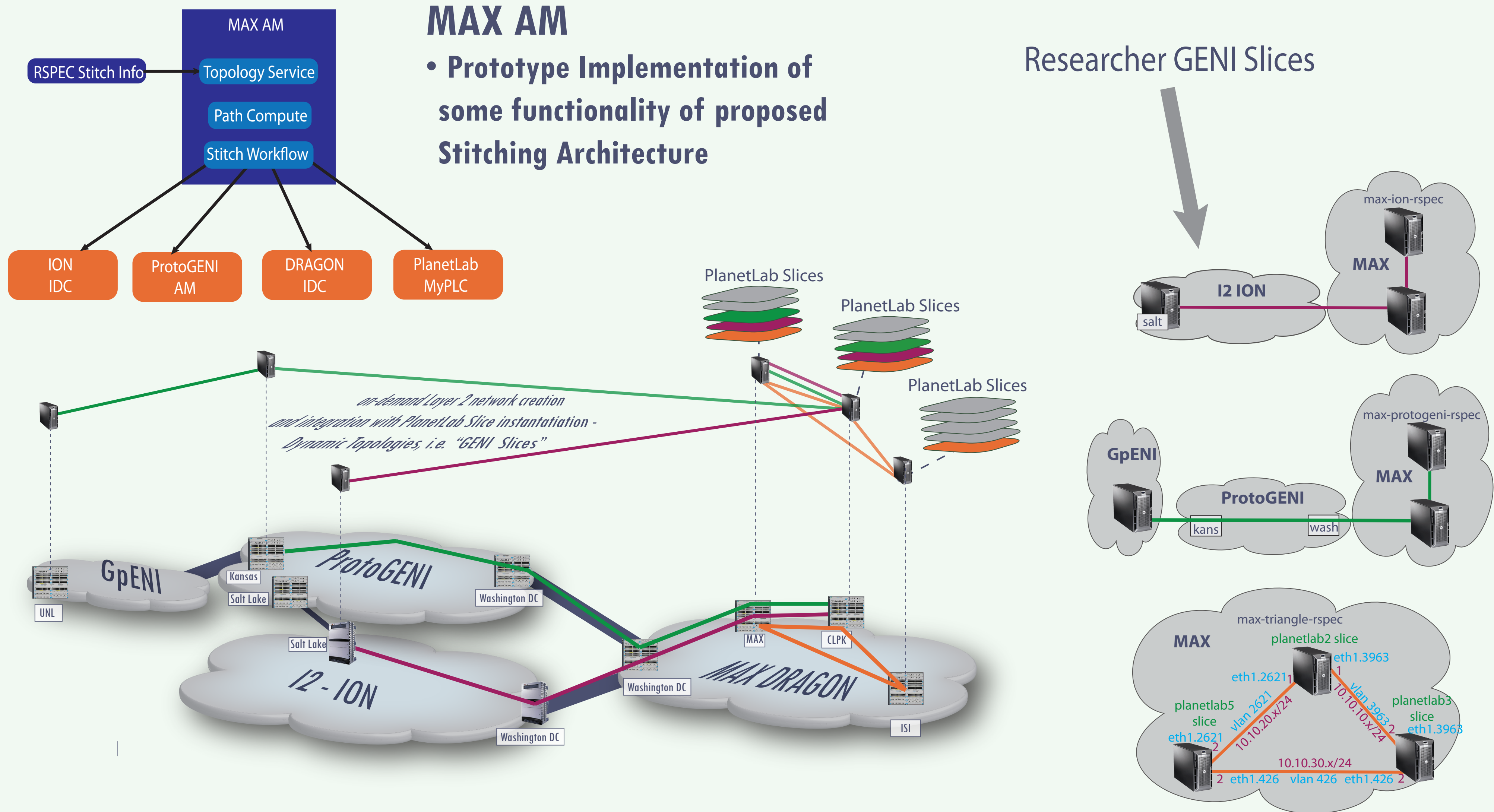# MAX GENI Facility

## Enabling GENI Services
## on MAX Regional Network

Mid-Atlantic Crossroads (MAX)
University of Southern California/Information Sciences Institute (USC/ISI)

**Proposed GENI Stitching Architecture**

http://geni.maxgigapop.net/twiki/bin/view/GENI/NetworkStitching

**MAX AM**

- Prototype Implementation of some functionality of proposed Stitching Architecture

Researcher GENI Slices



**Integration of Host Resources, Network Resources, Externally Stitched Paths**

---

**Service Interface**
- GENI SFA
- MAX AM Interface

**Substrate Resource Aware and Control Layer**
- Understands the heterogeneous set of resources in the substrate
- Workflows to set up dynamic topologies

**Technology Specific Control**
- specific to underlying resources
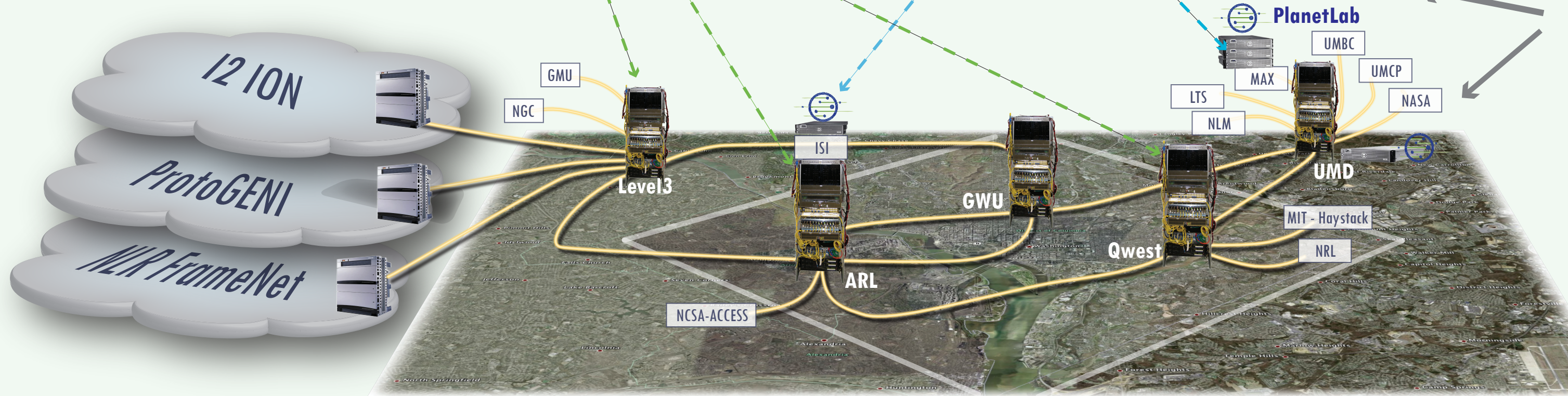


**Substrate Provisioning-GENI Slice**
- experiment specific combination of diverse resources
- PlanetLab
- DRAGON dynamic network paths
- Stitched paths across external networks and Aggregates
- Future Cloud Compute resources

**GENI Substrate**  Washington DC Metro Area DRAGON footprint

Information Sciences Institute
USC UNIVERSITY OF SOUTHERN CALIFORNIA

MAX Mid-Atlantic Crossroads

NSF