



for Research and Education Networking

Connectivity Services

RREN Connectivity Service

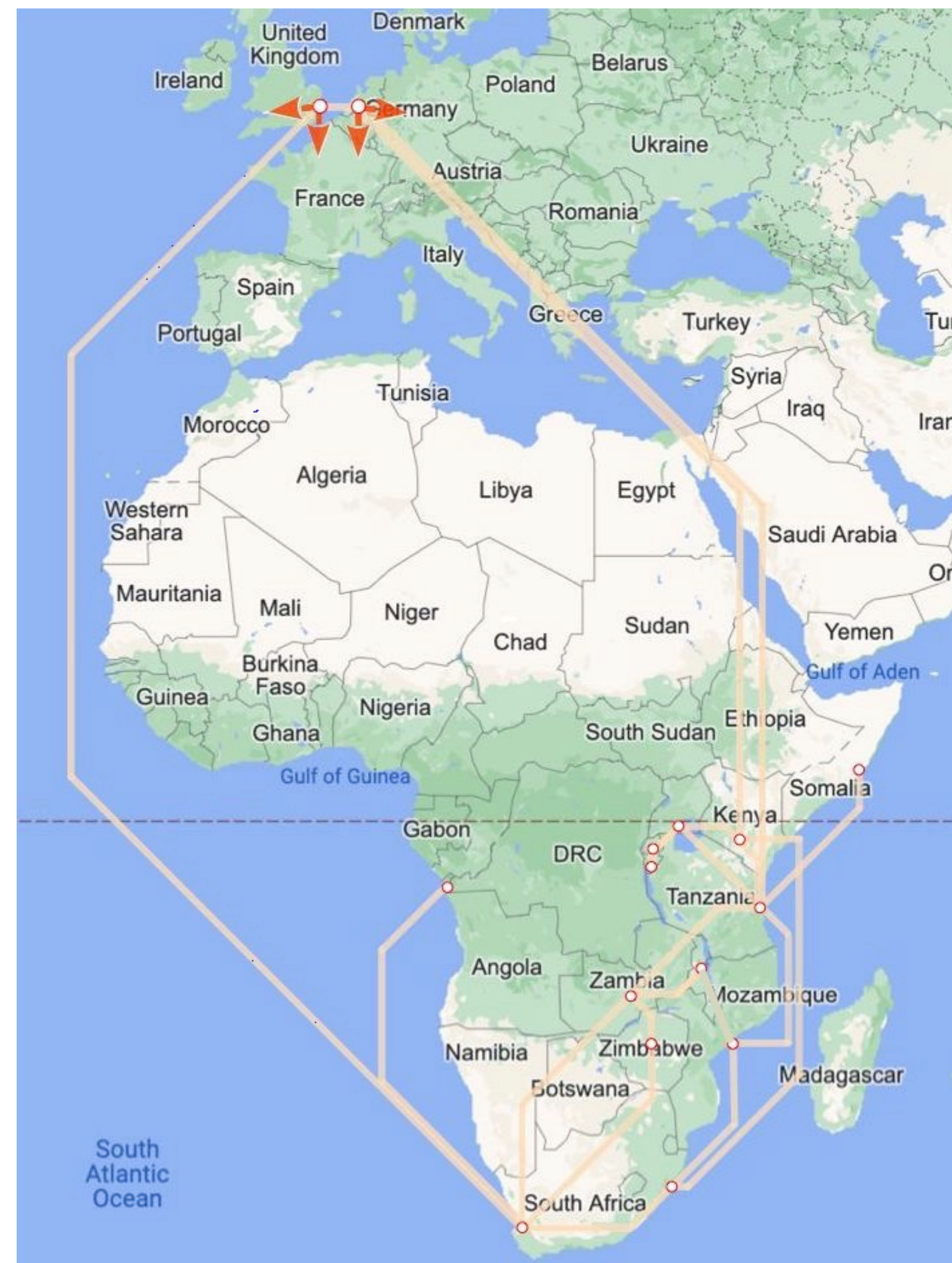
- Access to shared **R**esearch & **E**ducation network
 - Connected NRENs
- +Transit to/fro networks in Africa

Global Transit Delivered in Africa (GTDiA)

- Global Access
 - Other NRENs
 - Internet
- Via a UA local POP

Global Transit Delivered in Europe (GTDiE)

- Global REN/Internet Access
- Via Amsterdam & London



Trust & Identity Services

Managed IdP

- Hosted IMS (Managed & On-Premise)

eduroam

- eduroam Switchboard
- Regional Proxy Services
 - UA (6)
 - WACREN (4)
- Support (technical) - FLRS
 - MAREN
 - EthERNet
 - SomaliREN
 -



Trust & Identity Services

Identity Federation

- African Catch-all Federation
 - UA, WACREN & ASREN
 - Template
 - eduGAIN candidate
- New Federations (Support)
 - RaFiKi
 - eduGAIN candidate
 - SIF
 - EIF



Cloud & Storage Services

Infrastructure as a Service

- Compute, Network & Storage on-demand
 - RREN & Public

Remote Labs

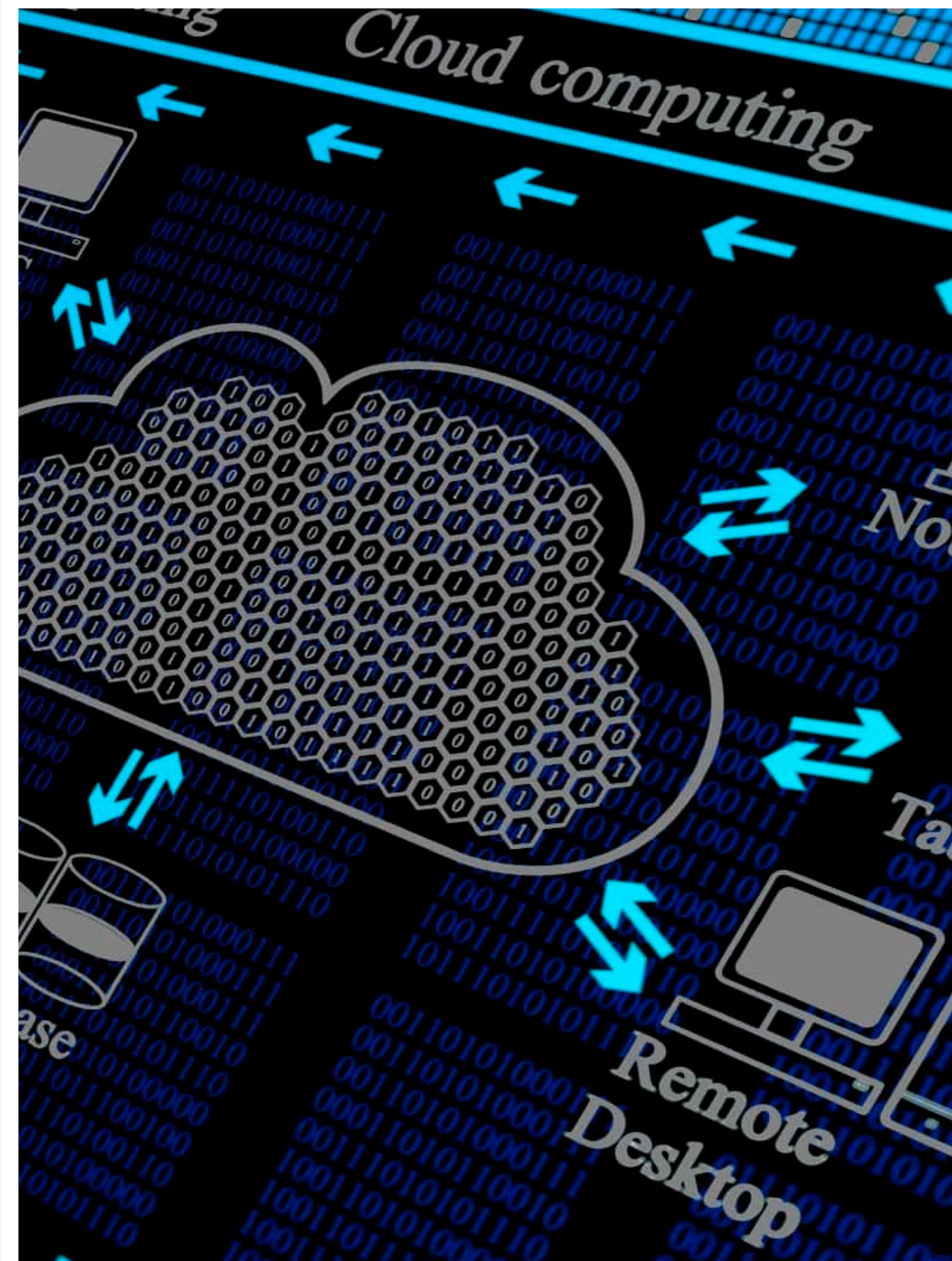
- IaaS for remote/simulation Labs

File Transfers

- Large/Heavy File Transfers

Hosting

- Services for selected institutions
- Drive services
- Keep content local
- ...



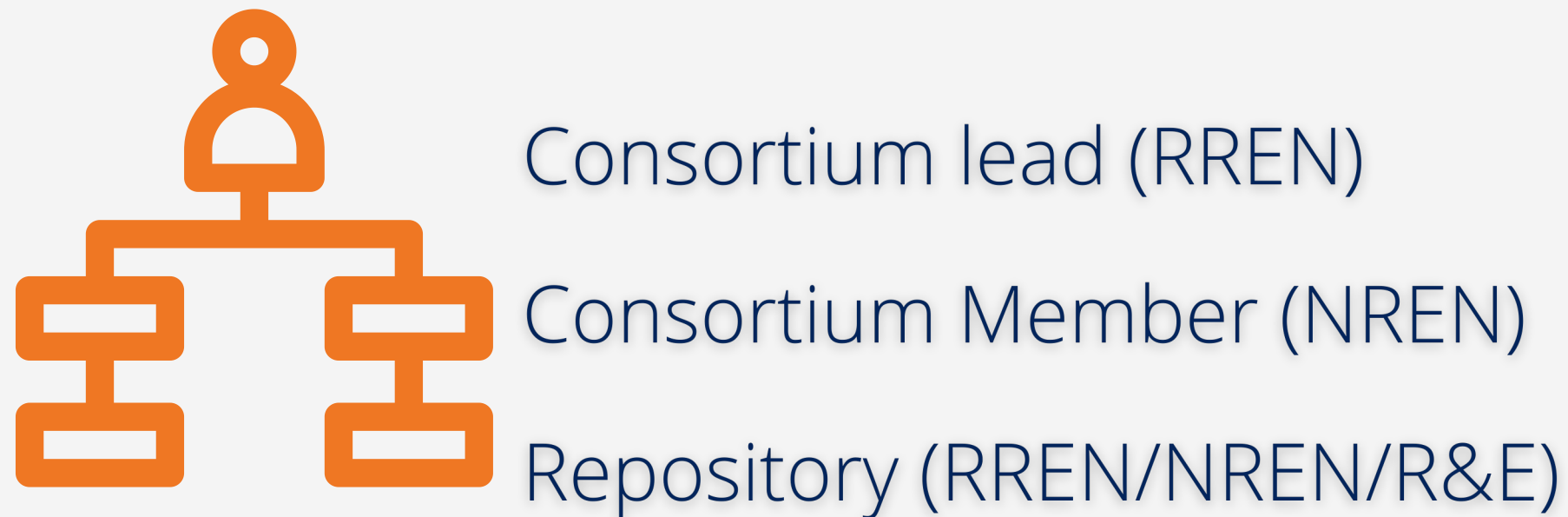
Digital Object Identifiers

Open Access/Science & FAIR

- Research & dissemination for ALL
- Findable, Accessible, Interoperable & Reusable
 - Documents, tools, material,
- Persistence

UbuntuNet Alliance Consortium

- DataCite consortium member - June 2021
- Over 20K DOIs registered



Digital SSL Certificates

Partnership with Sectigo in 2022

- A move from el4Africa
- Provide low cost OV SSL Certificates
 - 4 NRENs subscribed

Premium Support

- < 1 hour response time
- 3 designated support contacts

Provision Model

- NREN
- UA: Catch-All



Utafiti Africa

Up-to-date & Online database of funding opportunities

- African Researchers
- Intuitive Search Features

Research grants

Equipment /
Infrastructure

Fellowships

Travel

Visit: <https://research.ubuntunet.net/>



Cybersecurity

- Security Incidents on the rise
 - R&E - no exception
- Required
 - Monitoring & Engagement (Internal/External)
 - CSIRTS - 4 within UA Community
 - Framework
 - Existing - Provide expertise
 - New - Use the framework
- Platforms
 - Shared/Share intelligence information
- Capacity Building
 - Coordination - A workshop in October



Collaboration & Learning

Learning

- Infrastructure for Learning
 - Learning Tools

Video/Web Conference

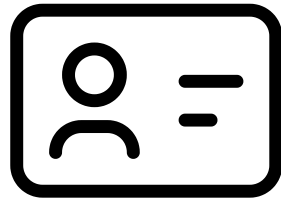
- Infrastructure for Open Source tools
 - BBB
 - eduMeet
- Zoom?

New Frameworks | Partnerships

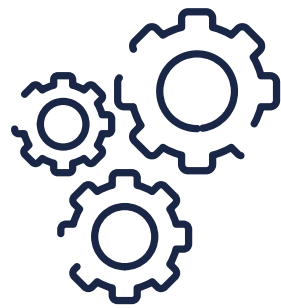
- Cloud Services (AWS, Google & Microsoft)
- Aggregated volume discounts
- Digital Library Services?



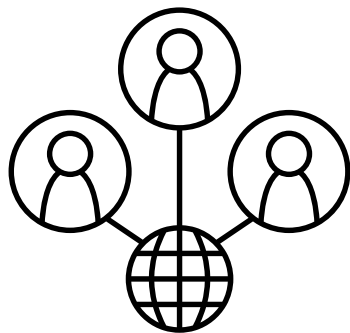
Capacity Building



**Trust
&
Identity Services**



DevOps | Cloud



**Network
Engineering**



Cybersecurity



THANK YOU



Malawi (secretariate)



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