

KIFÜ, The Hungarian Mandated Organisation and its Open Science Activities

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NIIF Program since 1986

Member of NREN community since 1992

NIIFI + KIFU merger 2016

NETWORK technologies

MPLS (2002), IPv6(2003), Segment routing (2013), 100 Gbps (2012)

Hybrid network (IP/MPLS +DWDM) – up to nx100 Gbps access

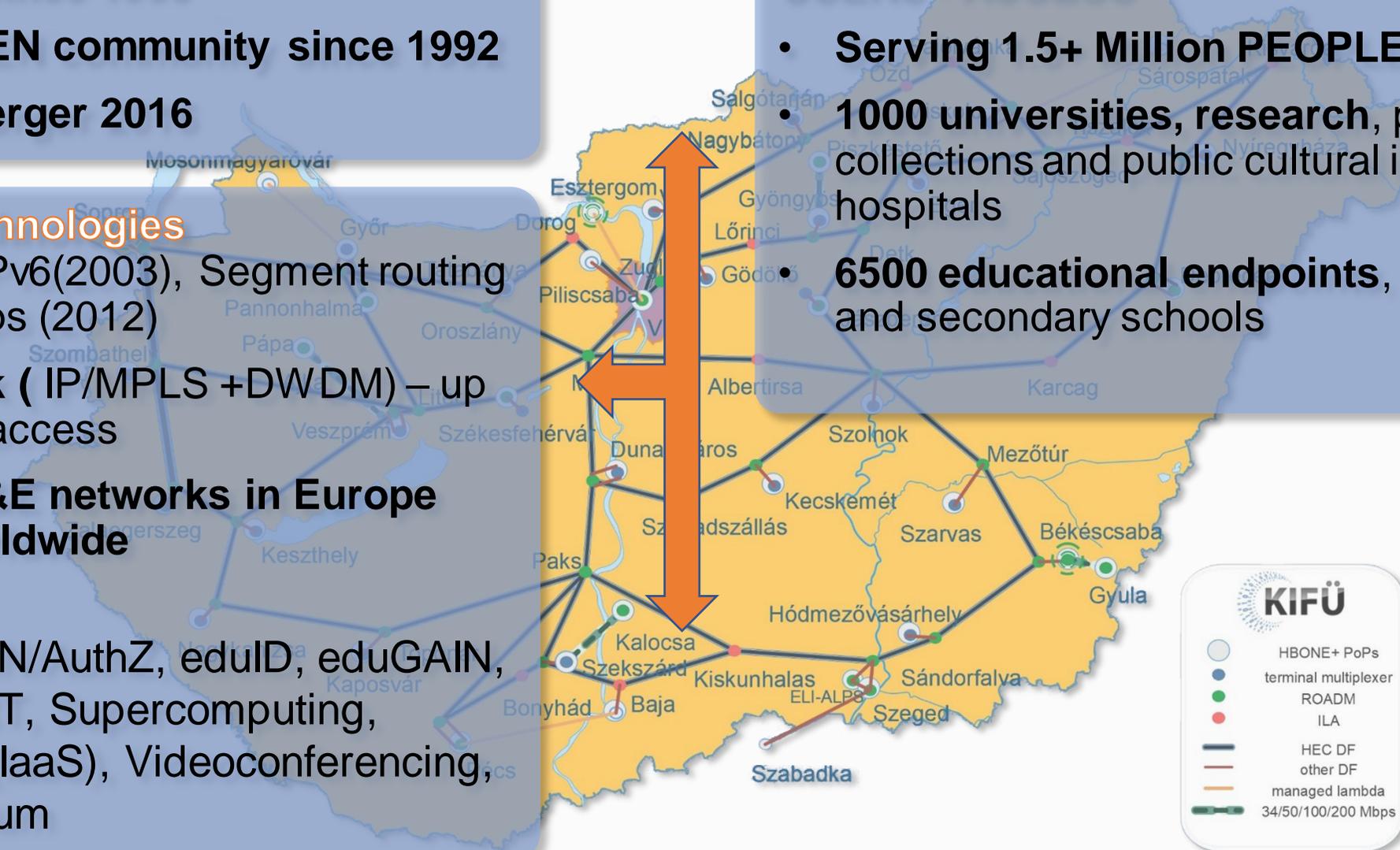
Reaching 44 R&E networks in Europe and 60+ in Worldwide

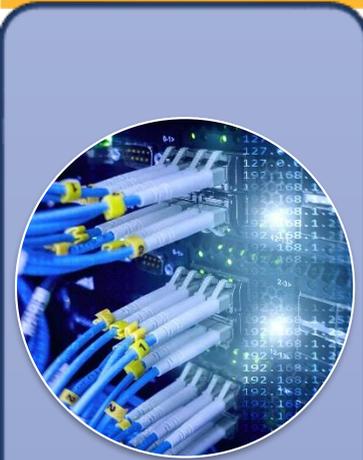
Services

Federated AuthN/AuthZ, eduID, eduGAIN, eduroam, CSIRT, Supercomputing, storage, cloud (IaaS), Videoconferencing, VoIP, Videatorium

USERS - ACCESS

- Serving 1.5+ Million PEOPLE
- 1000 universities, research, public collections and public cultural institutions, hospitals
- 6500 educational endpoints, all Primary and secondary schools





Network Services

Data network and Internet
(connectivity, VPN, multicast, IP, DNS)
Network security and filtering
Domain name eduID
eduroam
Managed IdP
TCS
PublicIP



Cloud services

Server hosting
Virtualisation
Webhosting
Mail
VoIP
Videoconferencing
Videostreaming
Vidorepository
Groupware, Collaboration



Super-computing

HPC capacity
Competence Centre
Scientific applications



Schoolnet Programme

Internet
Managed WiFi
eduID
eduroam, webhosting,
Mail



Tisztaszoftver (Clean Software) Programme

O365/M365 licenses



Consulting and expert service

System development, IT architecture design,
Training, Web accessibility
Field system engineering
Quality assurance



Specific services

OSZK
JMCS
DJP
FIR
KÁBER
HUNOR
Hulladék Radar (Waste Radar)

USER SUPPORT

- The system name: **Komondor**
- A new, ~5.5 PFlops machine (aggregated capacity)
- 4 partitions (CPU only, GPU accelerated, AI, high-mem)
- 20,000+ CPU cores
- 200+ GPU boards
- Free-air cooling all year round
- Manufacturer: HPE Cray
- To be launched for all researchers in April 2023
- Location: KIFU's Debrecen HPC datacenter – upgraded
- Waste heat used to heat swimming pool





Ensure wider national position is represented

- Interaction with all relevant stakeholders
- Coordinating input to and from their respective countries or constituencies – NOSCI forums, [e-mail lists](#), blogs, <https://kifu.gov.hu/ni4os>, contributing to <https://openscience.hu>

Serve as the bridge between national stakeholders and EOSC-A

- Complementing/expanding the role of individual EOSC A members
- National research area and national EOSC ecosystem - In some countries the Mandated Organisations already have a special role in the national EOSC implementation – KIFÜ as an e-infrastructure provider

Serve as the stable backbone of EOSC-A

- Coming from the governmental appointment
- Complementing independent decision of individual institutions becoming members

Call for active engagement

- Regular interaction/meetings with EOSC A Board and Secretariat
- Help to grow the membership and engagement in EOSC at national level
- Promote and assist with completion of monitoring surveys e.g. AAP



- Regional EOSC event in September 2022 with DEENK – with support of Ni4OS-Europe
 - EOSC in the Eastern European region, EOSC projects, NI4OS-Europe thematic services, Policy implementation, ORDM tools
- EOSC Symposium November 2022 - TF discussions
- Champion program to Support Researchers and academic staff to transfer of open science-related knowledge materials in their own institutions (2021)
- KIFÜ Open science workshops 34 workshops on 22 occasions in 8 locations in autumn 2022. With a total of more than 370 participants. Online, hybrid and in-person. Partners:



- E-learning in Hungarian: <https://elearning.kifu.hu/>
- Interviews with well known researchers about Open Science and RDM (2021)

Introduction to
Open Science

Open access

Research Data
Management

Modern Research
Assessment
Systems

EOSC

Scientific
Publications

Open Science
Café

KIFÜ Research
Support Services

Questions?

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