

The background of the slide is a composite image. The top half is green with a network diagram. The bottom half is blue with a hexagonal pattern. A photograph of a modern building with large windows is visible on the left side.

**perfSONAR in PSNC**  
*ASTRON perfSONAR training*  
*Szymon Trocha*  
Poznań Supercomputing & Networking Center  
September 24-26, 2018

## PIONIER NREN

- Polish NREN
  - 21 MANs
  - International connectivity
  - 5 HPCs
- PSNC operates and manages
- 24/7 NOC



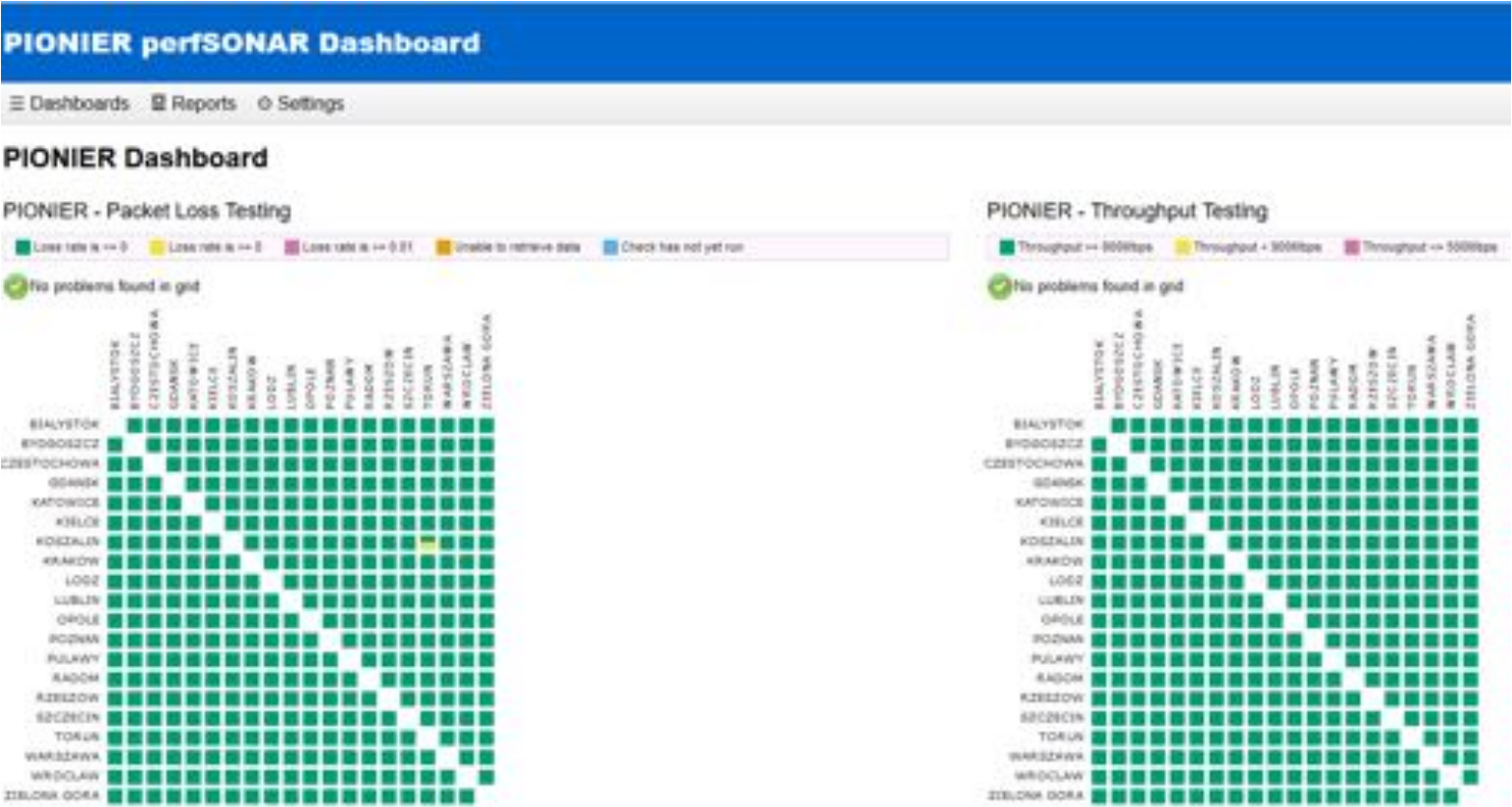
## PIONIER perfSONAR deployment

- Juniper MX switch at each MAN PoP
- perfSONAR instances in all nodes
  - Dell servers with 10GE interface
  - Connected to MX switch
  - Measuring loss and throughput
  - Full mesh
- Data exported to central server in Poznań for archiving and presentation (dashboard)
- Additional servers with VMs





# PIONIER perfSONAR deployment (dashboard)



## Next steps

- Challenges
  - Update / upgrade
- Plans
  - More instances
    - Border
    - Metro



# **Poznań Supercomputing and Networking Center**

**affiliated to the Institute of Bioorganic Chemistry of the Polish Academy of Sciences,**

**ul. Jana Pawła II 10, 61-139 Poznań, POLAND,**

**Office: phone center: (+48 61) 858-20-01, fax: (+48 61) 850-25-01,**

**e-mail: [office@man.poznan.pl](mailto:office@man.poznan.pl), <http://www.psnc.pl>**