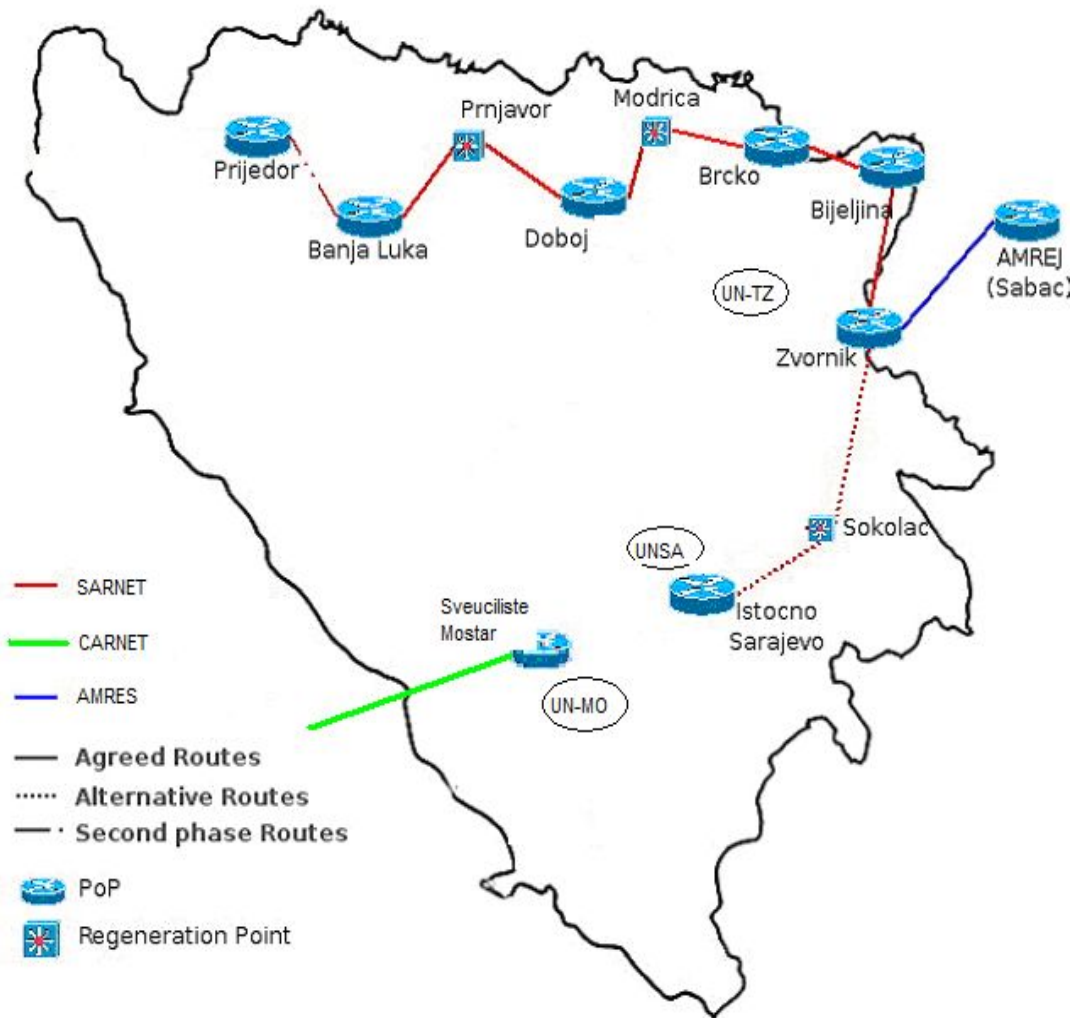

FEDERAL ACADEMIC RESEARCH NETWORK

COMMUNICATION ASPECT

Nedim Džaferović - BH TELECOM

Current situation



- SARNET is HERE
- University of Mostar is connected to CARNET
- No connection between Universities in Federation
- Some of the Universities have developed internal network

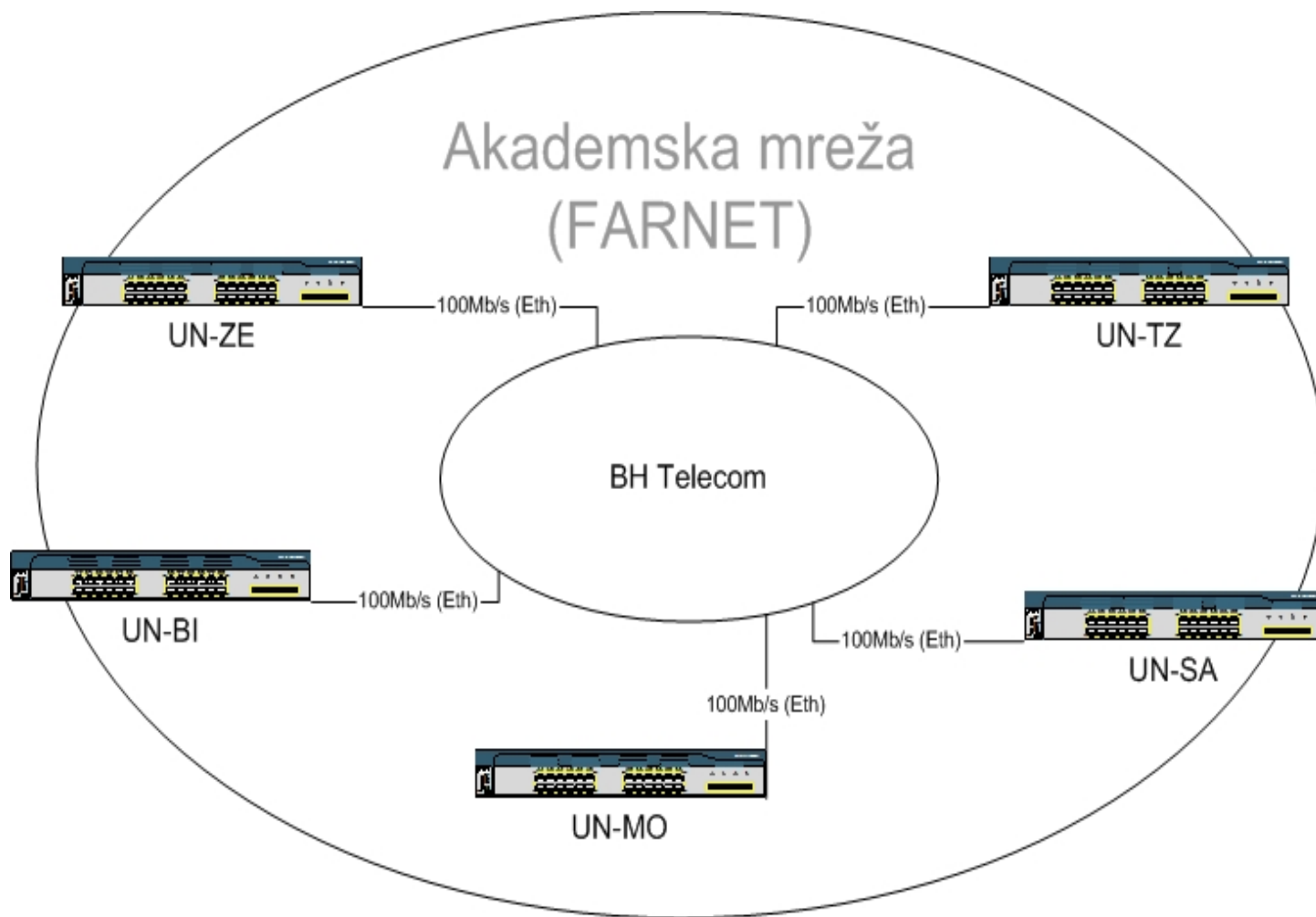
“FARNET” MAIN GOALS



step 1 – **Establish the Farnet**

- Dark-fiber between Telco and Universities
- VPN and VLAN services
- 100 Mbps real throughput
- Scalable and flexible solution
- Quick results
- Provide and maintain WAN equipment - BHT
- Lower CAPEX and OPEX

Federal Academic Research Network -

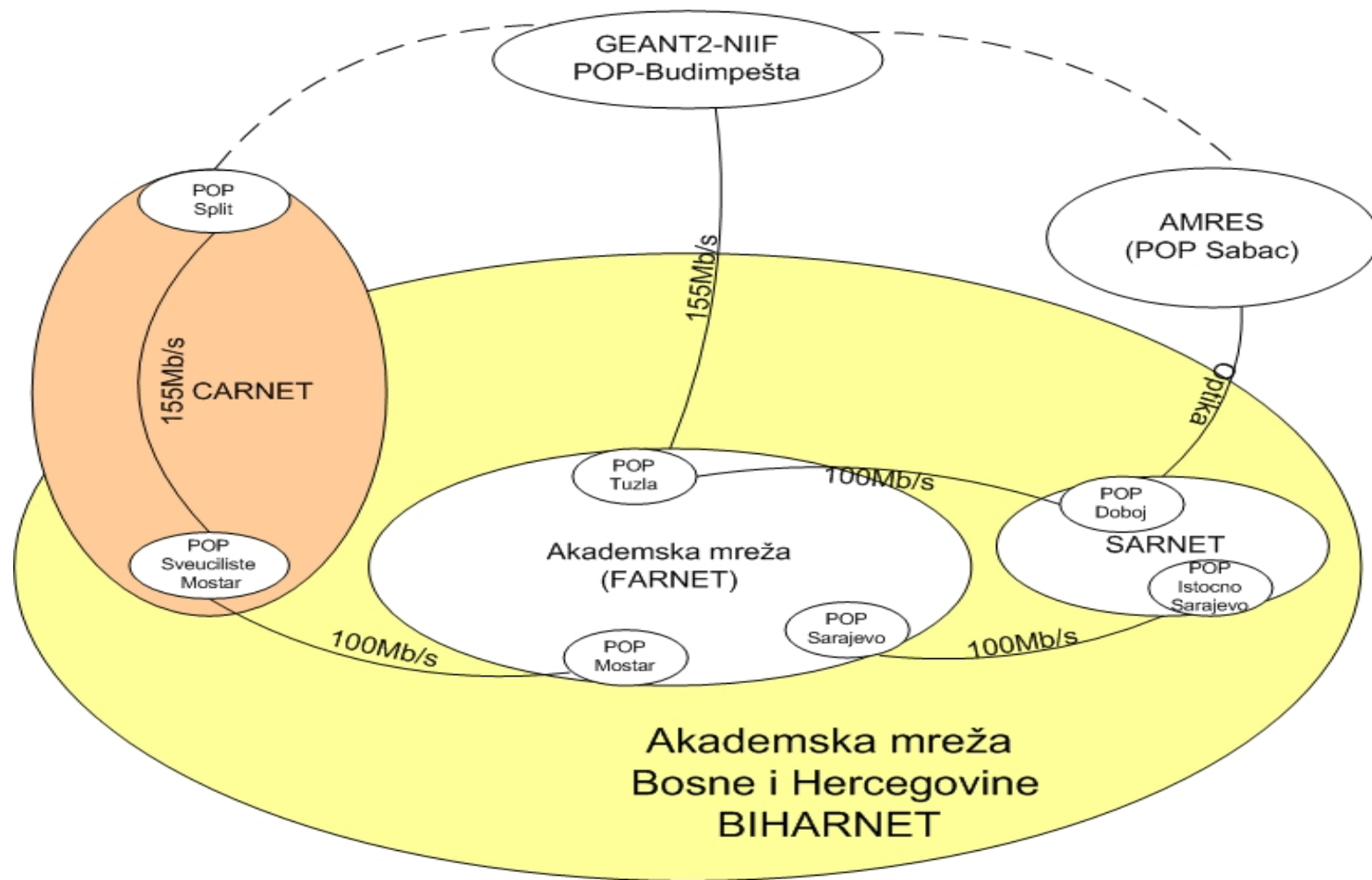


“FARNET” MAIN GOALS

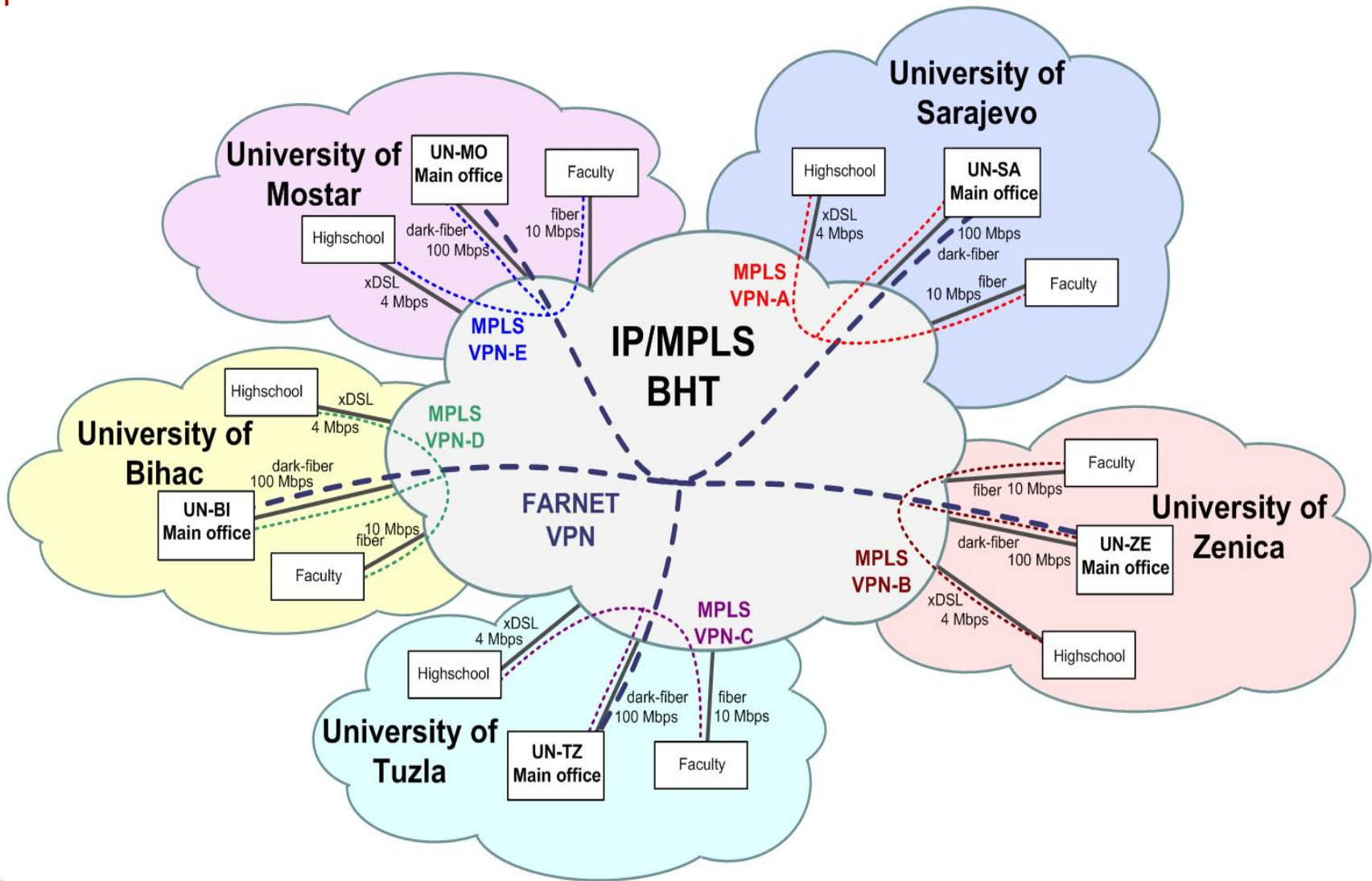
step 2 - **Interconnections**

- Interconnect with SARNET, CARNET-**100Mbps**
- Connect to GEANT
 - Budapest –RR - 155Mbps
 - Šabac – WDM - 1 Gbps
 - Split - fiber - 1 Gbps
- Connecting all Faculties and High-Schools

Network Interconnection



Federal Academic Research Network

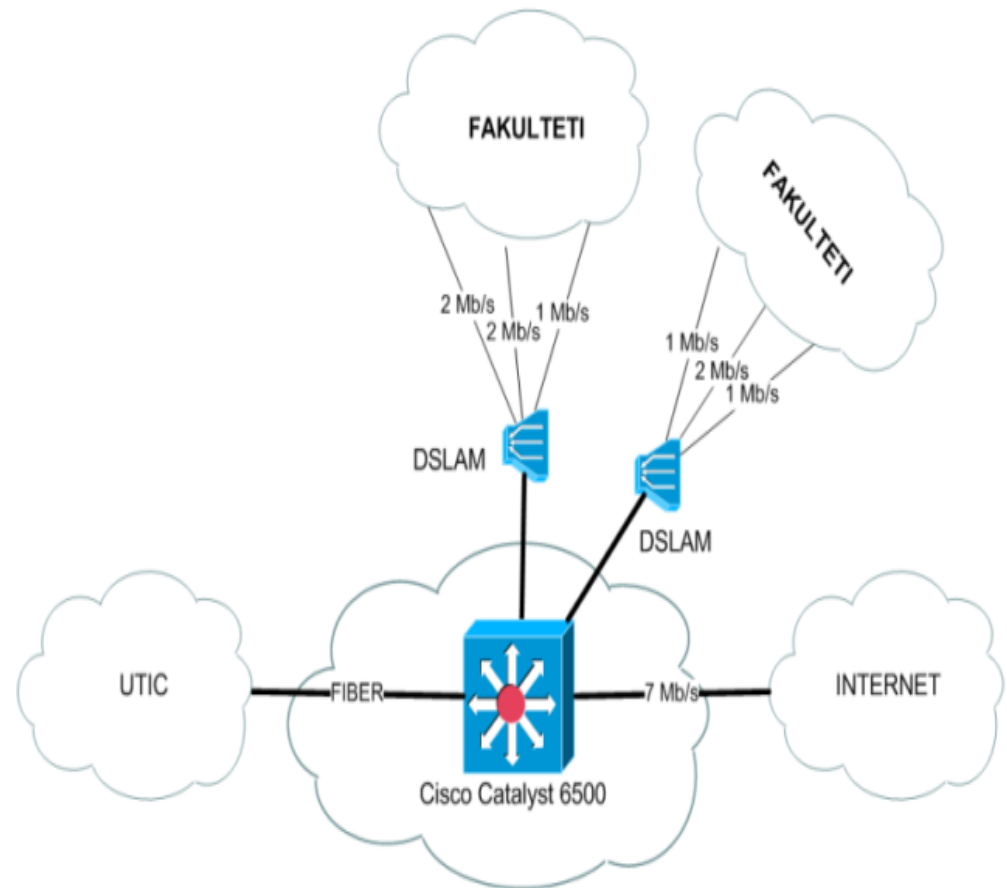


Federal Academic Research Network

UN-SA



- VPN,
- xDSL access
- 23 locations
- Sarajevo
- 2Mbps

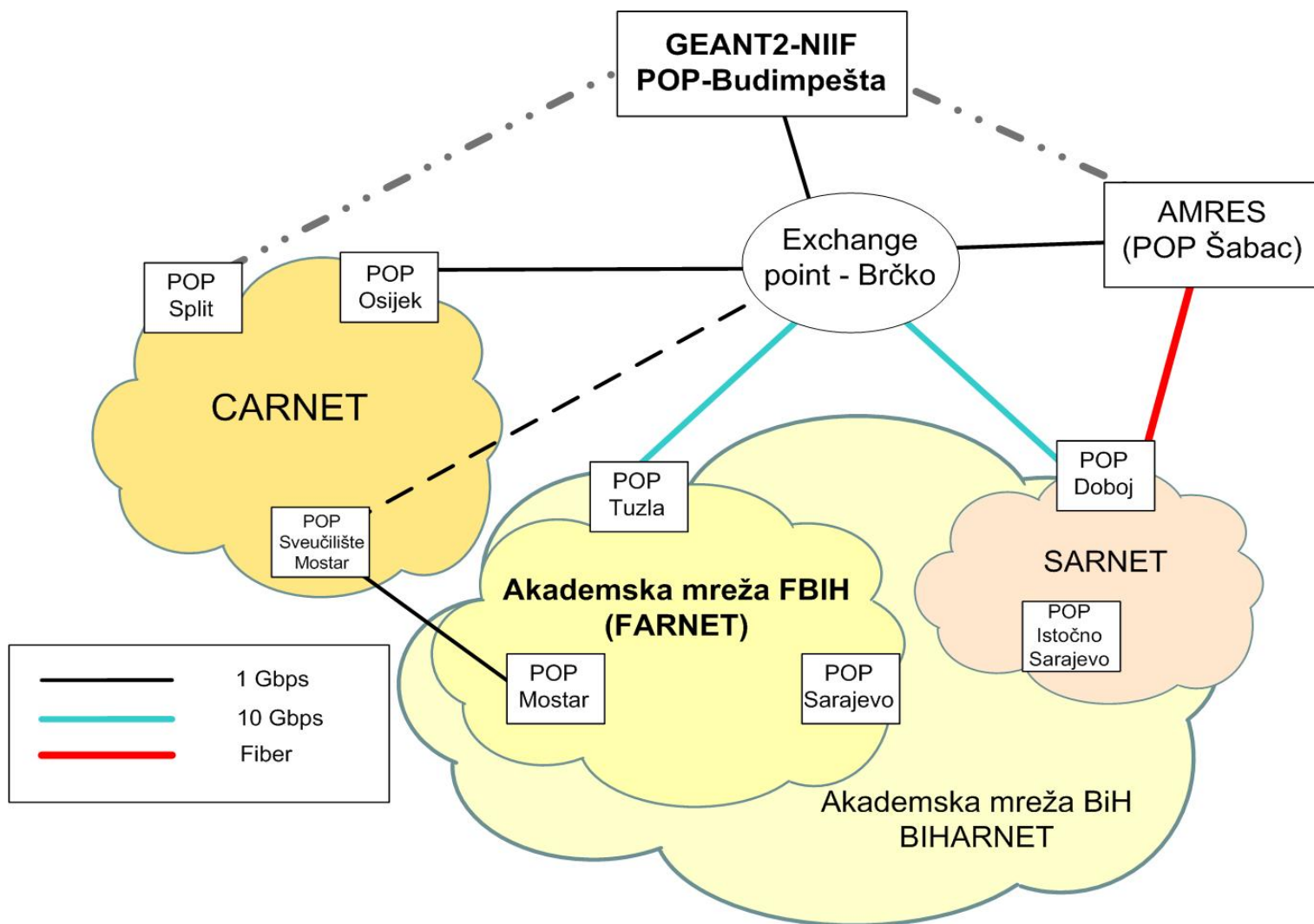


Positive experience

step 3 - **Gigabits**

- Gigabit link between Universities
- Exchange point - Brčko – provided by BHT
- Dark fiber to Osijek and Budapest
- Gigabit link to GEANT

Network Interconnection



- Government of Federation BiH
 - Ministry of science and education
 - Ministry of transport and communication
- Universities in Federation BiH
 - BH Telecom Sarajevo, HT Mostar
 - Elektroprivreda BiH,
 - High, Comprehensive and Elementary school,
 - BiHarnet, Sarnet, Carnet.

Conclusion



- FARNET as part of BIHARNET
- Highly resilient network
- Optimal and Scalable solution
- Phase realization
- Grow with the needs
- Lower CAPEX/OPEX

