

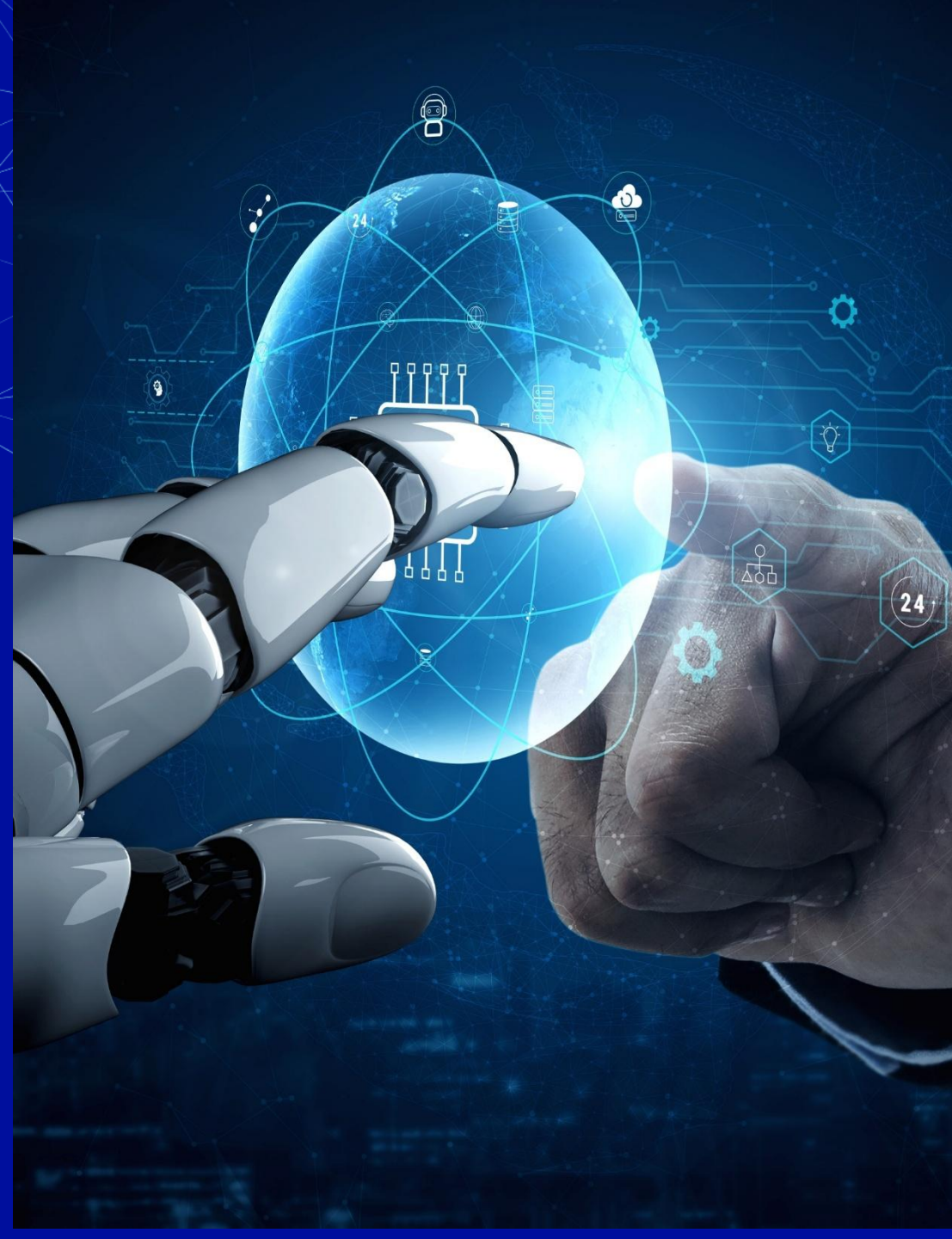
HUN-REN
Hungarian Research Network

AI as Research Infrastructure across the HUN-REN Network

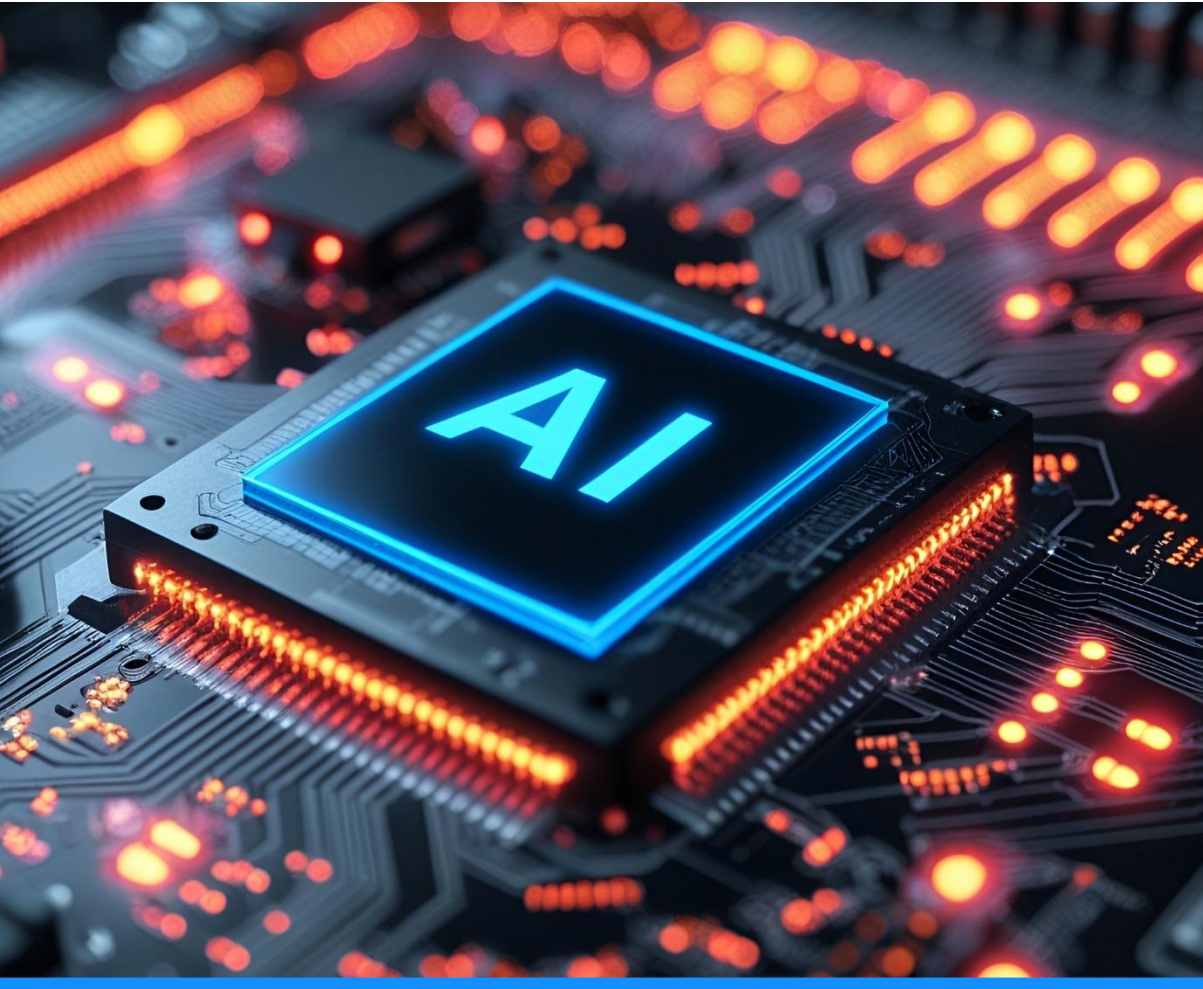
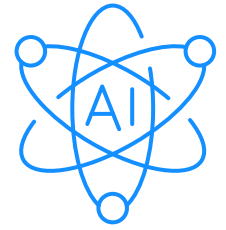
Roland JAKAB

CEO of HUN-REN Hungarian Research Network

2026.05.28.



AI AS THE NEW INFRASTRUCTURE OF RESEARCH



- 16th GPU Day is the meeting point of computing power and AI
- For HUN-REN, AI is not just a technology in itself, but a research infrastructure and capability
- In 2025–2026, the focus is: introducing AI at the network level
- Our goal: making AI accessible in researchers' everyday work

THE INSTITUTIONAL FOUNDATIONS OF AI HAVE BEEN ESTABLISHED

81

AI4Science

and

20+

AI4Efficiency
support projects

50+

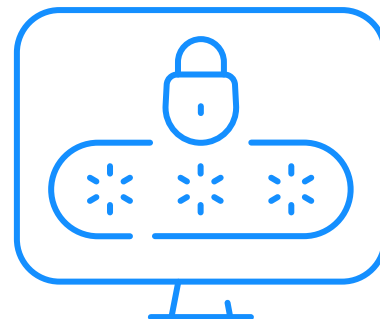
Launch & Learn
sessions

25

AI ambassadors across the
institutions of the network

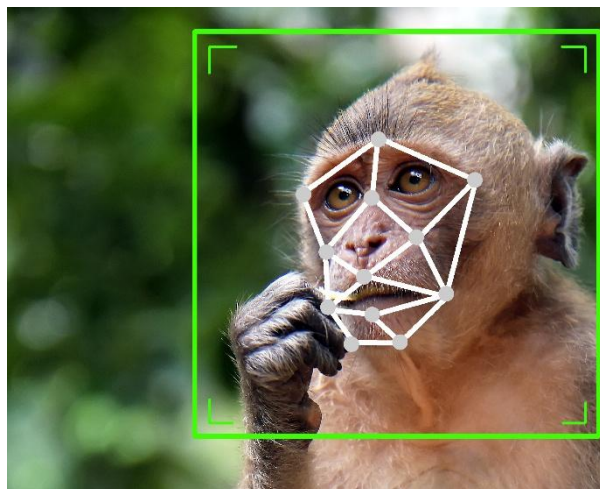
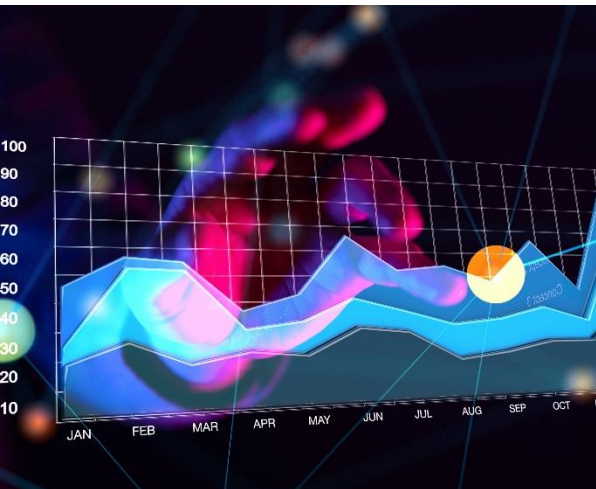
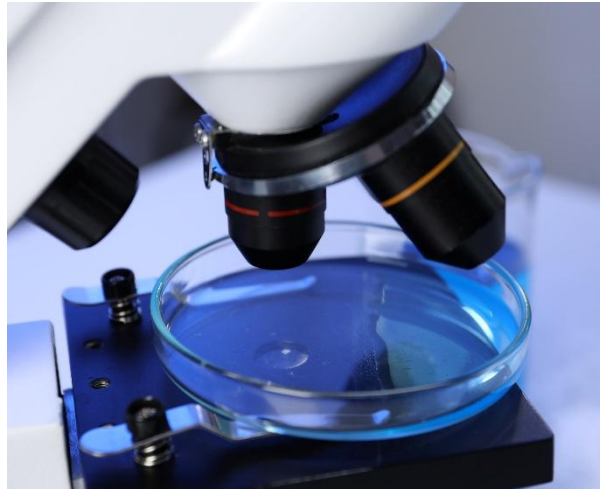
600-700+

Participants in structured
training programs



Secure and Shareable AI tools,
workflows, and services

THE RESULT: AI SUPPORT FOR REAL RESEARCH PROBLEMS



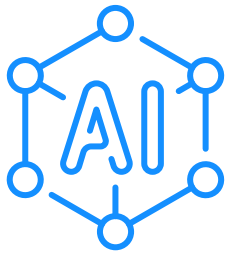
- The AI Service Center provides not general advice, but tangible research support
- **Supported areas:**
 - image processing, segmentation
 - object recognition
 - molecular modeling
 - spectrum evaluation
 - data processing and automation
- Working examples across several HUN-REN institutions, with rapid validation

ACCESSIBLE AI TOOLS

The common framework:
Agentic Discovery Platform (ADP)

- 1 Integrate international tool ecosystems
- 2 Developing own scientific agents
- 3 Reliable access to agentic capabilities

ADP can support the full span of the research workflow:



literature



data
exploration



hypothesis



analysis

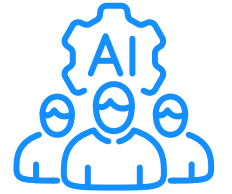


validation



publication
preparation

ACCESSIBLE AI CAPACITIES



The goal is not more isolated developments, but scalable access

Main directions:

- secure model access
- institutional and network-level AI services
- expansion of computing capacities
- AI support for larger research workflows

International connection:

AI Factory Antenna / Jülich / Levente

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THANK YOU

