

eIRG delegates meeting report from Slovakia

27 November 2024

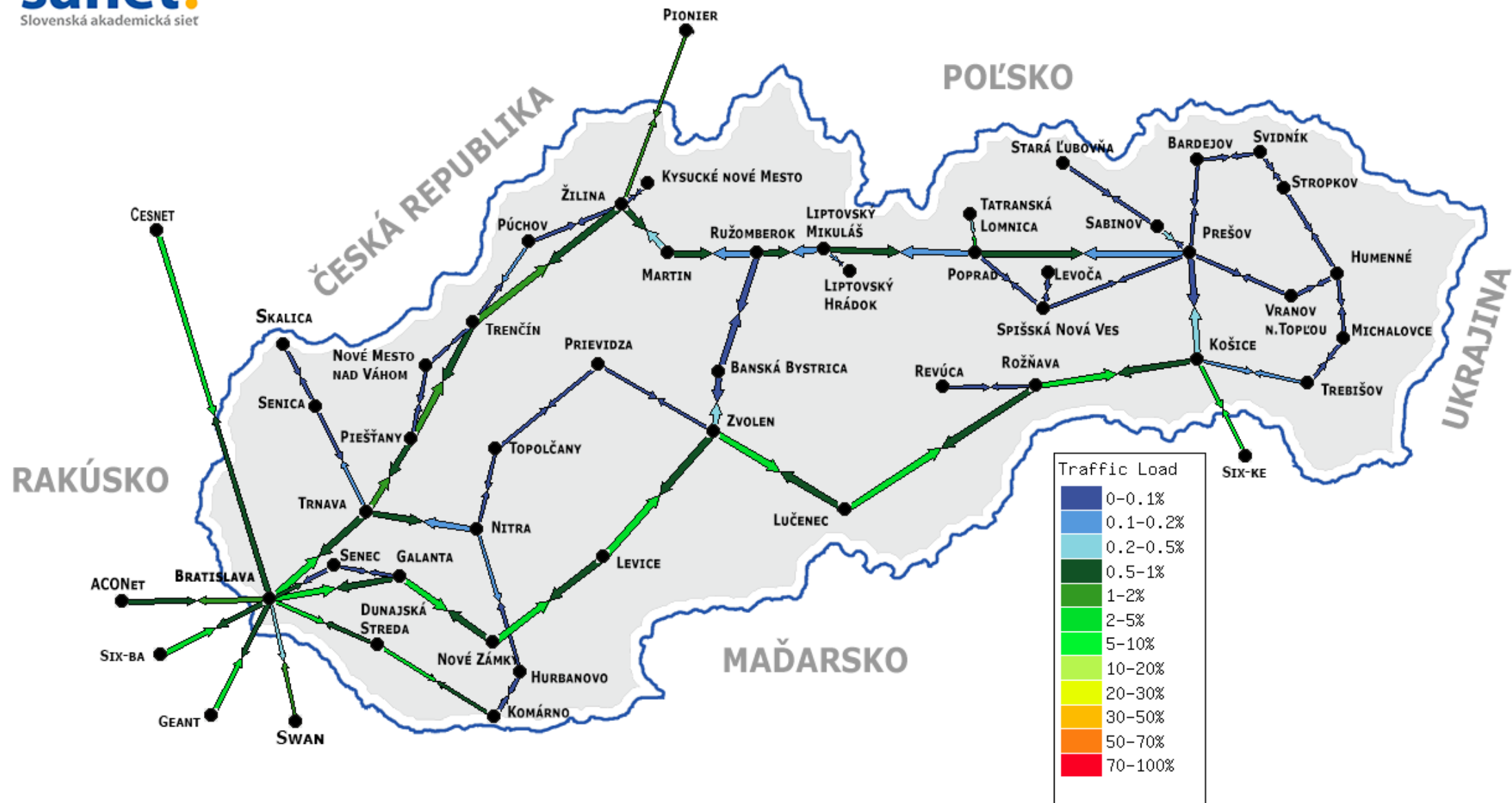
budinska@savba.sk



- SANET operates research & educational network in Slovakia since 1991 and connects universities, research institutes and schools to high-speed N * 100Gb/s backbone. Schools are connected to SANET by 1Gb/s links, universities and research institutes by 10Gb/s – 100Gb/s links.
- SANET is not the organisation managed by the Ministry of Education of the Slovak Republic. The Ministry of Education contributes to SANET operation by the subsidy for high schools and universities.



SANET - Slovenská akademická dátová sieť





SANET services

1. Access to the academic net SANET
2. Access to the academic gigabit network GEANT
3. Internet access

TERENA Certificate Service (TCS) for member organizations.





SANET – financing 2023

- Grants for research projects
- by the Ministry of Education and Culture of the Slovak Republic in the amount of EUR 2 104 616,- of which EUR 410 098,- is for the investments intended for the construction of optical routes for the expansion of the SANET network and for the purchase of network equipment



- National strategy for open science – adopted in 2024
 - <https://otvorenaveda.cvtisr.sk/narodna-strategia-otvorenej-vedy/>
- National project – Building OS ecosystem
- National repository – still missing



Projects – Institute of informatics SAS



EOSC Beyond: advancing innovation and collaboration for research

Program: Horizont Európa

ID: 101131875

Zodpovedný riešiteľ: Ing. Tran Viet, PhD.

Doba trvania: 1.4.2024 - 31.3.2027

Artificial Intelligence for the European Open Science Cloud (AI4EOSC)

ID: 101058593

Doba trvania: 1.9.2022 - 31.8.2025

Web stránka: <https://ai4eosc.eu/>

Imaging data and services for aquatic science (iMagine)

Program:

ID: 101058625

Zodpovedný riešiteľ: Ing. Tran Viet, PhD. *Doba trvania:* 1.9.2022 - 31.8.2025



Projects – Institute of informatics SAS

Secure Interactive Environments for SensiTive data Analytics (SIESTA)

Program: Horizont Európa

Zodpovedný riešiteľ: Ing. Tran Viet,
PhD.

ID: 101131957

Doba trvania: 1.1.2024 - 31.12.2026

Leveraging the European compute infrastructures for data-intensive research guided by FAIR principles (EuroScienceGateway)

Program: Horizont Európa

Zodpovedný riešiteľ: Ing. Tran Viet, PhD.

ID: 101057388

Doba trvania: 1.9.2022 - 31.8.2025

HPC

HPC Devana - 148 compute nodes
interconnected with high-speed 100 Gb/s HDR
Infiniband data network, totaling 9,472 compute
cores, 38 TB RAM and 32 GPGPU accelerators.
The system's theoretical peak performance is
about 800 TFLOP/s.



NARODNÉ
SUPERPOČÍTAČOVÉ
CENTRUM





HPC - PERUN

- Bratislava, Slovak Academy of Sciences, performance of approximately 25 PFLOP/s
- Košice, Technical University in Košice, performance of up to 13 PFLOP/s.
- Delivery – December 2025



**TECHNICKĀ UNIVERZITA
V KOŠICIACH**

HPC - services

- Free access in open-science mode to national supercomputer – „testing and benchmarking access“ and „standard access“.
- Free access in open-science mode to European supercomputers – various modes, EuroHPC JU supercomputers.
- State-aid mode access to national supercomputer.
- Commercial access to national supercomputer.
- Commercial access to EuroHPC JU supercomputers.



EuroHPC
Joint Undertaking





Quantum computing – national project



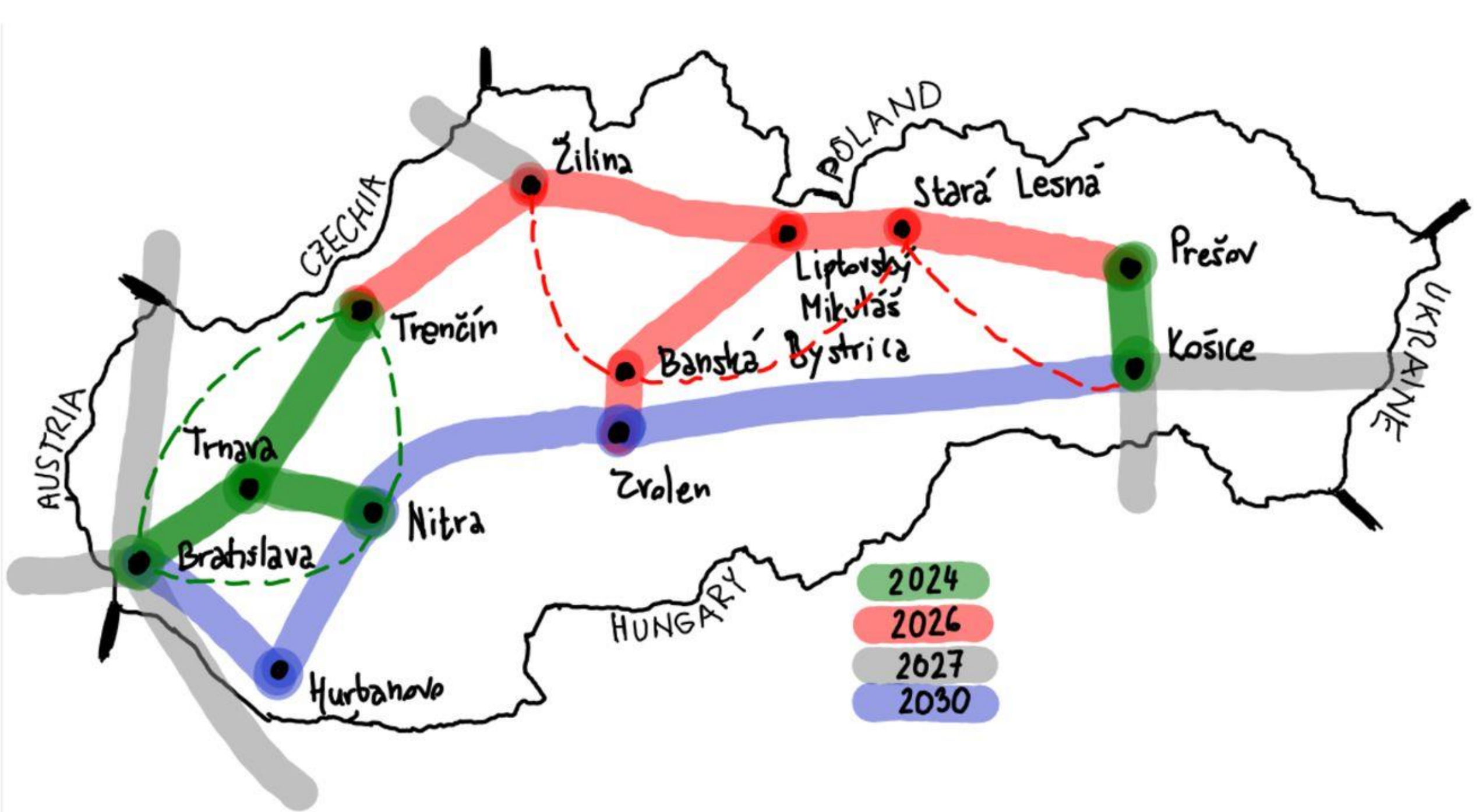


Slovak Quantum
Communication
Infrastructure

Quantum computing – communication infrastructure

- <https://skqci.qute.sk/>
- The CARLA 360 – Quantum Experience Recap, October 24, 2024
- Summer School Quantum Technologies 2, August 19 – 23, 2024, Bratislava







Thank you!

