

Adria Forum 2025



From Innovation to Implementation:

Private Cloud for Modernizing Research and Education

Powered by VMware Cloud Foundation

*AIGO x AMRES — real-world example of
VMware Cloud Foundation in action*



AIGO YOUR PARTNER IN DEVELOPMENT

AIGO is one of the leading system integrators in Serbia that recognizes the needs of the IT market and follows world trends in technological achievements.



100+
PROJECT



400+
CLIENTS

Innovation | Efficiency | Reliability | Support



WORKING HARD
Since 2007

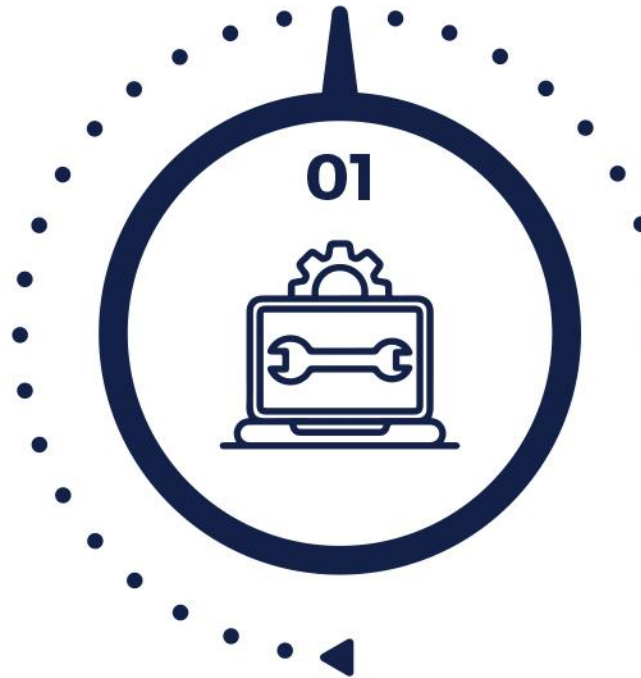
150+



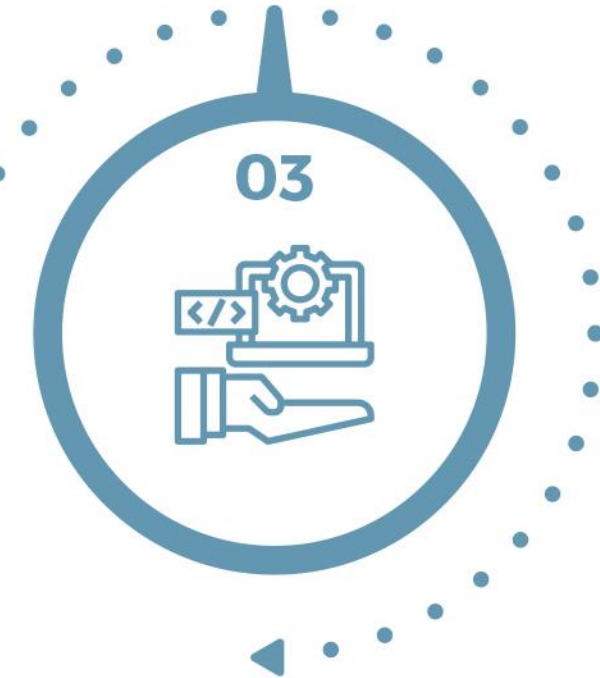
SMARTER SYSTEM, SMARTER BUSINESS.

AIGO INFRASTRUCTURE ARCHITECTURE

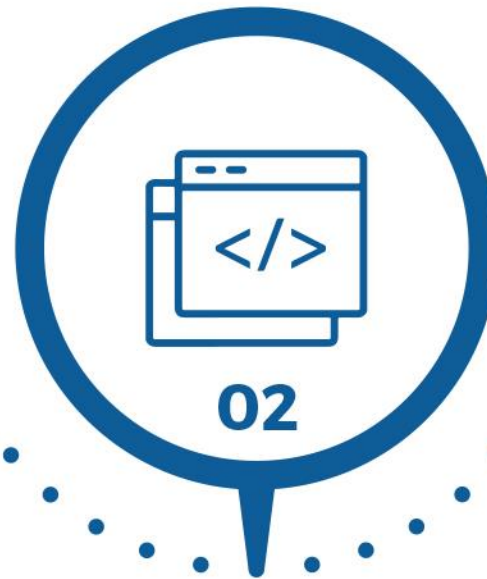
Hardware



Managed Services



Software





VENDOR STATUSES

DELL EMC TITANIUM
LENOVO PLATINUM
VMWARE PRINCIPAL
CERTIFIED ORACLE CORPORATE
AND PUBLIC ADDENDUM



EXPERIENCE

15+ years of experience
1000+ projects



CERTIFIED TEAM



DELL ECM	HUAWEI
VMWARE	LENOVO
CISCO	FORTINET
HPE	VEEAM

FLEXIBLE WORKING METHOD



Customized approach and services.
Creating optimal solutions and providing
continuous support.



A Partnership Built on Trust and Innovation

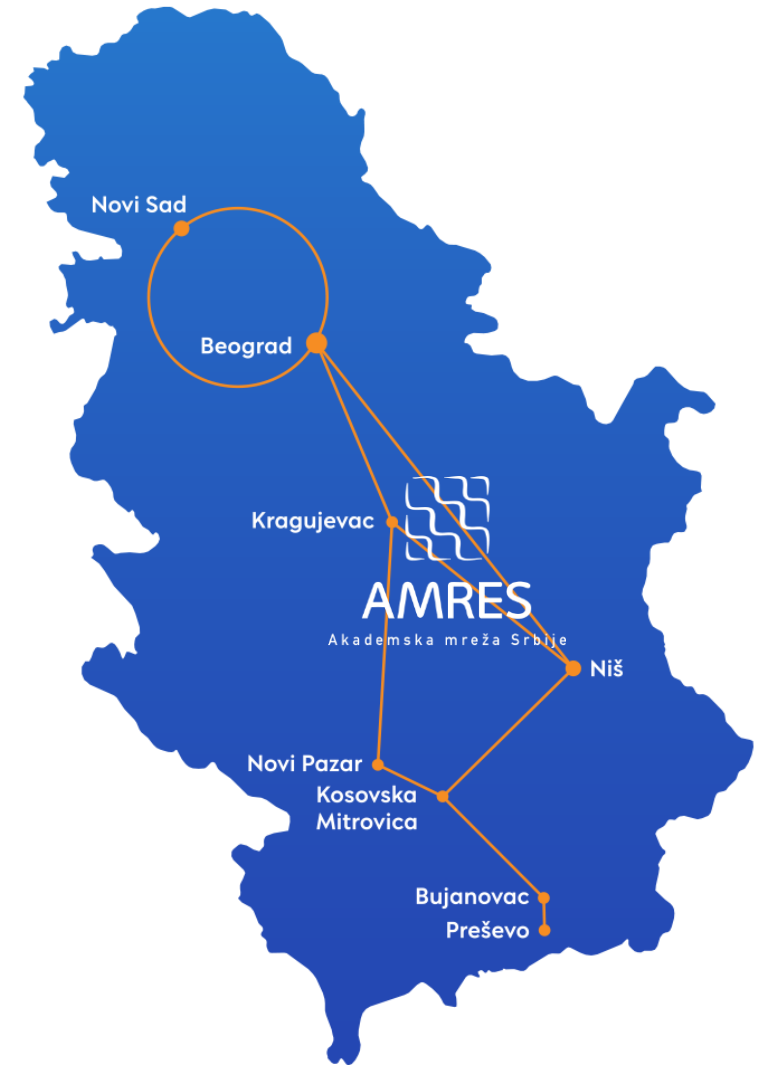
- **Shared values with our partners** are the foundation of our success
- Years of investment in technology partnerships have led to close collaboration with industry leaders
- **VMware** – a company with whom we share a vision of **digital transformation, reliability, and technological excellence.**
- Together, we empower users to leverage **cutting-edge cloud technologies**, backed by local support and a deep understanding of market-specific needs.

A Partnership Built on Trust and Innovation

- The modernization of Serbia's academic network – **AMRES** – is the pinnacle of this collaboration
- Through the implementation of **VMware Cloud Foundation 5.1**, we created a **private academic cloud** accessible to all universities and institutions across Serbia
- A project aligned with European initiatives like OCRE – and even surpassing them
- Unlike public cloud providers offering discounted services (OCRE), **AMRES delivers a local, sovereign cloud** based on state-of-the-art technologies, free of charge for users.

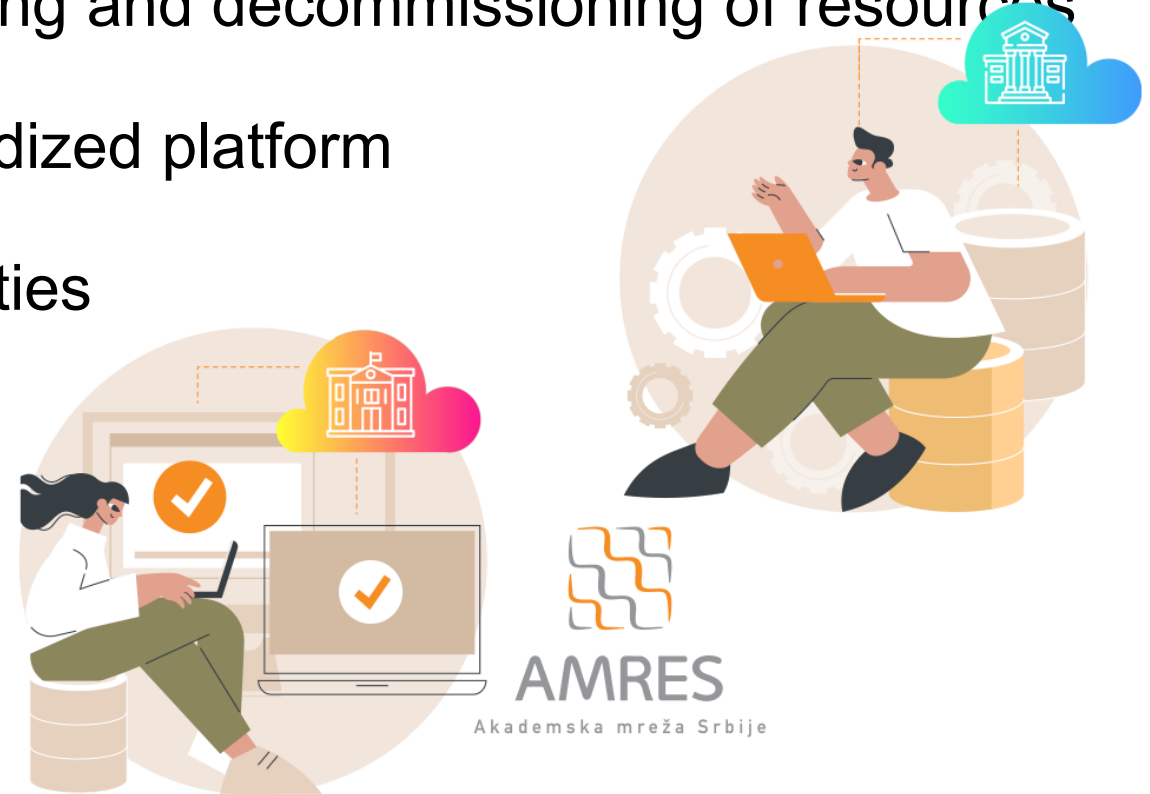
AMRES – backbone of Serbia's academic network

- A national digital and network infrastructure connecting all universities and research institutions
- Provides communication, security, and cloud services to the academic community
- **Mission:** To modernize research and education through ICT infrastructure
- **Key challenge:** How to provide **scalable, secure, and easily accessible ICT resources** for diverse faculties and research projects?



The Challenge | Fragmented infrastructure and the need for centralization

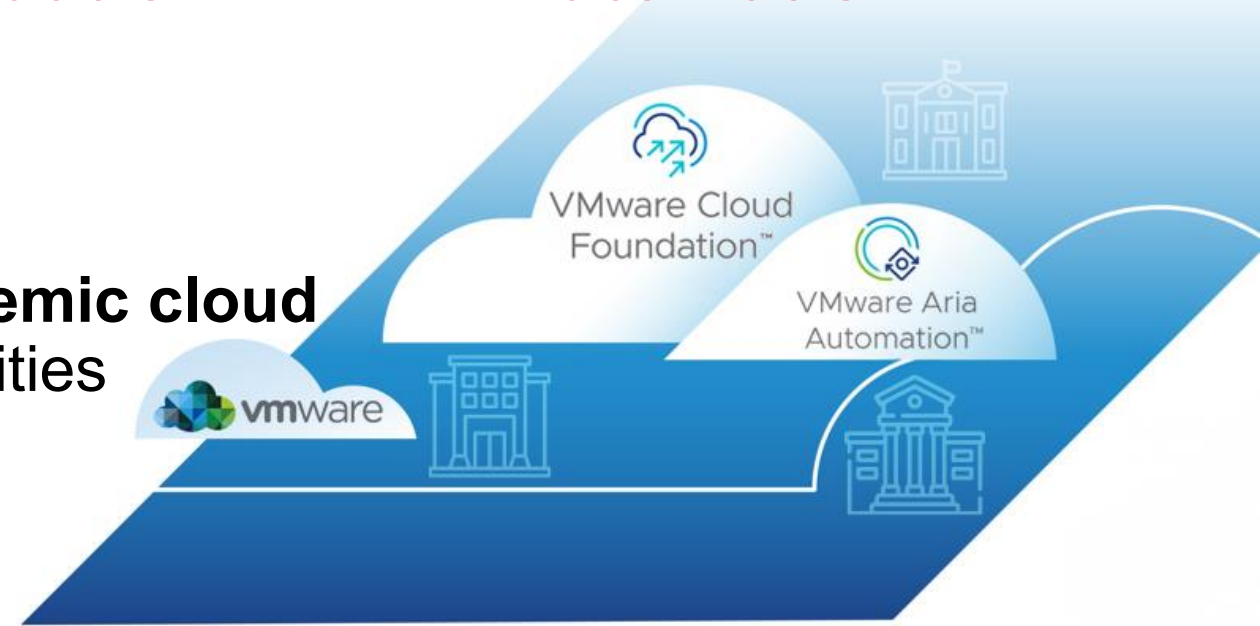
- Faculties operate with diverse and inconsistent resources
- Short-term projects require rapid provisioning and decommissioning of resources
- Demand for a shared, secure, and standardized platform
- Limited number of IT professionals at faculties
→ need for automation
- Varying levels of expertise and fields of study (humanities, engineering, medicine)



The Solution | VMware Cloud Foundation + ARIA Automation

Full-stack private cloud built on VMware Cloud Foundation

AMRES aimed to create a private academic cloud
an environment offering the same capabilities
as commercial providers, available to all
members of the academic network..



- Complete VCF platform implemented – compute, storage, network, and security
- All VCF modules and functionalities activated

ARIA Automation – The Key to Managing the Entire Solution

ARIA Automation component map::

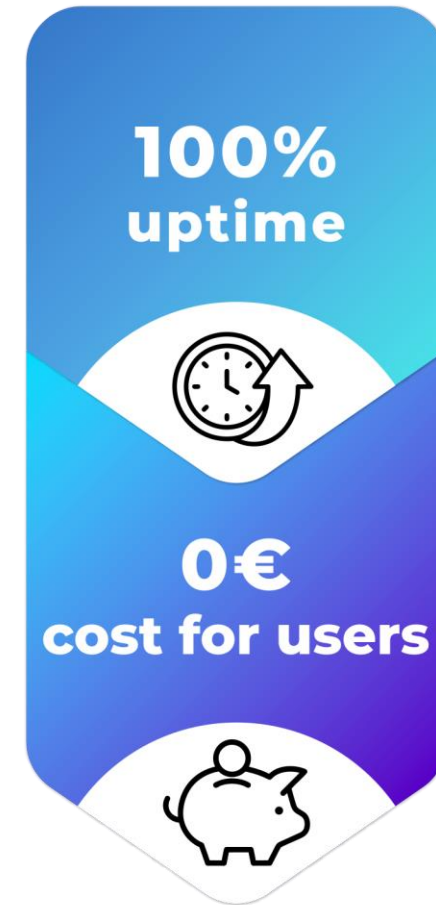
- Self-service resource provisioning and management
- Predefined templates (various categories of virtual servers)
- Automated project, tenant, and access management
- High availability
- Collaborative use of shared platforms by multiple faculties



ARIA Operations – performance monitoring, resource tracking, and reporting

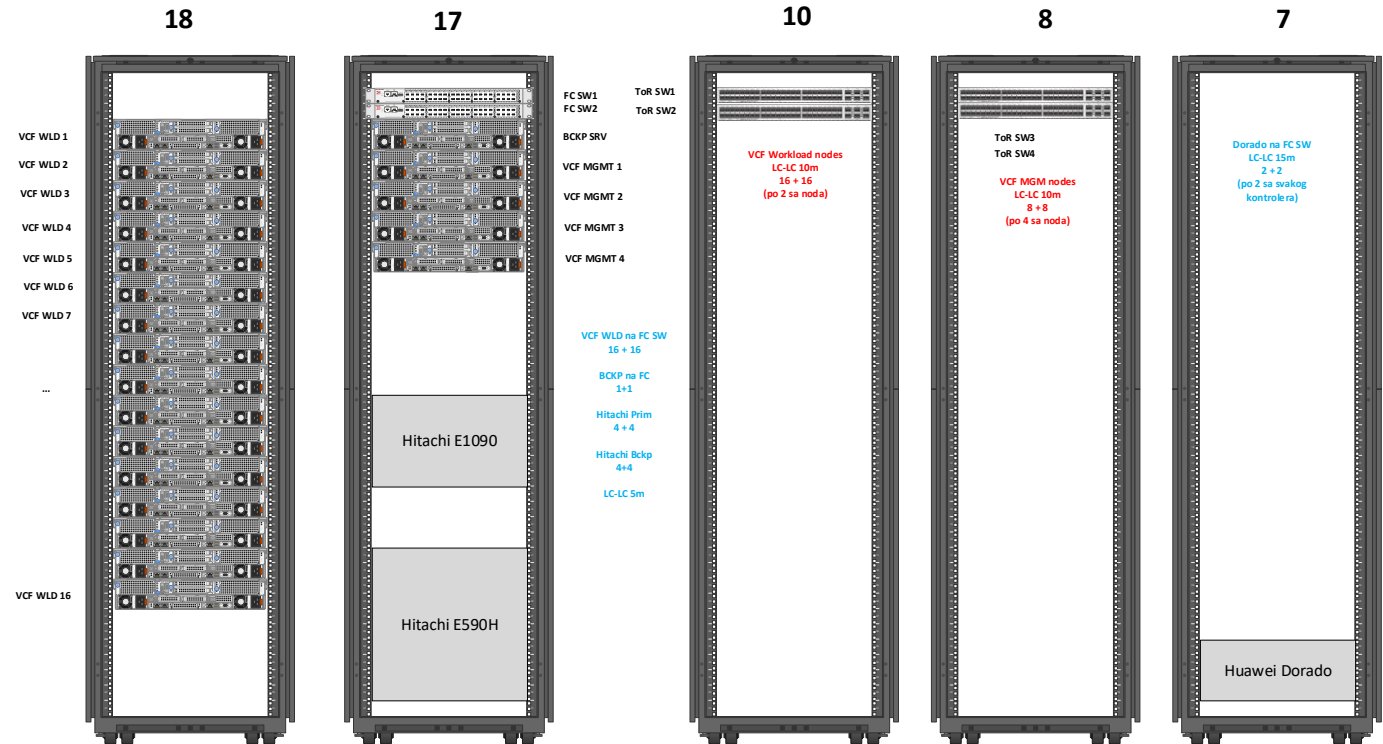
Results & Value| Unified, Automated, High-Performance Cloud

- Production capacity: ~1,000 virtual machines
- Free resource access for faculties
- Unified, secure, and highly available environment
- Standardized access parameters and identity federation
- Optimized infrastructure and maximum resource utilization
- New flexibility: rapid project deployment and decommissioning as needed



Current State – Infrastructure in Full Production

- 4 vSAN Ready Nodes for the management domain
- 16 servers + 240TB RAW flash high-performance workload storage
- All servers deployed via Cloud Builder
- Full functionality of all VCF modules
- Backup server and 784TB RAW high-performance backup storage.



Next step | Building on a strong foundation

- Upgrade to the latest version of VCF
- Introduction of **VCF AI Stack** – shared AI resources
- Enhanced network orchestration and security layers
- A model for future regional academic cloud initiatives

**“With VMware Cloud Foundation,
AIGO helped AMRES build a scalable
and secure academic cloud - a real example
of innovation turned into implementation.”**





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Thank You