

HiPerGator and infrastructure for working with data

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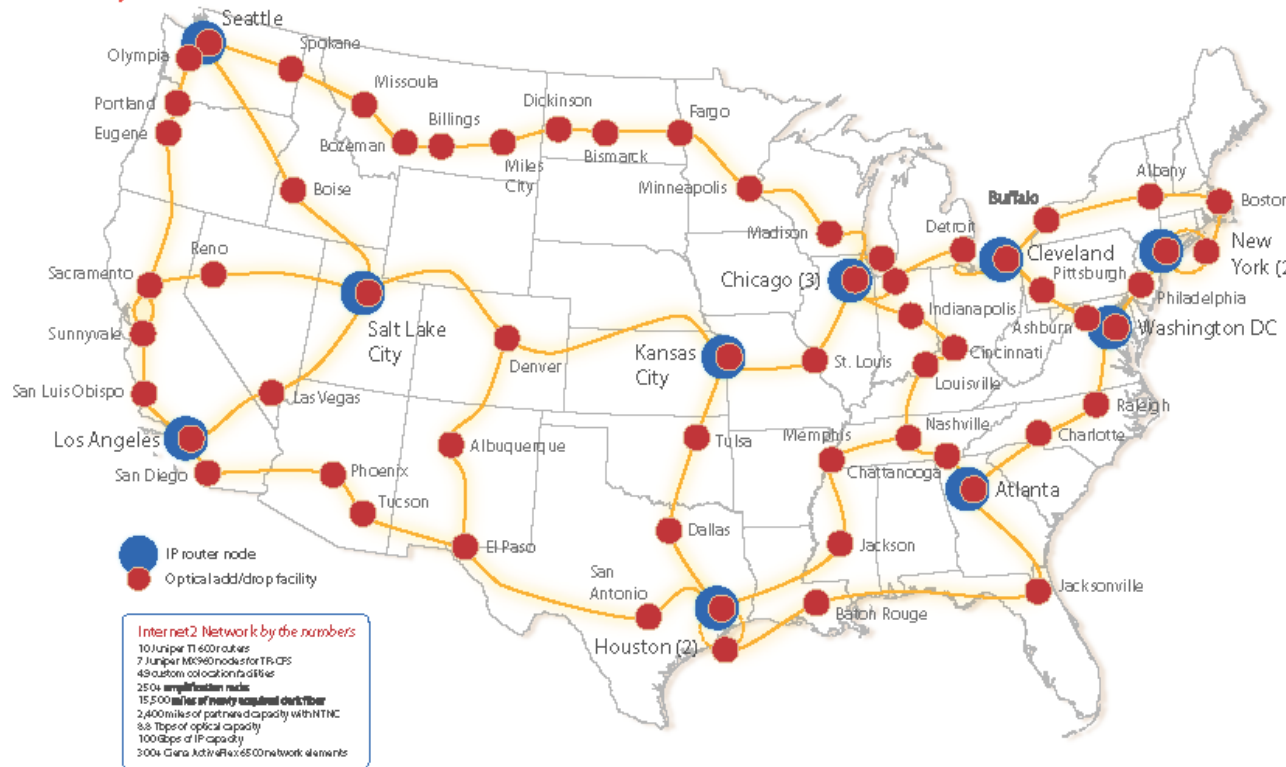
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Internet2 Innovation Platform



Internet2 Planned 100 Gigabit Infrastructure Topology

Draft - Last updated 27 Mar 2012



IN SUPPORT OF
U.S.UCAN

NETWORK PARTNERS



UF infrastructure

- ▶ New 450 m² 2.25 MW machine room
- ▶ Internet2 connection at 100 Gpbs
- ▶ Campus Research Network 200 Gbps
- ▶ OpenFlow capable switches
 - Software defined networking
 - Frictionless data movement

HiPerGator supercomputer



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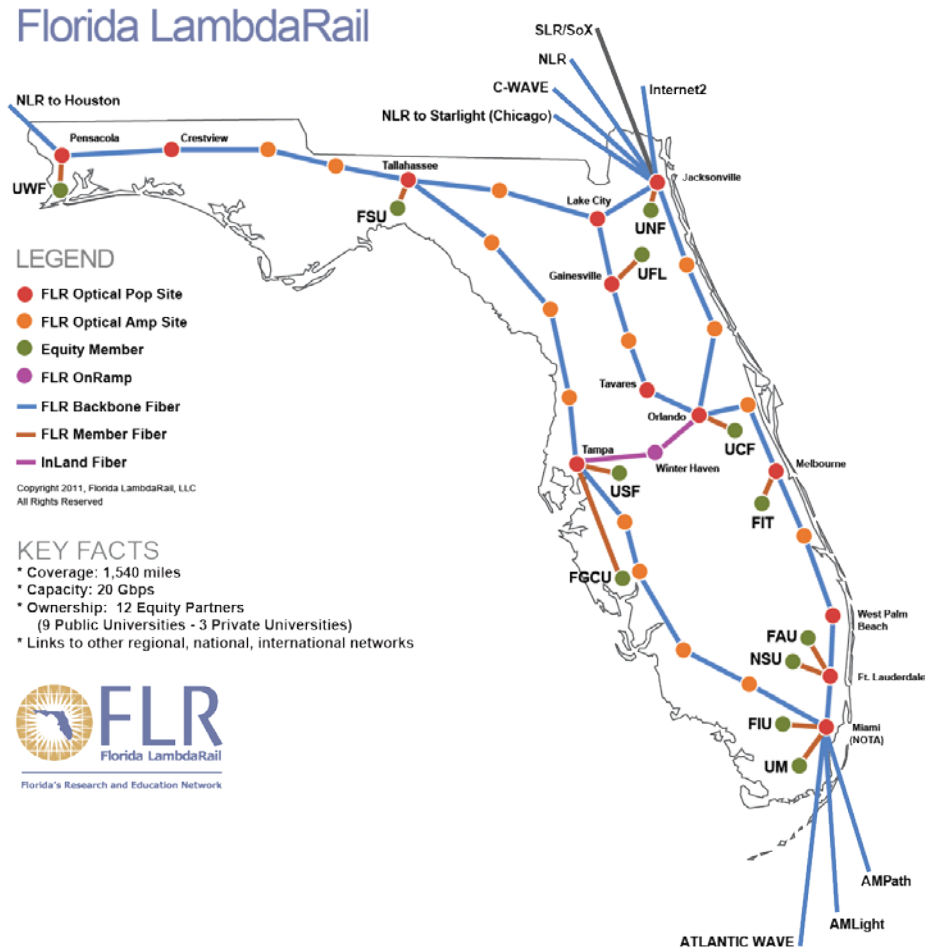
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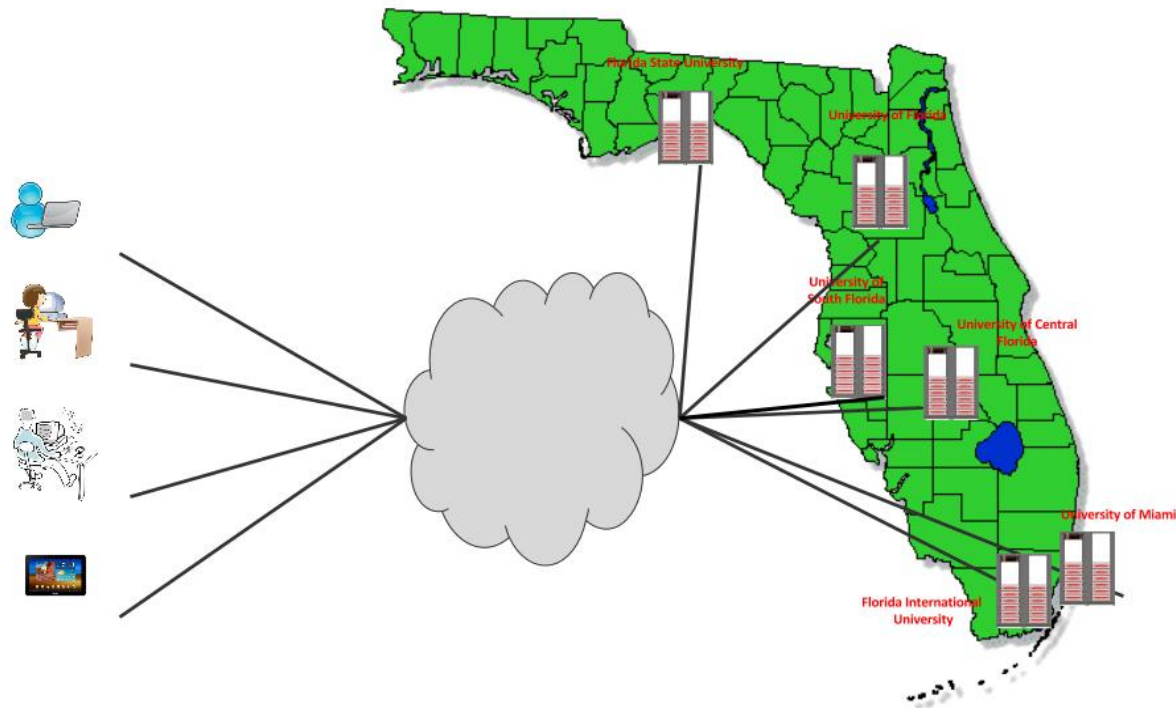
UF RC resources

- ▶ Clusters with over 23,000 compute cores
 - HiPerGator supercomputer: 16,000
 - AMD Abu Dabi cores
 - 1,088 core Ethernet cluster for HTC
 - 512 core cluster dedicated to MPI
 - parallel jobs needing more than 32 cores
 - Cluster with 80 GPUs
- ▶ About 4.5 PetaByte of storage
 - Two 100 TB NAS systems for long term storage
 - 2 PB fast Lustre parallel file system

Florida Lambda Rail



Sunshine State Education Research Computing Alliance



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