

Sikt – Norwegian Agency for Shared Services in Education and Research

CNaaS at Sikt

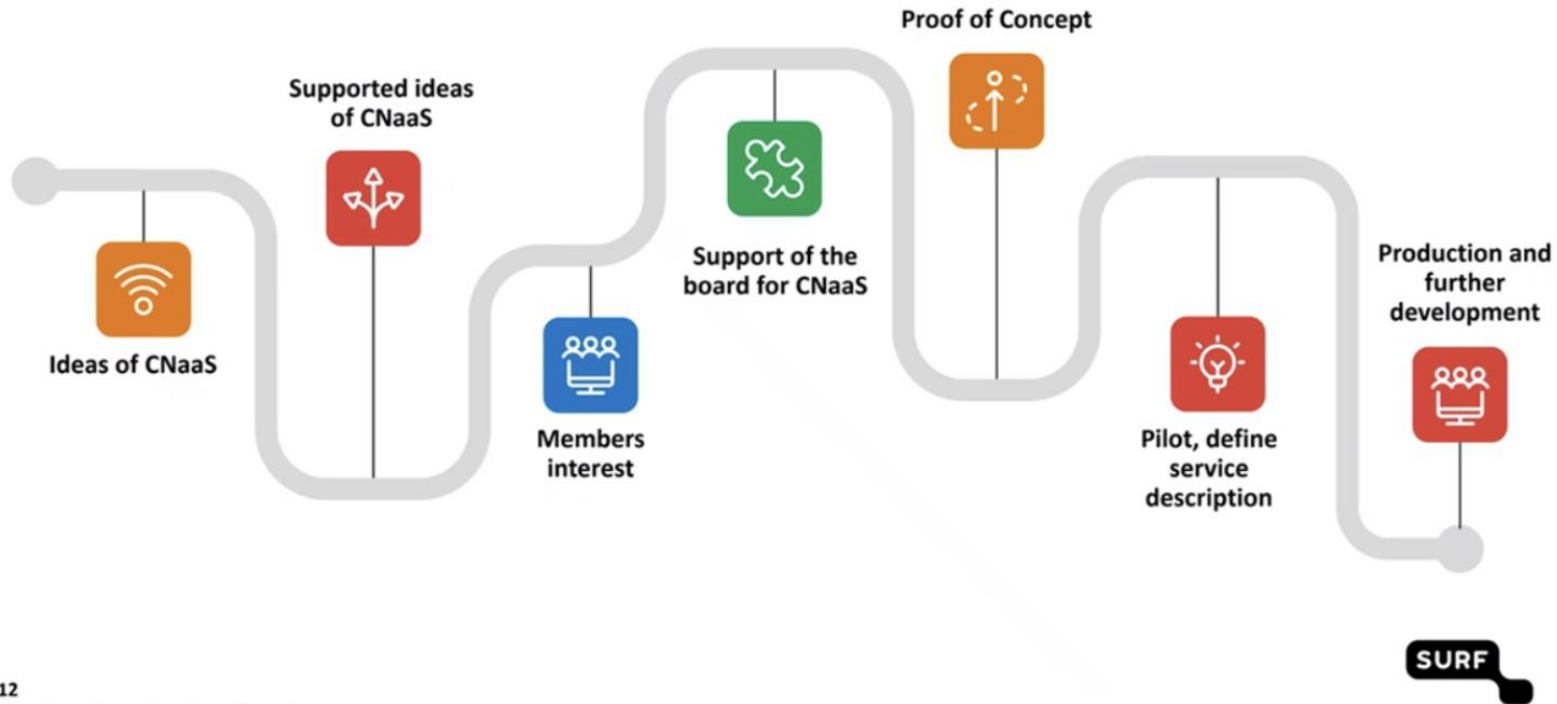
Brief statusreport

Vidar Stokke - Sikt

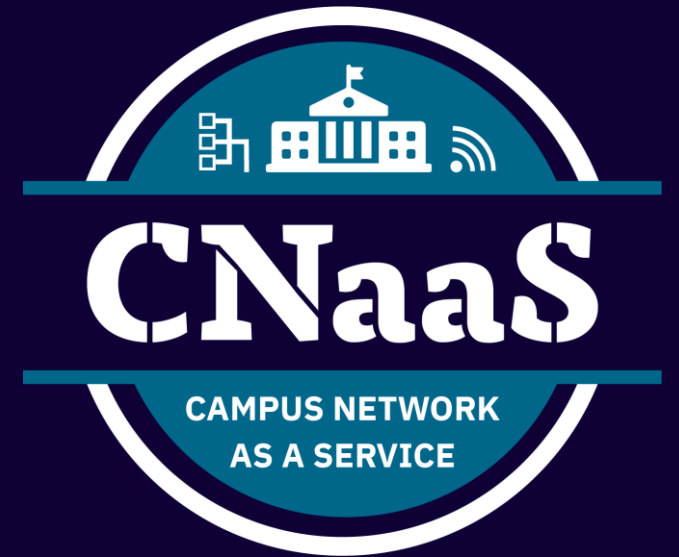
January 2026 at SIG CNaaS workshop 1



| Where are you?

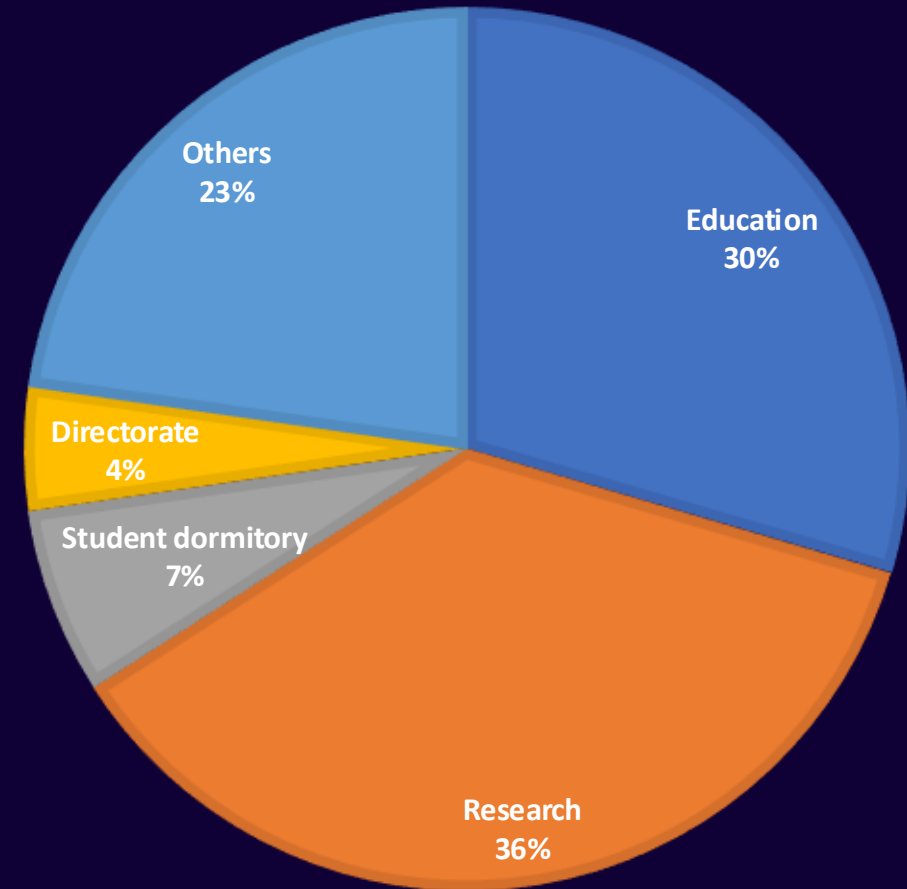


12



Brief history of CNaaS at Sikt

- 6 years of operation
- 2020-2025: Hunting for customers
- Currently:
 - 42 customers
 - 8 (+2) engineers and 6 developers
- Vendor agnostic architecture
- Business model - leasing (as a service)
- Pick and choose menu:
 - Wifi
 - Fixed network (switches)
 - Firewalls / routers
 - DHCP
 - eduVPN
 - Data center network



Current hardware components used

- Juniper routers, firewalls, switches and wireless access points.
- HPE Aruba access points and wireless controllers.
- HPE Aruba UXI sensors.
- (PaloAlto 440 for GlobalProtect VPN)
- OpenGear ACM7000 Resilience Gateway for OOB
- Super Micro – SuperServer with Proxmox for OnPrem network near services (i.e. eduVPN)

Tools

- Python scripts for config of Juniper switches, firewalls and routers
 - Jinja and YAML
 - Self developed
- **NAV - Network Administration Visualized**
 - **monitor network**
 - **configure switchports**
 - **open source, developed at Sikt**
- **Argus – an alarm aggregator systems**
 - **open source, developed by Sikt, funded by GÉANT**
- Hamina for wireless planning and survey
- **Juniper Mist – for Juniper wireless configuration and monitoring.**
- Juniper Security Director – for configuration of security devices.

Looking back... lessons learned.

- Brown field deployments are demanding
 - Inherited the design
 - Upgraded hardware
- Customers want us to help them with “everything”
- Some customers with special requirements making us deviate from “reference design”.

Status as of today

Product strategy

- No more hunting for customers
- Will explore new cooperation models for universities and university colleges
 - We deliver to a lower cost
 - Equipment, tools, design and knowledge.
 - They do more themselves
 - Implement and maintain
- Multi-vendor for real
- Get rid of “special solutions”
- geteduroam in production – H1-2026(?)
- Radius as a Service offering?
- **Restructure our NOC together with Sikt’s core national network team**
- **Look into iotroam together with SURF and the Norwegian Community**



Capacity, Redundancy, Security

