

KENET Research Engagement & AI Infrastructure Initiatives

TNC25

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Key Activities

- Community-financed Research Engagement Activities
- Community-financed Research Computing Infrastructure
- National Policy and Strategy Formulation
- Industry partnerships
- Attracting / mobilizing research resources
- Catalyzing innovations based on frontier technologies (includes AI)

Research engagement @ KENET

- **Travel grants** for graduate students, lecturers, researchers for indexed conferences (Scopus or Web of Science)
 - Up to 30 travel grants @ ~ EUR2,000
- Early career (<6 years) PhD faculty/researchers **research and innovation grants**
 - Up to 15 grants per years
- **Grants supported by KENET research grant (2% of Internet connectivity revenue)**
- **Special Interest Groups (SIGs)** coordinated by part time research associates senior faculty)
- In 2024, KENET awarded two grants on application of **Generative AI in teaching computer science courses**

Research Engagement



Microsoft / KENET CS/Engineering faculty workshop on AI in Education



Partnership in AI Innovation Hub - KENET / NVIDIA

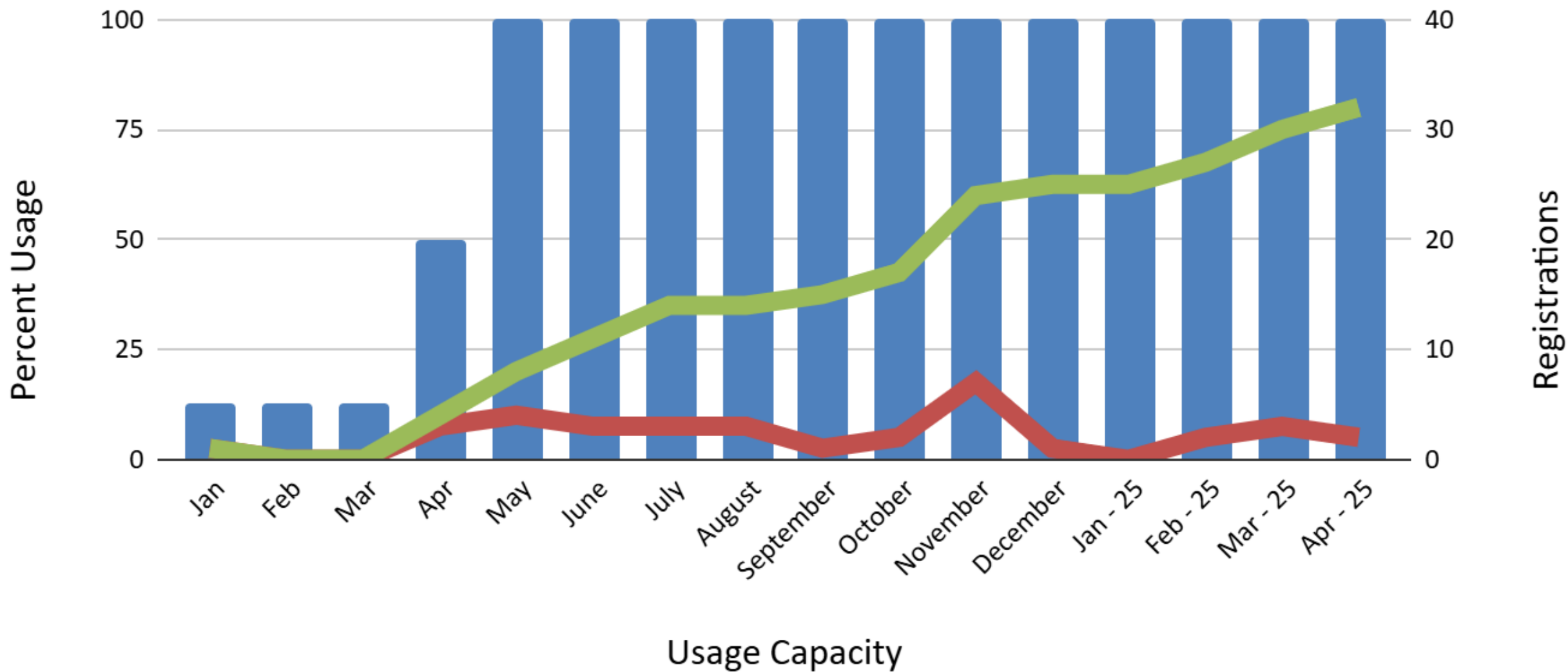


KENET Research Computing Infrastructure – GPU Cluster

- **The KENET GPU Cluster**
 - KENET has setup a GPU Cluster of servers to assist researchers from member institutions accelerate their complex computational tasks
 - High demand by researchers running machine learning algorithms, data analytics, scientific research in Kenya.
- **Tools/Applications Available**
 - Virtual Appliances
 - Quantum Espresso, YAMBO, SIESTA, GROMACS, Tensorflow, PyTorch
 - Slurm Workload Manager
 - PyTorch, Tensorflow
- **Cluster Upgrade in August 2025**

GPU Utilization, Registrations and Cumulative Registrations

■ Percent Occupied ■ Registrations ■ Cumulative Registrations



Thank You

www.kenet.or.ke

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