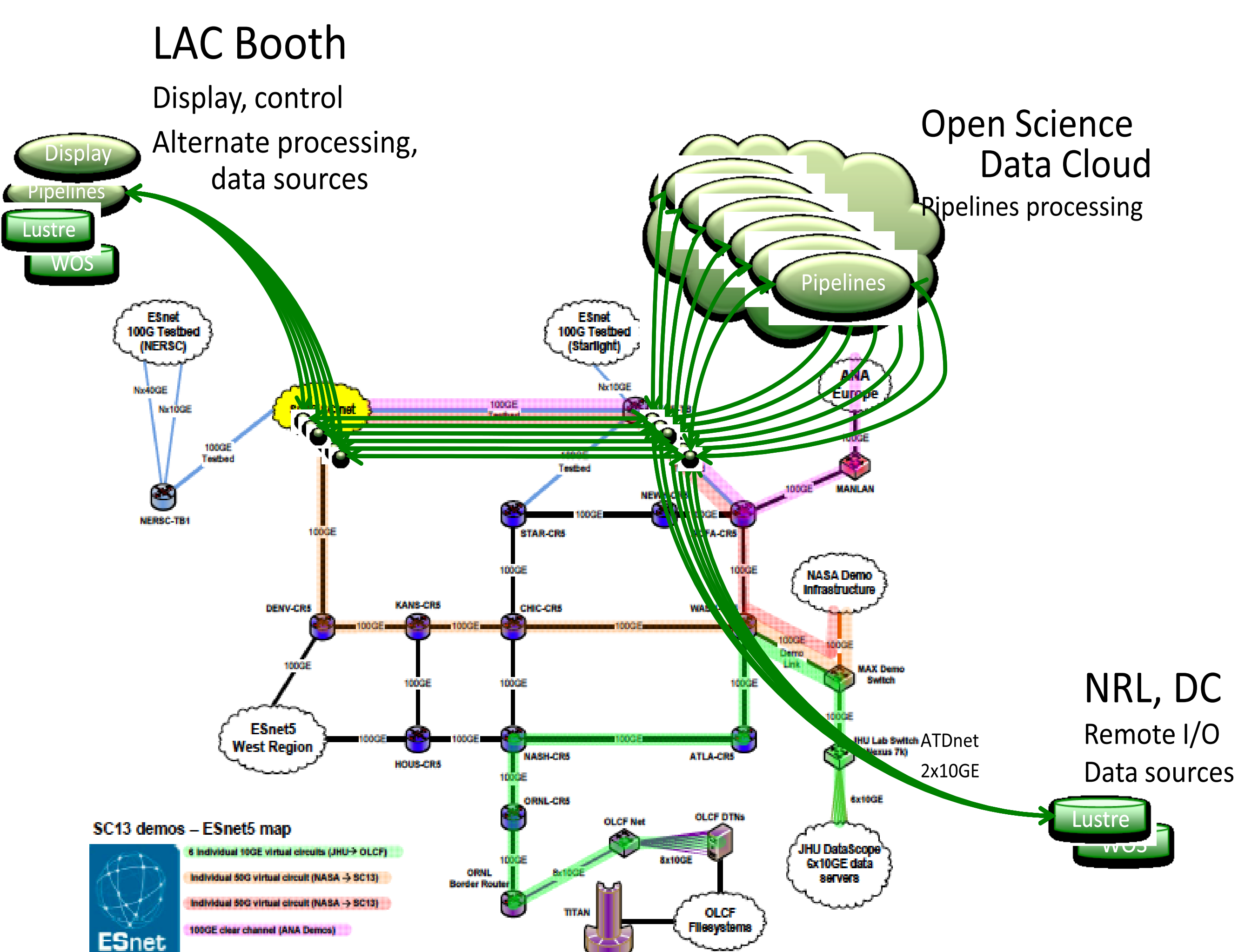


StarLight: High Performance Environment for Experimental Network Research

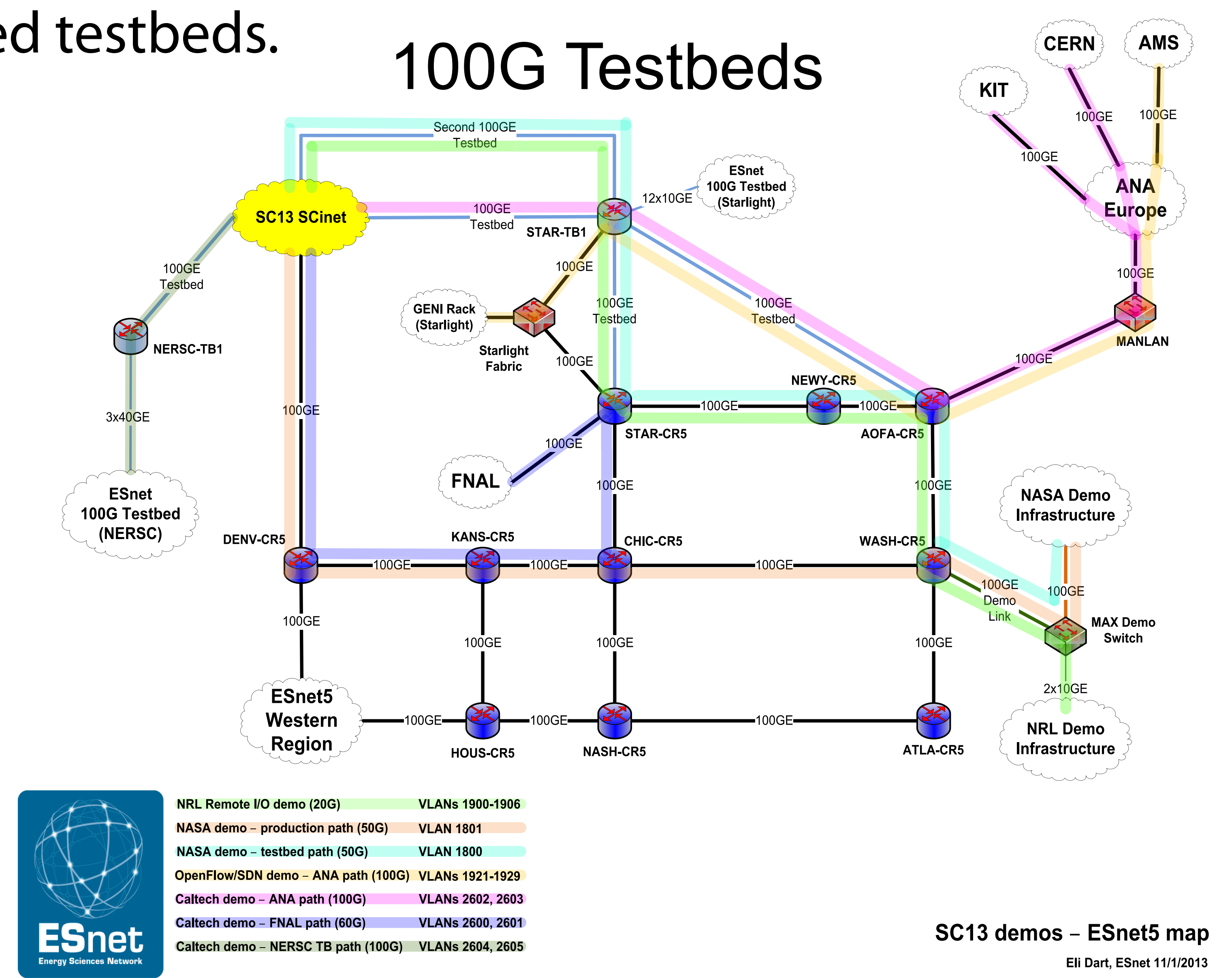
Selected StarLight Networking Testbeds

The International Center for Advanced Internet Research (iCAIR) at Northwestern University and its world-wide research partners are engaged in multiple initiatives that are creating 21st century communication services, architecture, and technologies in response to the demands of emerging and anticipated applications. This community is developing a new communication design model based on multiple emerging trends in advanced network research, including large scale distributed environments using service-oriented architecture along with sophisticated intermediate network middleware, which provides for exceptional flexibility, adjustability, and customization. This new model has been implemented at the StarLight International/National Communications Exchange facility, which is part of the Global Lambda Integrated Facility (GLIF). StarLight enables the development of globally distributed network environments within which it is possible to create customized integrated heterogeneous networks, which today supports dozens of major national and international advanced networks as well as many major experimental network research testbeds. Below are selected examples of StarLight supported testbeds.

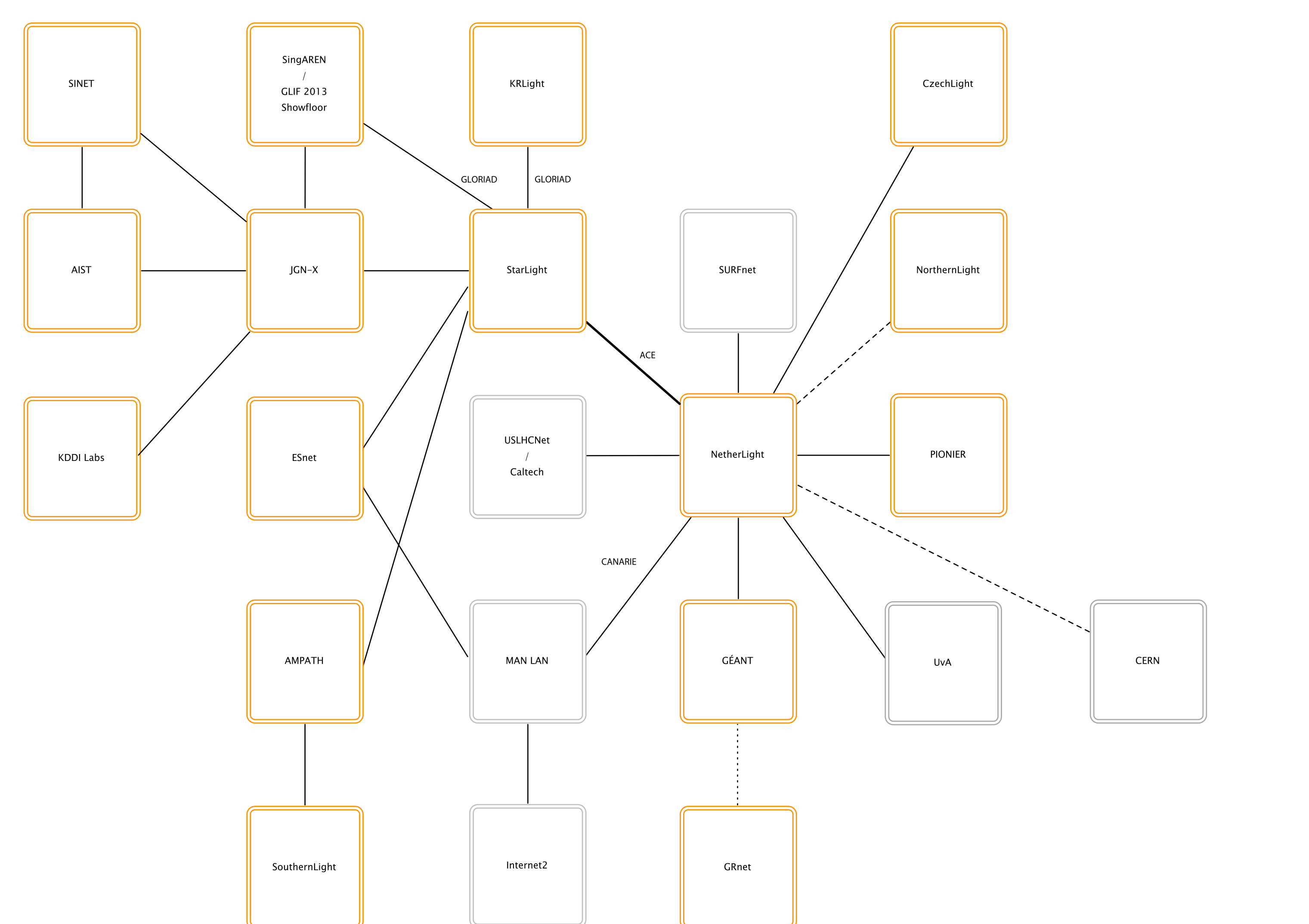
100G Remote I/O Demo



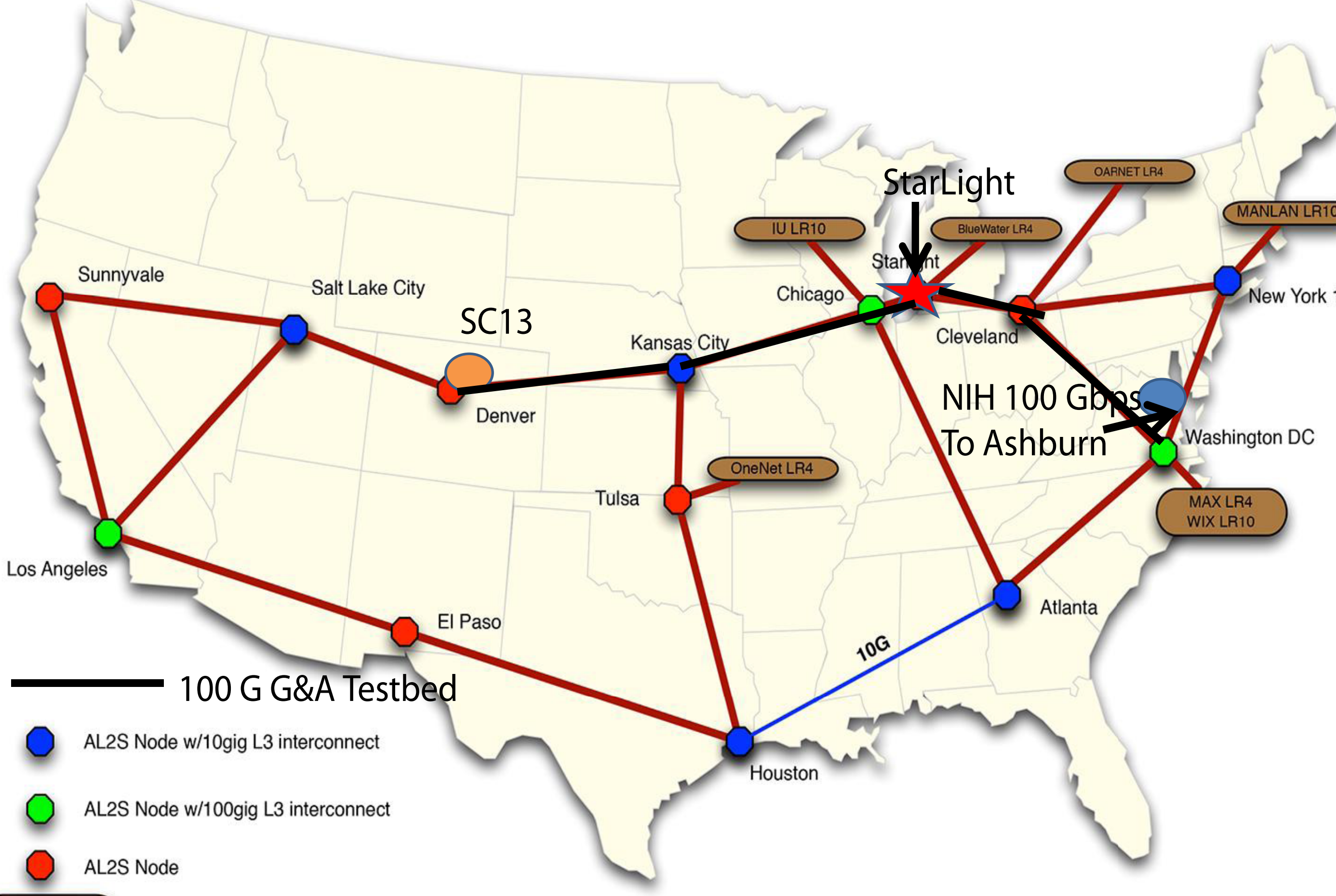
100G Testbeds



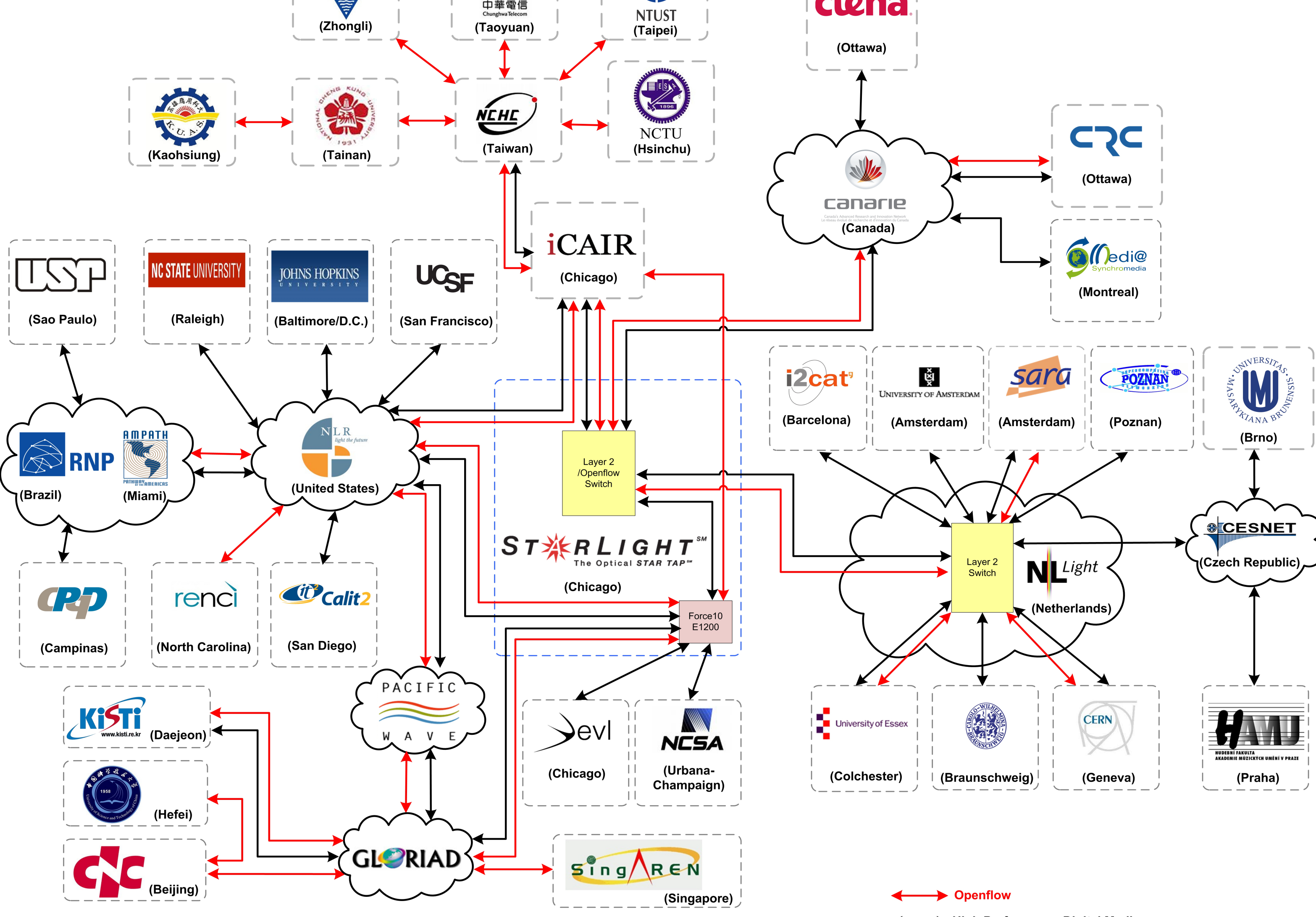
NSI Automated GOLE Worldwide Schematic



NIH-OCC Computational Genomics and Analytics 100Gbps Testbed



HPDMnet High Performance Digital Media Network



LHCONE

