

Lambda-Grid developments

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GigaPort
EU

University of Amsterdam

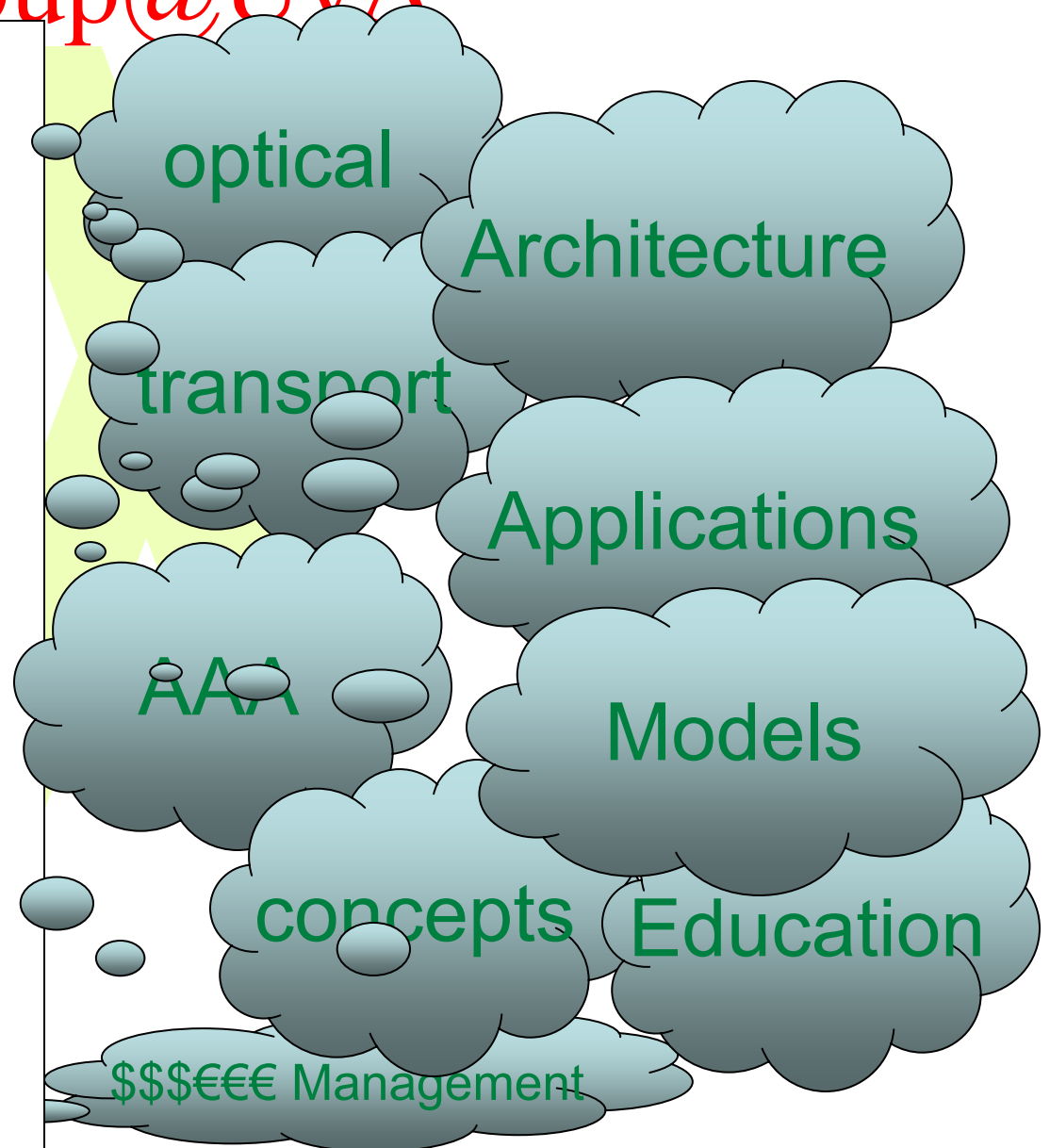
SARA
NCF



OSI model Advanced Internet Research

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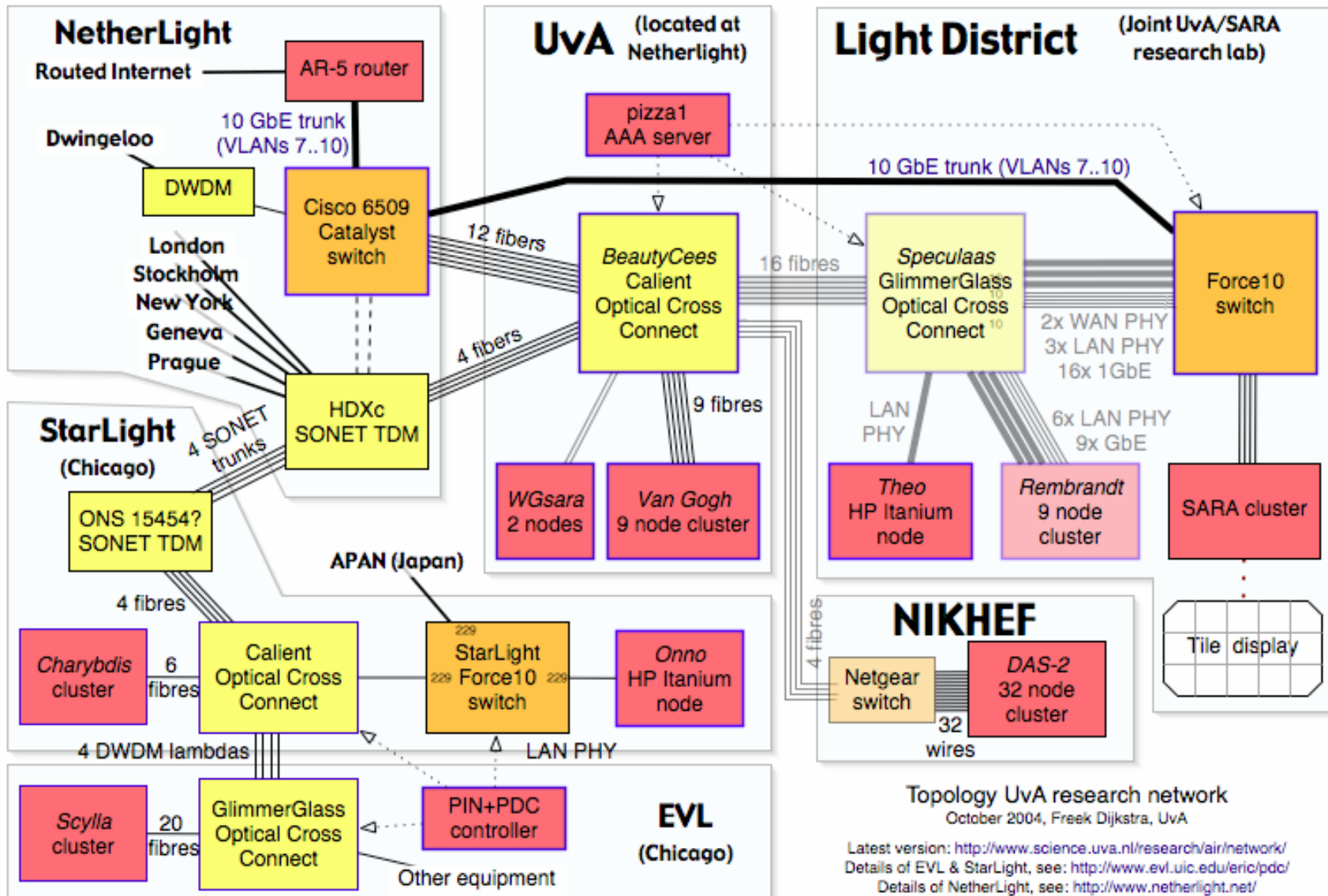
Research topics

- Optical networking architectures and models for usage
- Transport protocols for massive amounts of data
- Authorization of complex resources in multiple domains
- Embedding in Grid environments

Research on Networks in GP

- **Optical Networking:** What innovation in architectural models, components, control and light path provisioning are needed to integrate dynamically configurable optical transport networks and traditional IP networks to a generic data transport platform that provides end-to-end IP connectivity as well as light path (λ and sub- λ) services?
- **High performance routing and switching:** What developments need to be made in the Internet Protocol Suite to support data intensive applications, and scale the routing and addressing capabilities to meet the demands of the research and higher education communities in the forthcoming 5 years?
- **Management and monitoring:** What management and monitoring models on the dynamic hybrid network infrastructure are suited to provide the necessary high level information to support network planning, network security and network management?
- **Grids and access; reaching out to the user:** What new models, interfaces and protocols are capable of empowering the (grid) user to access, and the provider to offer, the network and grid resources in a uniform manner as tools for scientific research?
- **Testing methodology:** What are efficient and effective methods and setups to test the capabilities and performance of the new building blocks and their interworking, needed for a correct functioning of a next generation network?

OpenLight



Optical Exchange as Black Box

Optical Exchange

