OpenNaaS

Mantychore

An **open source** system for deploying **Networks as a Service**
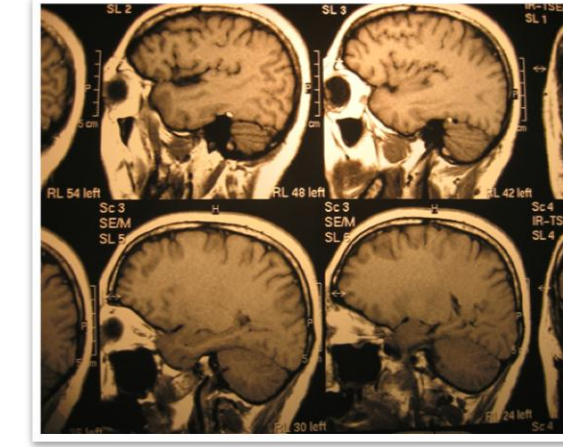

OpenNaaS Architecture
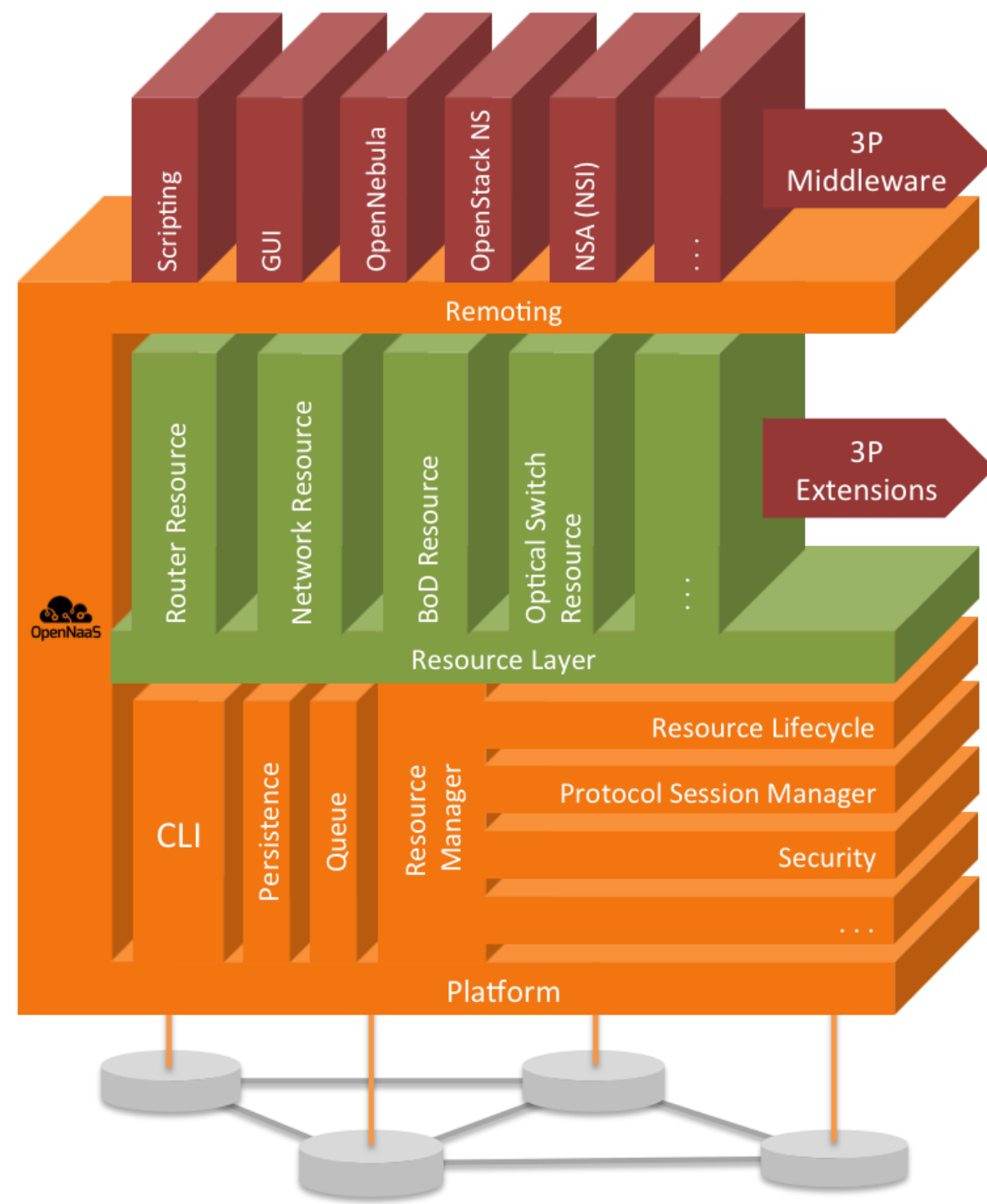
Use cases

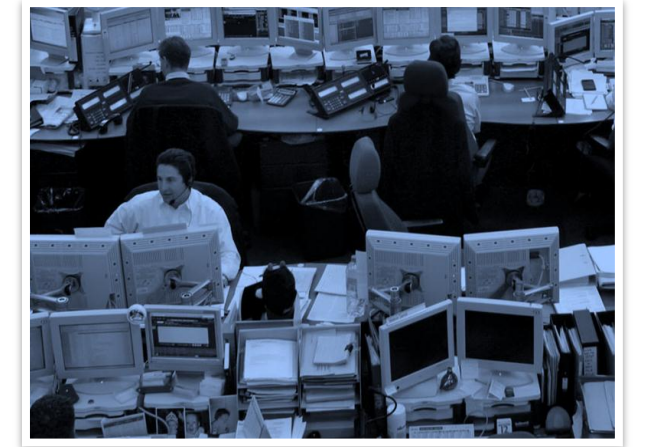**Virtual customer premises equipment**

Streaming ultra-high definition multimedia and 3D

Health networking

Zero carbon-emission virtual infrastructures

Marketplace for infrastructure resources

Mantychore development is driven by the needs of real **network users** from universities and network providers.

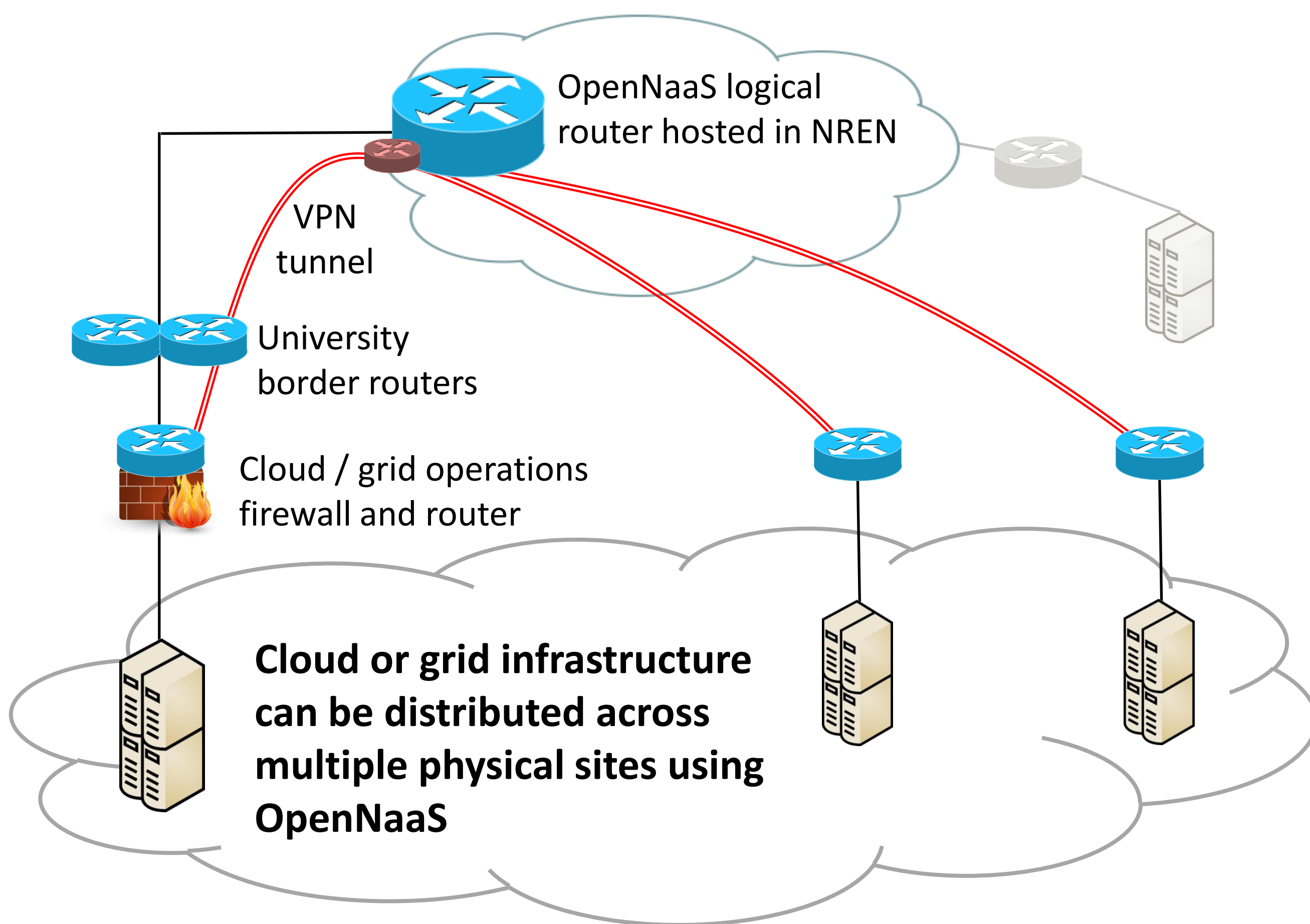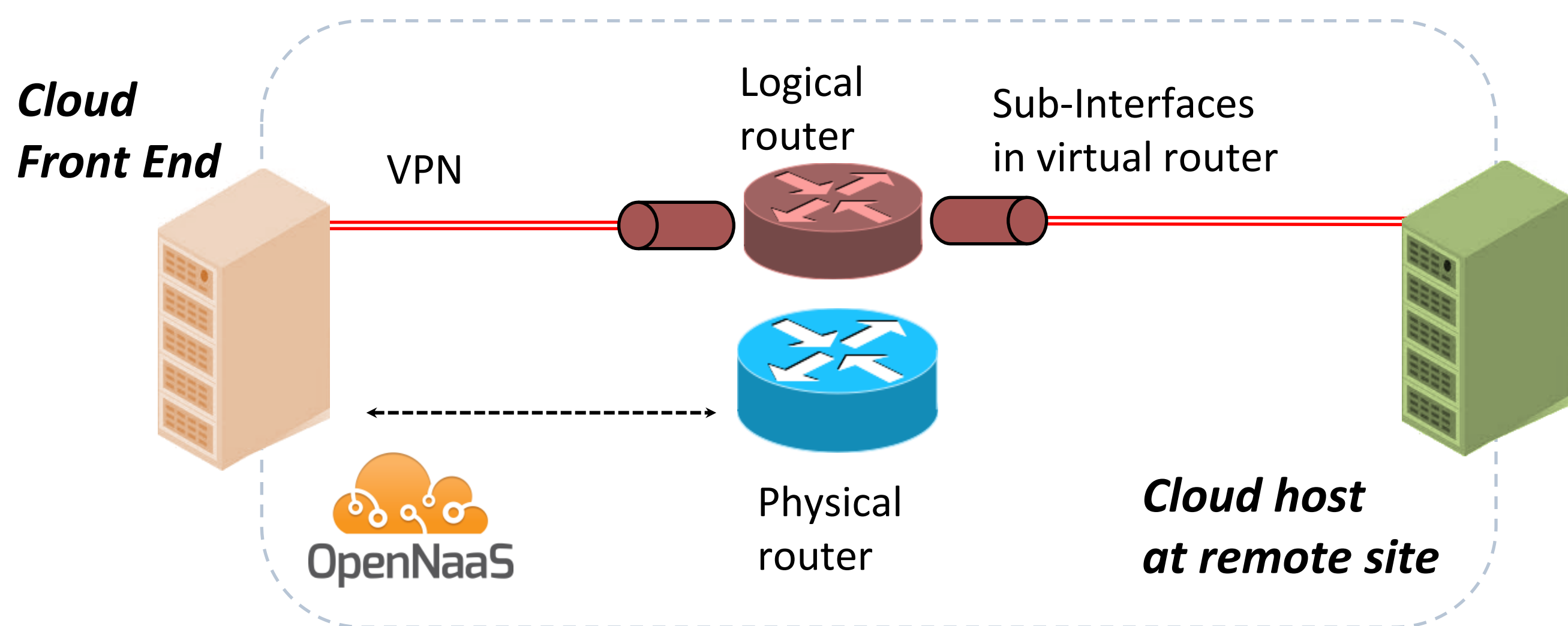## **Cloud** and **grid** computing provide important use cases for OpenNaaS

Distributed cloud site

OpenNaaS logical router hosted in NREN

VPN tunnel

University border routers

Cloud / grid operations firewall and router

Cloud or grid infrastructure can be distributed across multiple physical sites using OpenNaaS

A OpenNaaS created VPN running over IP can provide a low-disruption approach to create a cloud network.

Cloud migration

Universities and other organizations are interested in migrating services to the cloud.

The NREN provides a configurable network.
A cloud computing provider – the NREN or a commercial operator – provides clouds with a configurable address space.
The university campus grants partial access to OpenNaaS.

This will allow migration to the cloud without changing network addresses or updating legacy software.

Routers

SUNET CORE

Routers
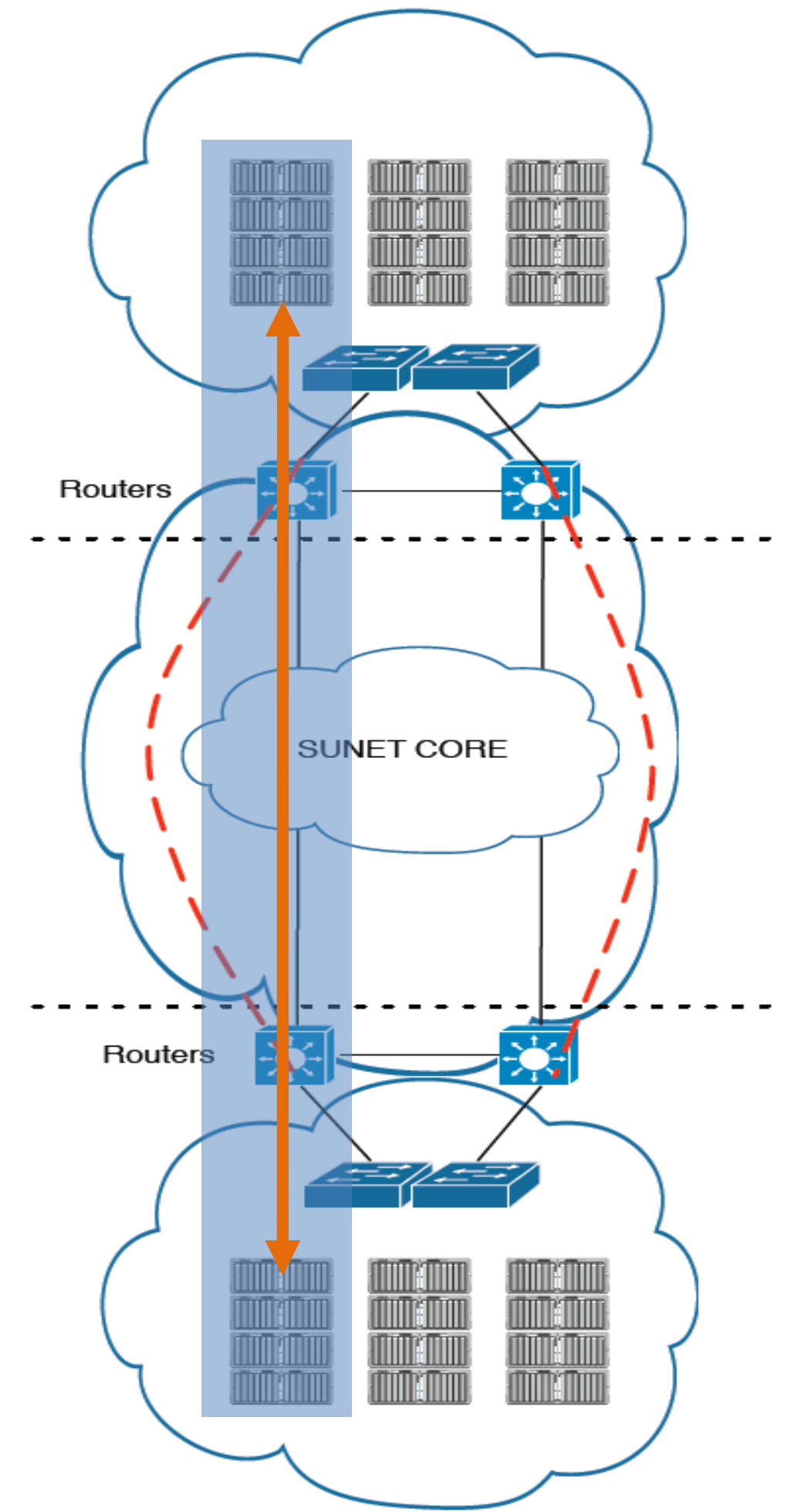
Find out more at
Mantychore.eu
OpenNaaS.org
info@opennaas.org

Cloud Front End

VPN

Logical router

Sub-Interfaces in virtual router

Physical router

Cloud host at remote site

OpenNaaS

Components of an OpenNaaS Created Network