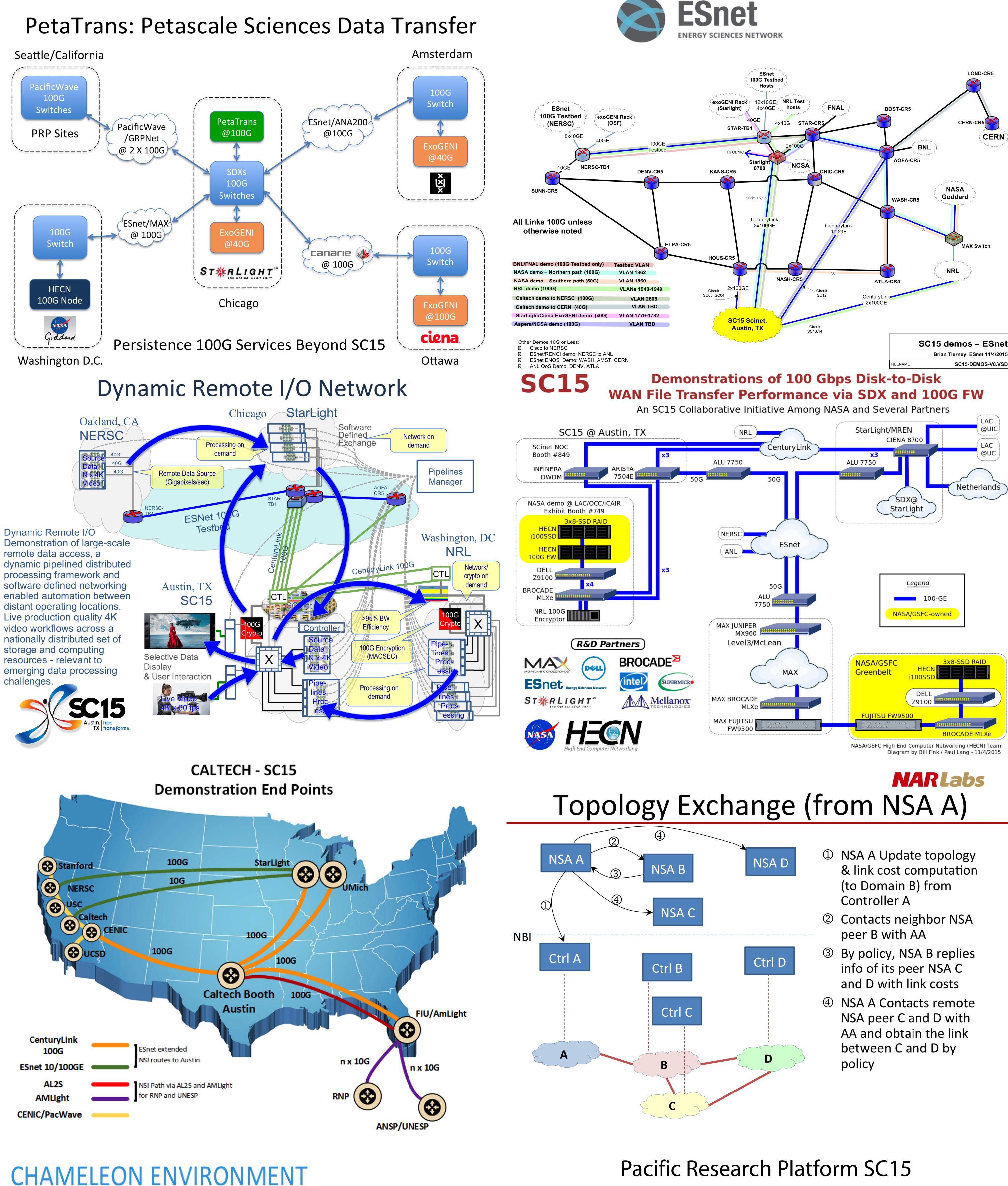
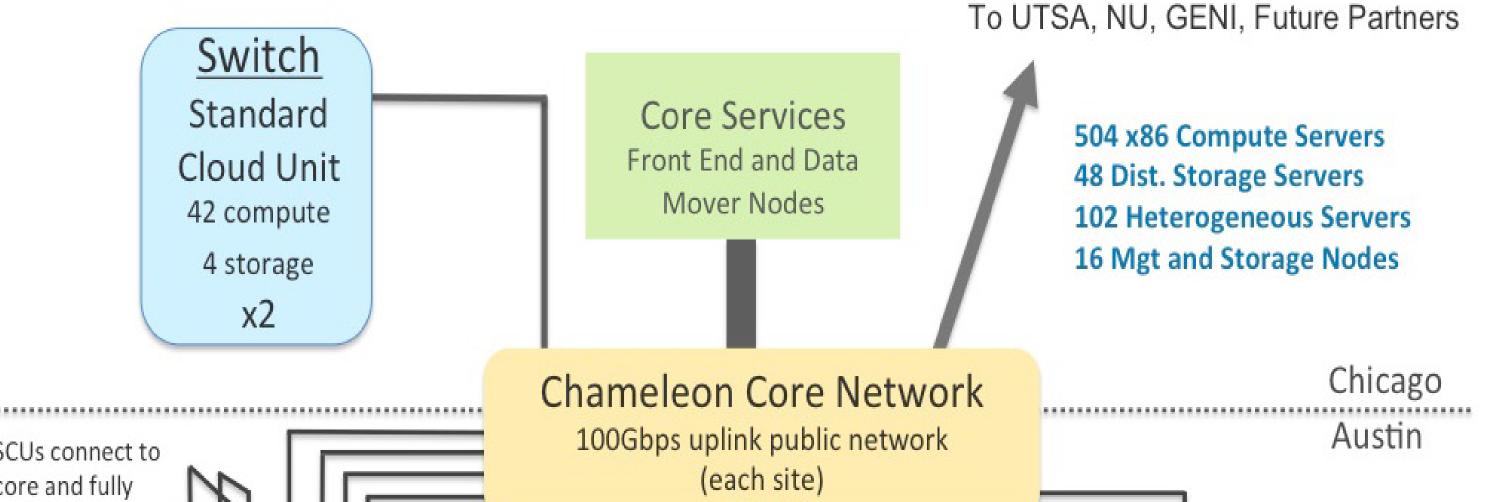
StarLight: Software Defined Network Exchange (SDX) For Data Intensive Science@100Gbs

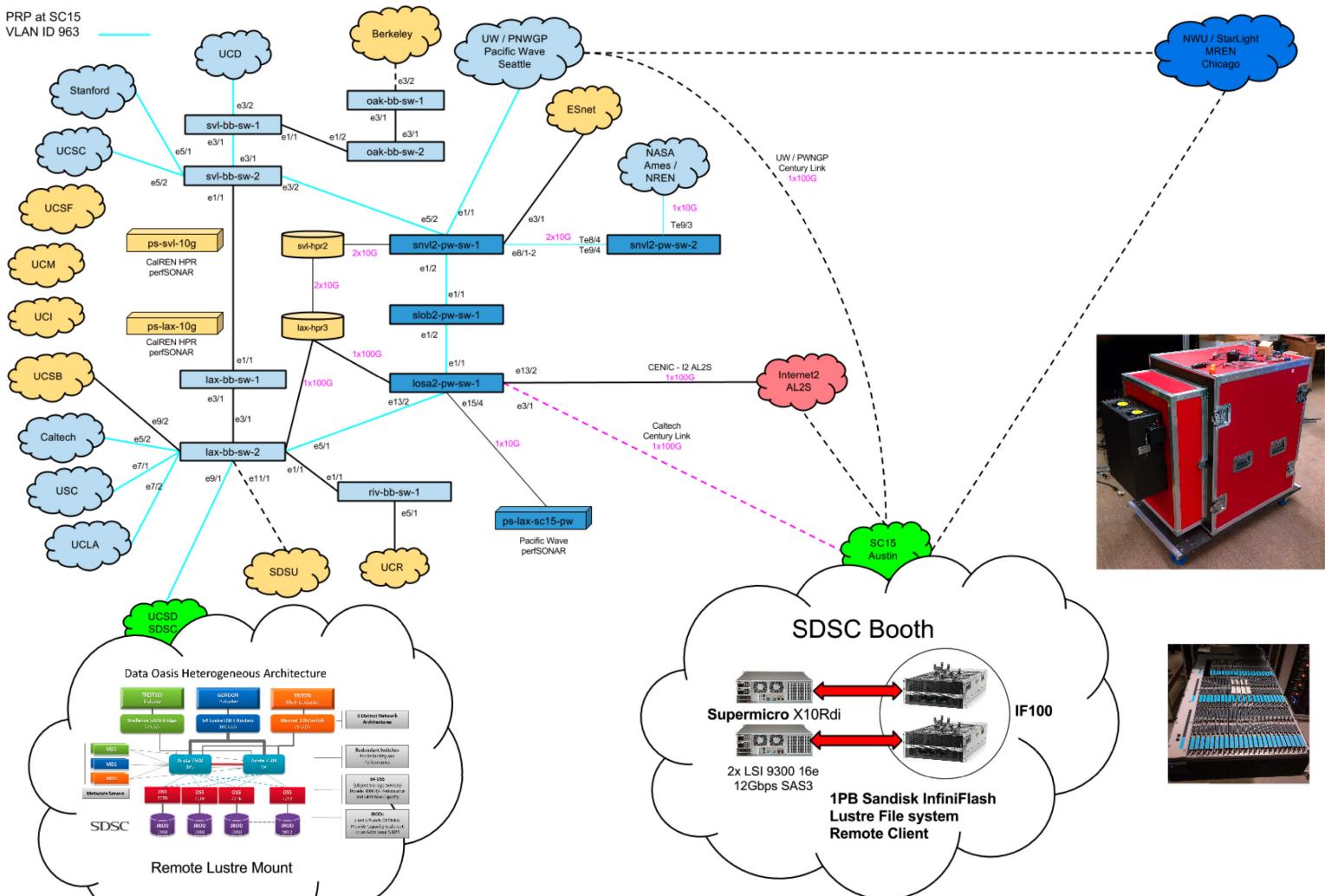
Selected StarLight Networks

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 ultra scale capacity, high degrees of programmability, large scale distributed environments using service-oriented architecture along with sophisticated intermediate network middleware, which provides for exceptional performance, 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). Through its National Science Foundation funded Software Defined Networking Exchange (SDX), 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.





SCUs connect to core and fully connected to each other Heterogeneous Switch Cloud Units Standard Core Services Alternate Processors and Networks Cloud Unit 3 PB Central File Systems, Front End 42 compute and Data Movers 4 storage x10



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