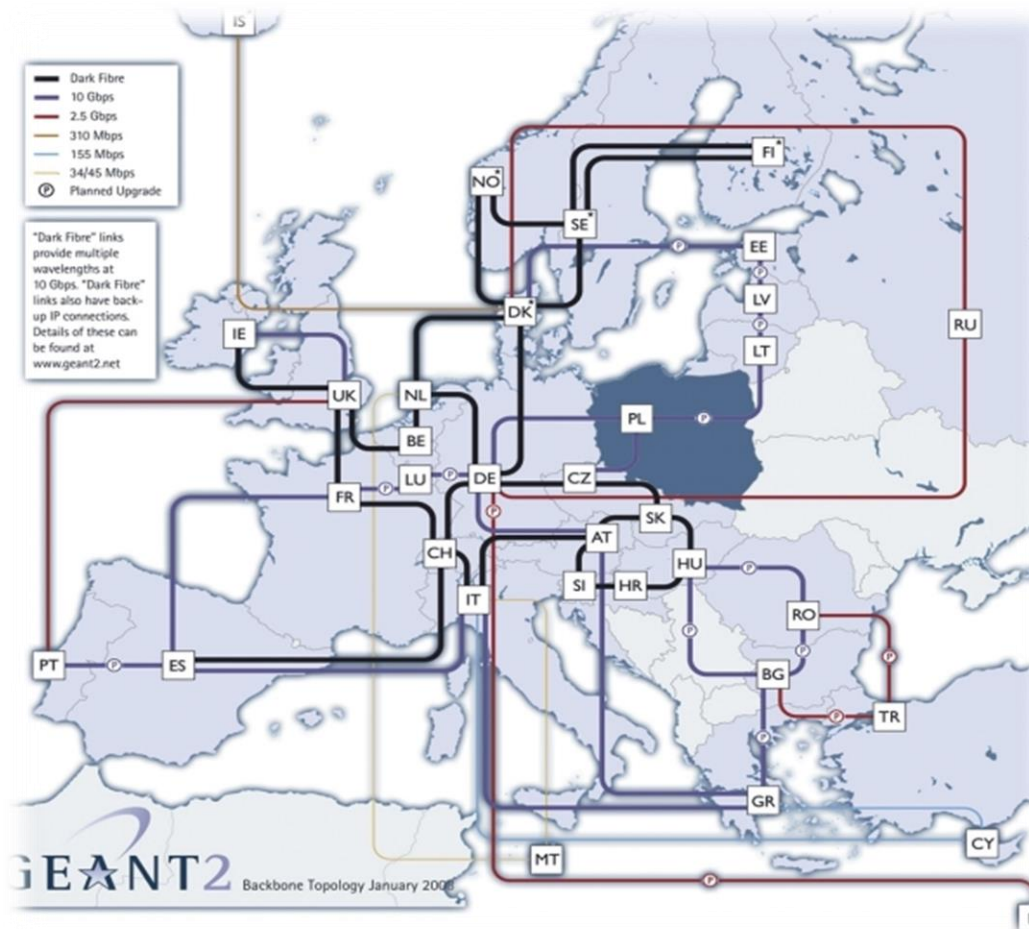
Next Generation Network in Poland (2008)



Next Generation Network in Poland (2009)



Links to Geant via 100Gb/s (2017)



PIONIER in Europe (2017)

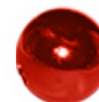
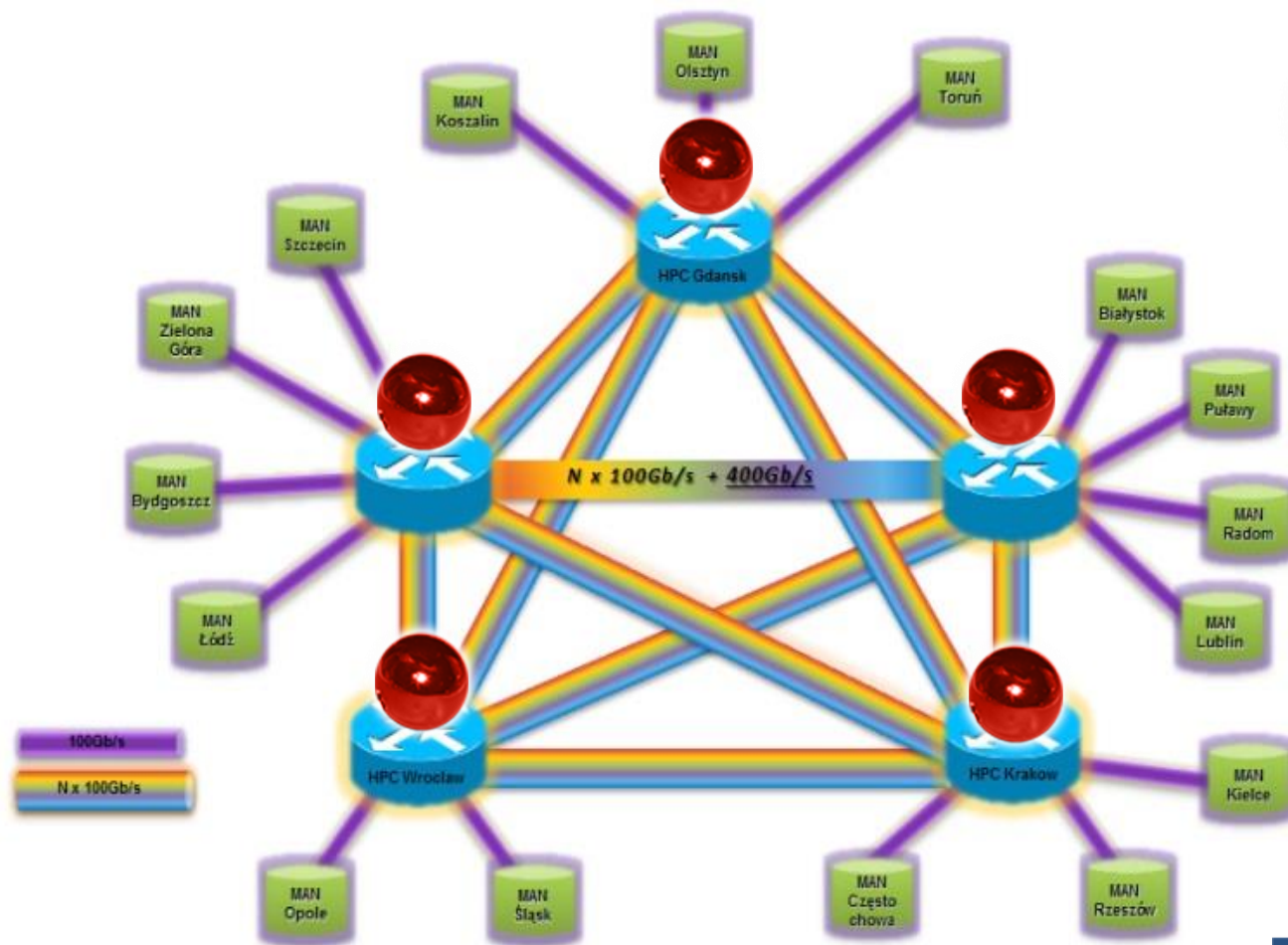


Supercomputing at PSNC (2017)



- **1,4 Pflops**, 80th Top500
- 1300+ nodes, 90K+ cores, Xeon E5 v3
- Many additional computing and storage facilities (**20PB**)
- First Direct Liquid Cooling installation in Poland
- Supports HPC (national & EU-wide R&D in PRACE)
- HPC in the cloud (OpenStack)








HPC Centers

Example added-value services for higher education (2008-2014)



-  HD Videoconference services
-  Deployment of AAI & eduroam services
-  Applications on Demand for campuses
-  Archiving on Demand
-  Science HDTV and CDN services

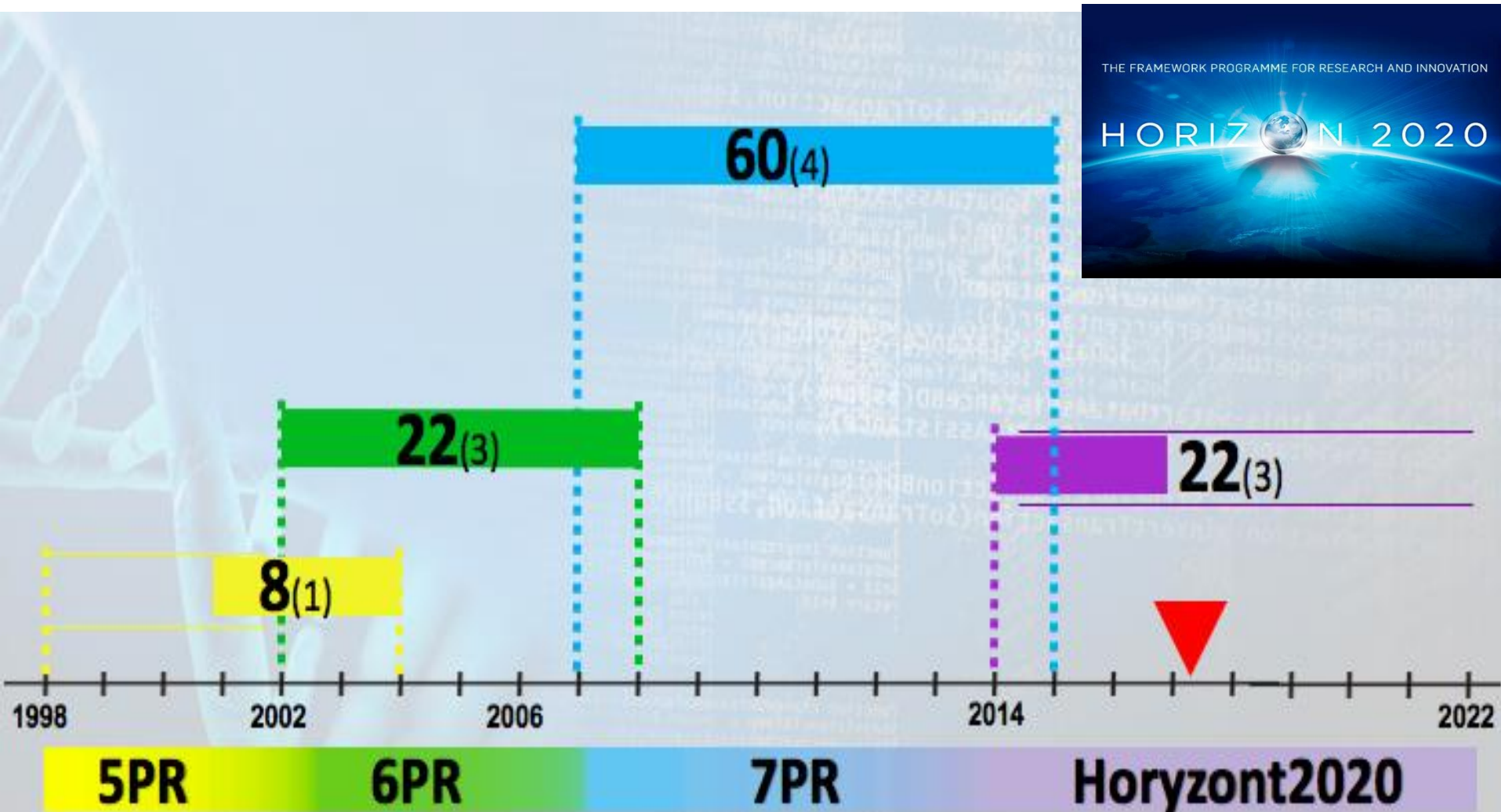
Federated digital libraries for higher education (2001-2016)

Basic statistics:

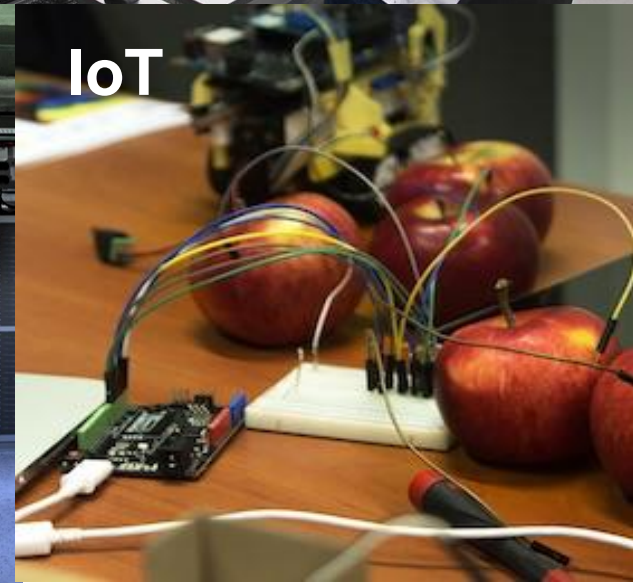
- ~ 100 digital libraries
- several hundreds of cultural and scientific
- Institutions
- ~4 mln+ digital objects



PSNC R&D activities in Europe (2017)

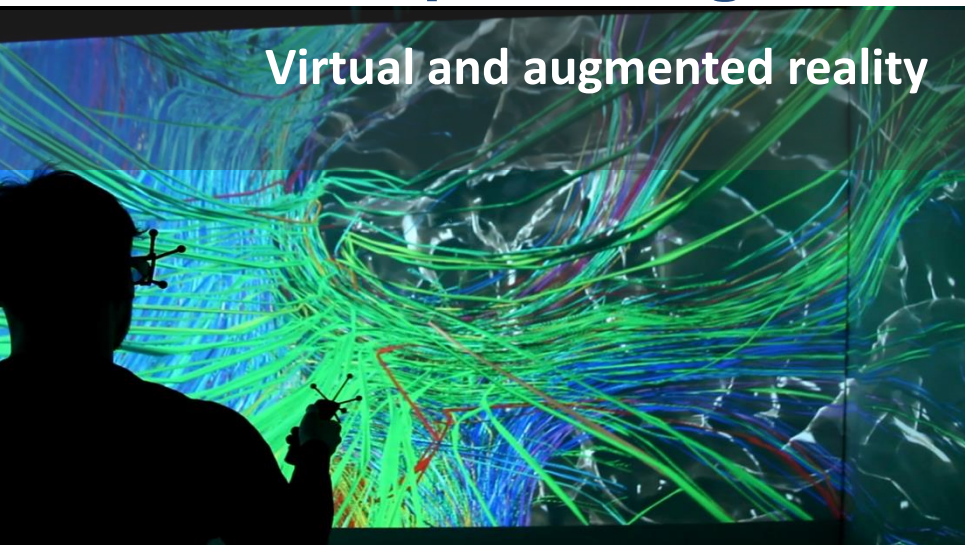


Example PSNC Labs (2013-2015)



Example Living Lab: Future School Laboratory

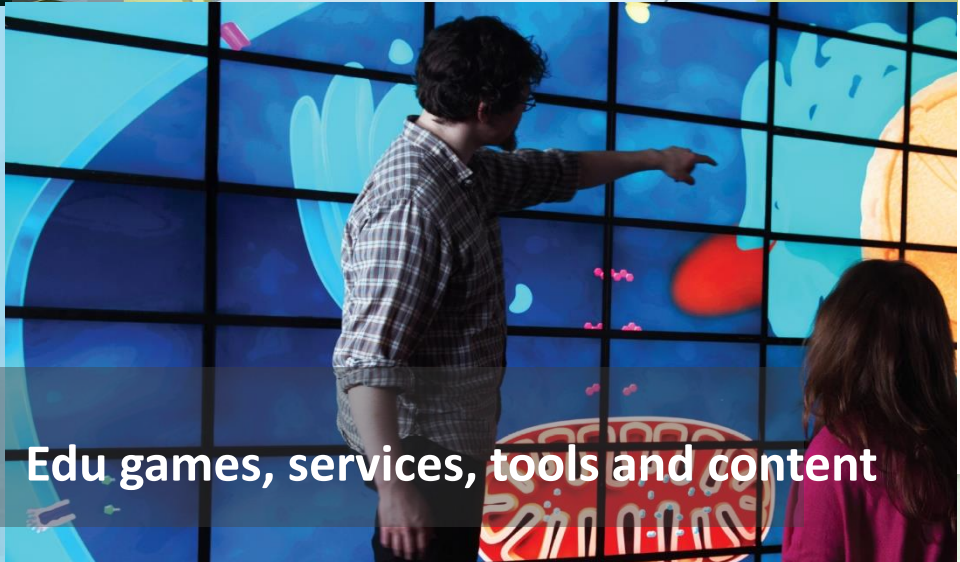
Virtual and augmented reality



Living lab for schools and kids



Poznań, ul. Zwierzyńska 20



Edu games, services, tools and content

PSNC innovation ecosystem



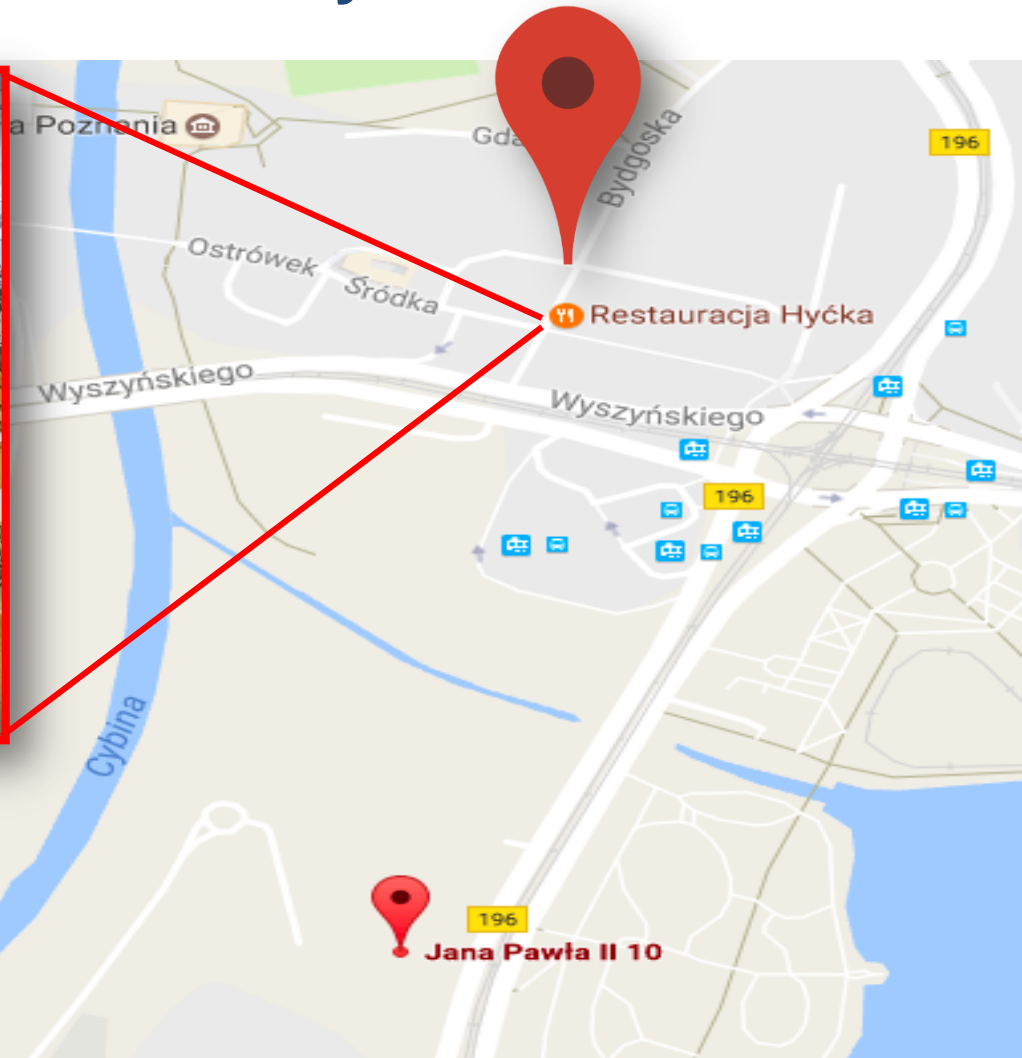
Logistics for today

12:00 – 13:00	LUNCH & Registration
13:30 – 14:30	Keynote Speaker: <i>Peter Coveney</i>
15:00 – 15:30	Coffee break
17:15 – 18:00	Panel discussion
18:00 (10 min)	Welcome Reception

Logistics for today



Logistics for today



Workshop Chairs:

Sandra Gesing, University of Notre Dame, USA

Tamas Kiss, University of Westminster, United Kingdom

Krzysztof Kurowski, PSNC, Poland

Local organisers:

Tomasz Piontek & Dawid Szejnfeld, PSNC, Poland



Thanks for coming!

Enjoy!

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