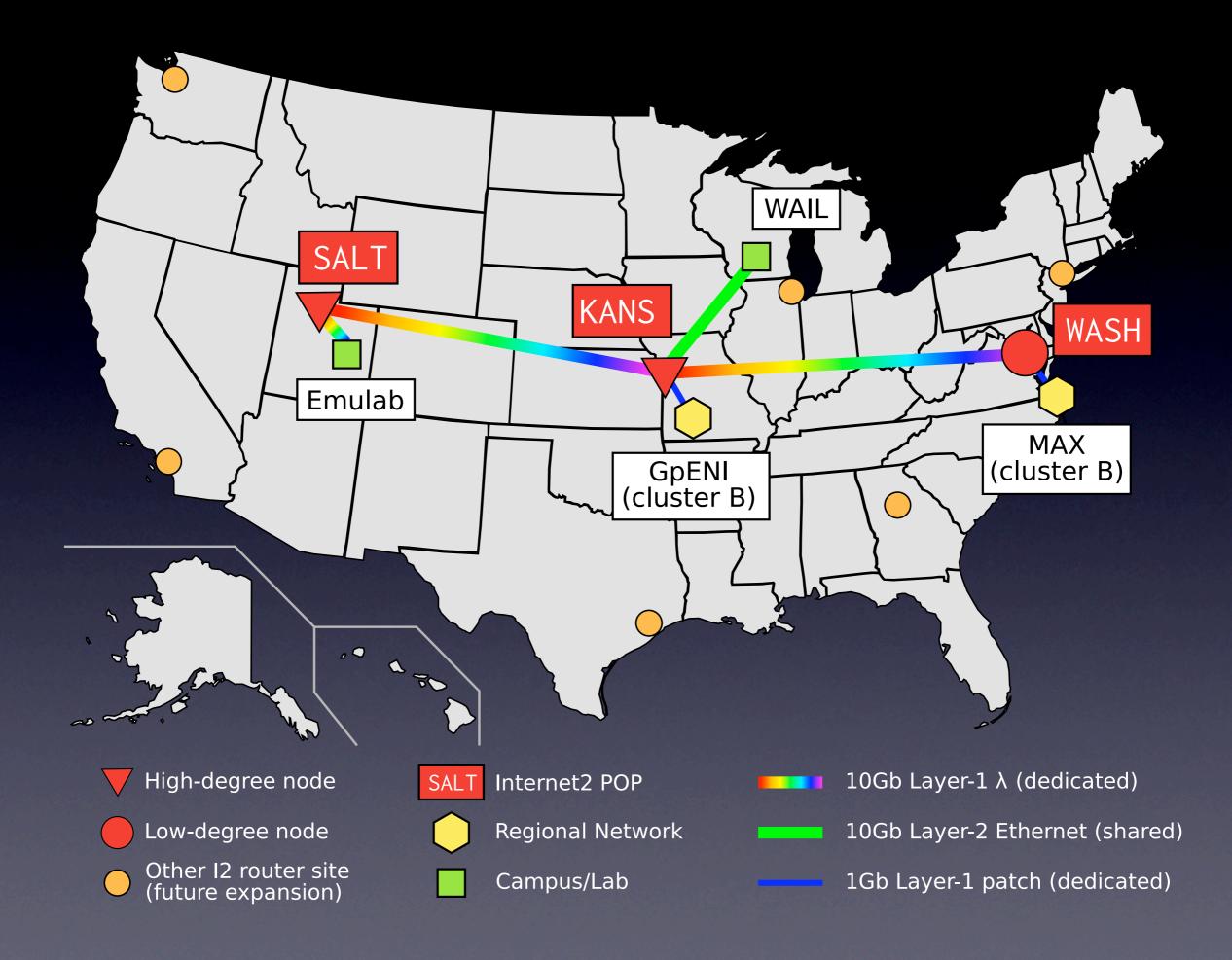
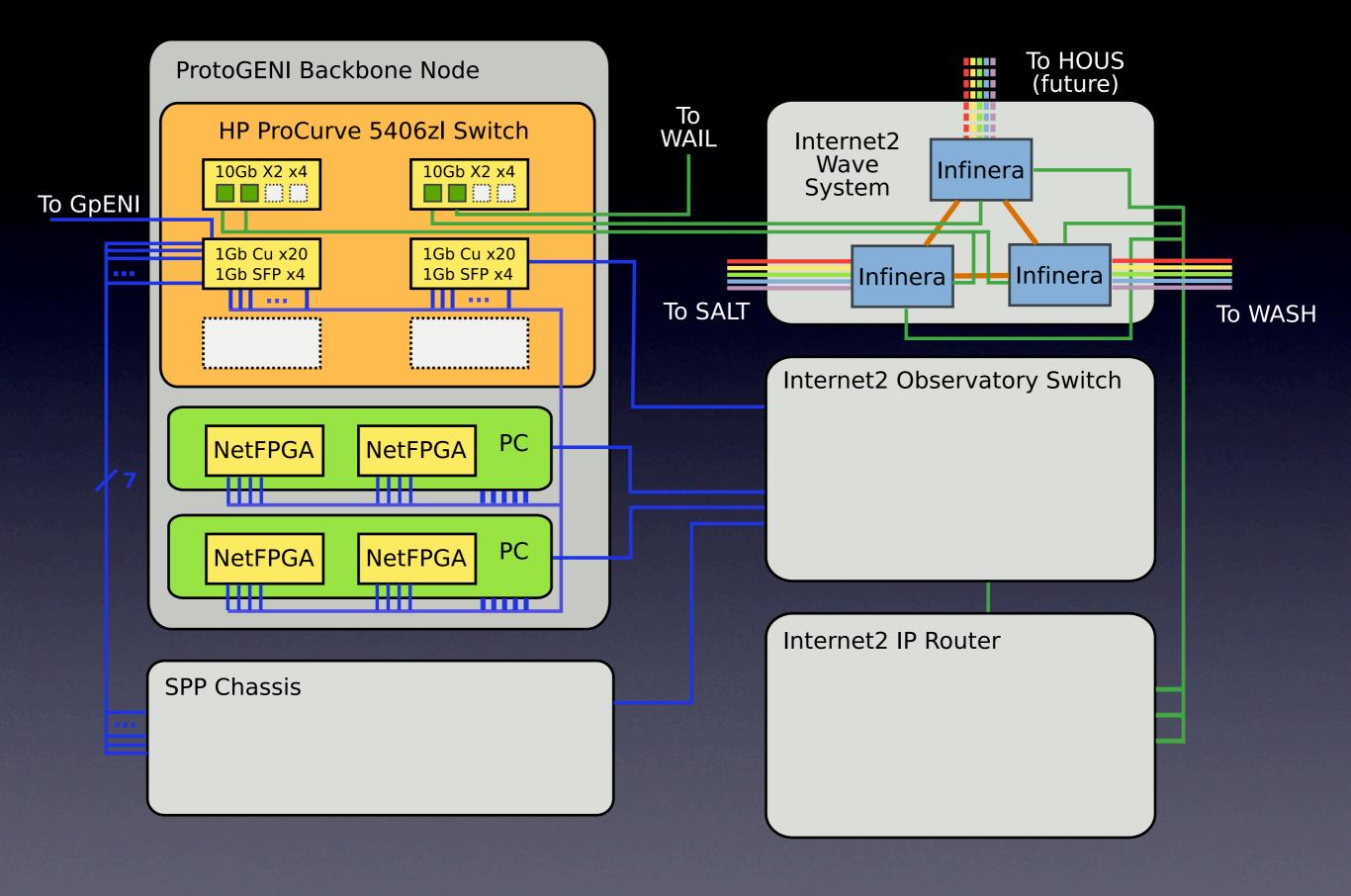
ProtoGENI Backbone Plans and Status

Robert Ricci GEC5 July 21, 2009





Backbone Control

Switches will be controlled by AM at Utah snmpit, Emulab switch control tool CM interface and ProtoGENI RSpec Available to cluster B members too For Emulab edge sites, will support VLAN stitching of experimental nets

Backbone Provisioning

• Will start with conservative BW allocation

- May revisit this later
- Tracked in ProtoGENI DB
- Enforced by switch port speed, end hosts in some cases
- Will provide port counters to GMOC

Status

- Hardware procurement going slow
- First node deployed planned in August
- Next 2 might have to wait until September
- Luckily (?), year 2 starts soon
 - Priority to sites near likely connections to other projects/campuses (3 more)



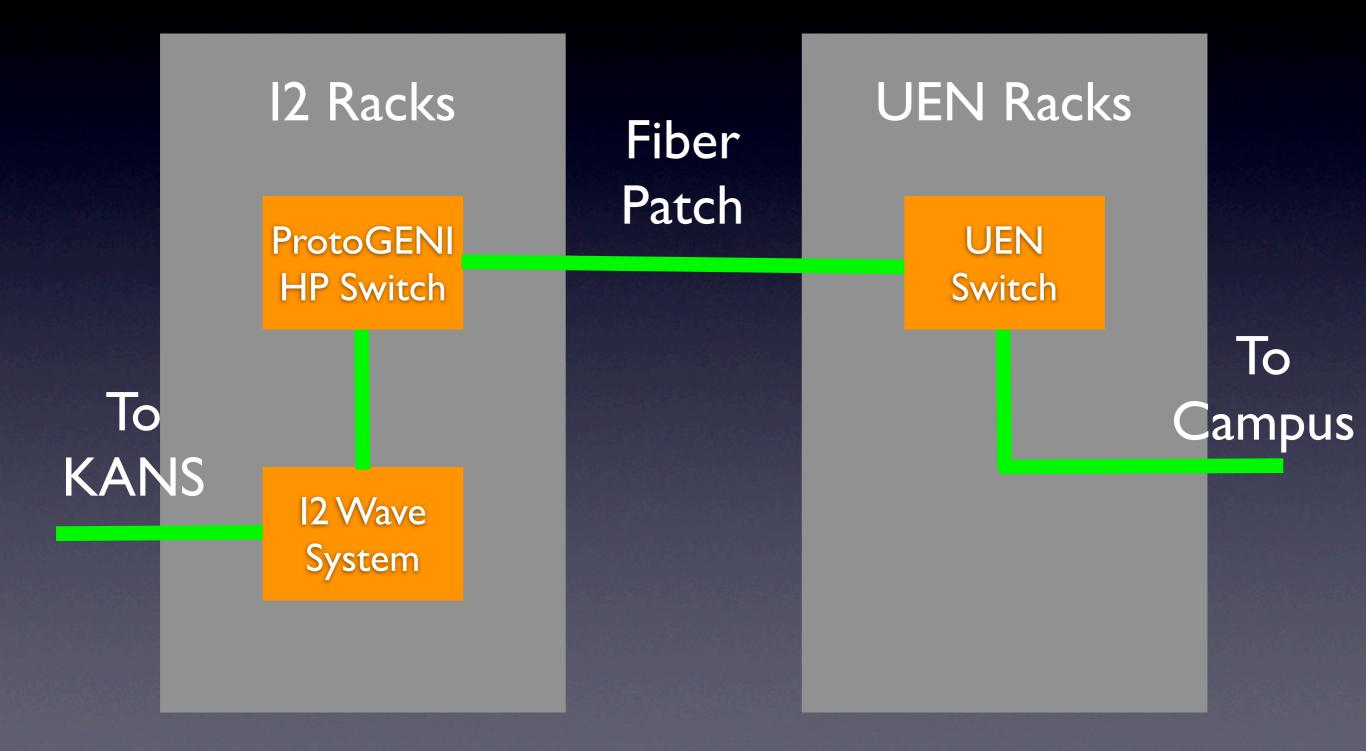
Who Gets Involved?

- Your lab/department (LAN)
- Campus (probably need to cross campus)
- Regional network (connects campus to I2)
- Internet2 (Patch between regional an PG)
- ProtoGENI (switch port)

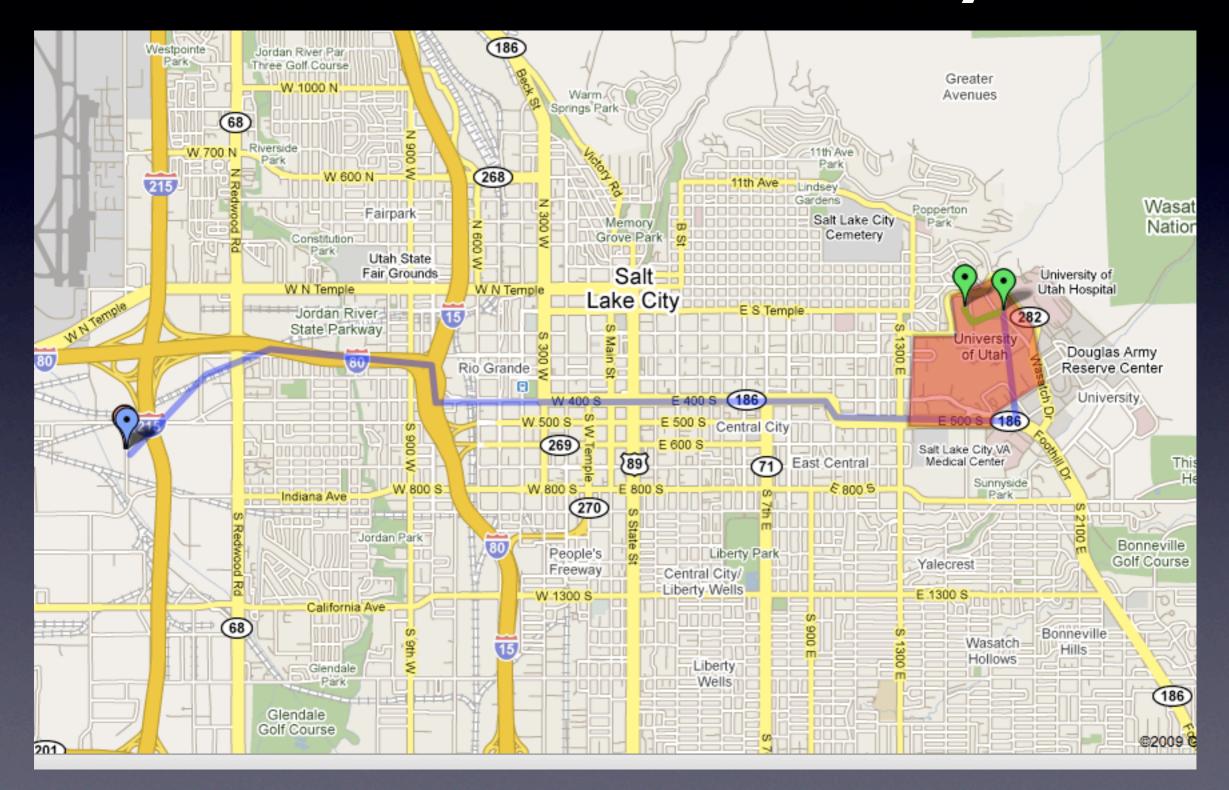
Find Out

- Who is your regional?
 - Can they provide layer-2 connectivity?
 - Can it be exclusive (preferred)?
 - Where do they connect to I2?
 - Additional physical connections needed?
- Is your campus on DCN?
- How would you get across campus?

Utah: L3 POP



Utah: Cross-City



Utah: Cross-Campus

