



# GENI

## Wrap-up

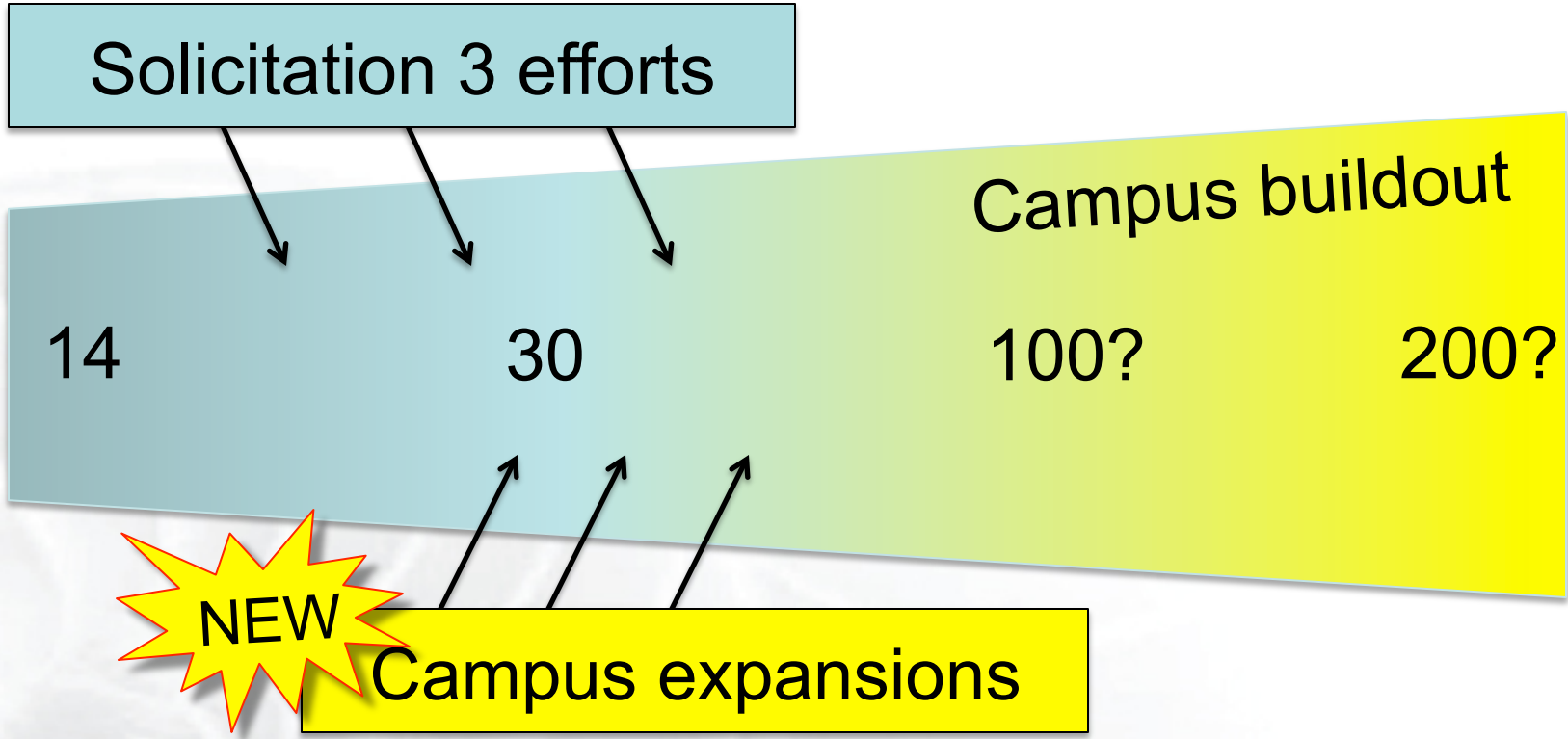
# GENI Engineering Conference 13

## UCLA, Los Angeles

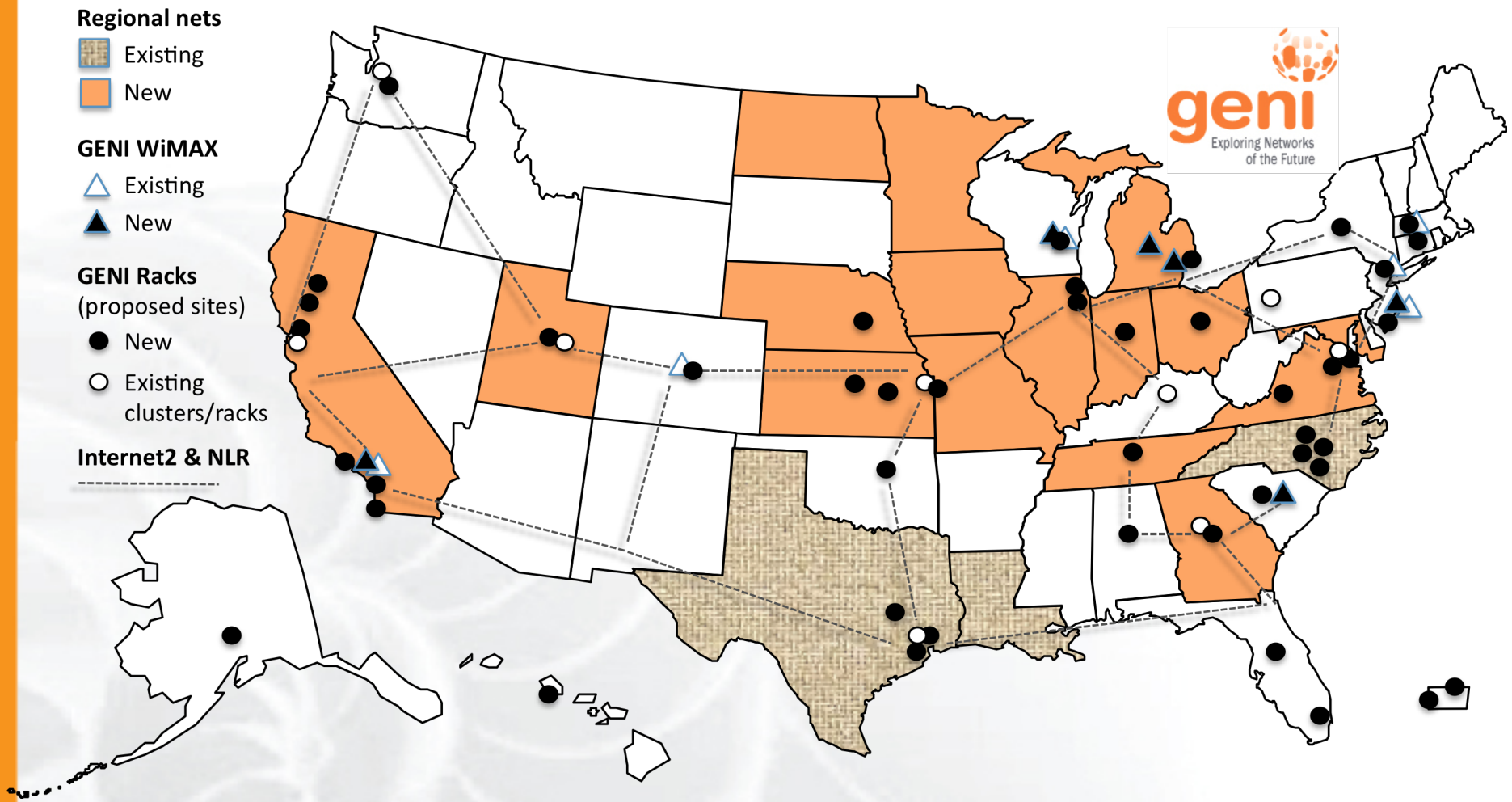
Chip Elliott  
GENI Project Director  
[www.geni.net](http://www.geni.net)

# Growing GENI to 100-200 campuses

GENI racks, OpenFlow, WiMAX, training, ops



—————→  
Spiral development . . .



(as proposed; actual footprint to be engineered)

## GENI campus expansion



Dr. Larry Landweber, U. Wisconsin

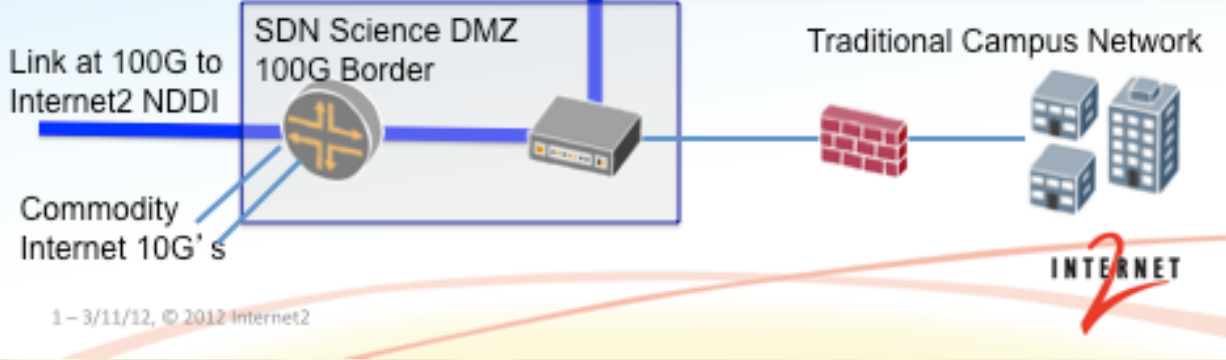
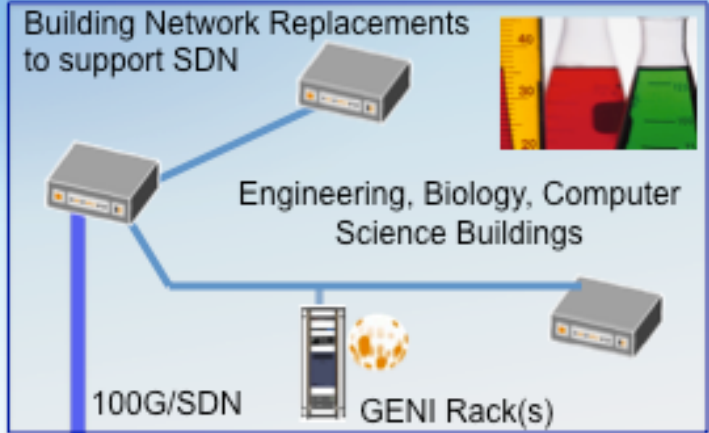
- **“GENI-enabled” means . . .**  
OpenFlow + GENI racks, plus  
WiMAX on some campuses

- **Current GENI campuses**  
Clemson, Colorado, Columbia,  
Georgia Tech, Indiana,  
Princeton, Kansas State, NYU  
Poly, Rutgers, Stanford,  
UCLA, U MA Amherst, U  
Washington, U Wisconsin
- **CIO Initiative - 19 campuses**  
Case Western, Chicago,  
Colorado, Cornell, Duke,  
Florida International, U Kansas,  
Michigan, NYU, Purdue,  
Tennessee, U FLA, University  
of Houston, UIUC, U MA  
Lowell-Amherst, Utah,  
Washington, Wisconsin
- **Rapidly growing waitlist**



## Innovation Investment on the Campus

- Leading Campuses quickly positioned for OpenFlow / SDN application innovation and data intensive science delivery
- Start with SDN updates in major science buildings
- Support pervasive 100G
- Support Science-DMZ
- Begin "GENI-enabling" campus



1 - 3/11/12, © 2012 Internet2

- Funds campus cyber-infrastructure for domain science **and for computer science**
- Can fund "GENI enabling" your campus!
- Can help build a coherent, end-to-end GENI across the United States
- **Interested? Talk to your CIO !**

- See: <http://www.nsf.gov/pubs/2012/nsf12541/nsf12541.htm>
- Internet2 and GPO can help you engage with your CIO and domain scientists.
- Contacts: [rs@internet2.edu](mailto:rs@internet2.edu) or [larry.landweber@gmail.com](mailto:larry.landweber@gmail.com)

- **Kaiqi Xiong, RIT**
  - First GENI Research and Educational Experiment Workshop
  - Thurs / Friday (here)
- **Jeannie Albrecht, Williams**
  - Curricula for Undergraduate Courses in Distributed Systems
  - before GEC 14 (Boston)
- **Nick Feamster, GA Tech**
  - “Living lab”
  - Being planned
- **ACM SIGCOMM 2012**
  - Workshop on Hot Topics in Software Defined Networking
- **ICC 2012**
  - Workshop on Software Defined Networks (SDN'12)
- **ICCCN 2012**
  - Track on Network Architectures and Clean-Slate Designs
- **TridentCom 2012**
  - Testbeds, Experimentation and Innovation for the Future Internet

Special issue on Future Internet Testbeds –  
**Computer Networks**, James P. G. Sterbenz et al, eds.

## Using GENI for education Funding GENI undergrads (REUs)

- Great opportunity to fund undergraduate research
  - You can fund your undergrads to participate in GENI
  - Typically requests support for  $\leq 2$  undergrads for 1 year
  - They must be citizens or permanent residents of the United States or its possessions
  - Rough guideline: support averages about \$8,000 per student per year, which might include \$6,400 for student stipend support and \$1,600 (or 25%) for administrative costs
- How to request funds
  - First come, first served!
  - **Eligibility** – you may submit a REU proposal to the GPO if you have a GPO subcontract under Solicitation 1 or 3 (not ARRA funding – sorry)
  - **How to** – fill in template and email to GPO (see Henry Yeh email, 3/5/12 2:55 PM)
  - **Deadline: March 16, 2012**
  - Detailed information on REU funding:  
<http://www.nsf.gov/pubs/2009/nsf09598/nsf09598.pdf>