



ESnet
ENERGY SCIENCES NETWORK

Learning to trust is one of life's most difficult tasks.

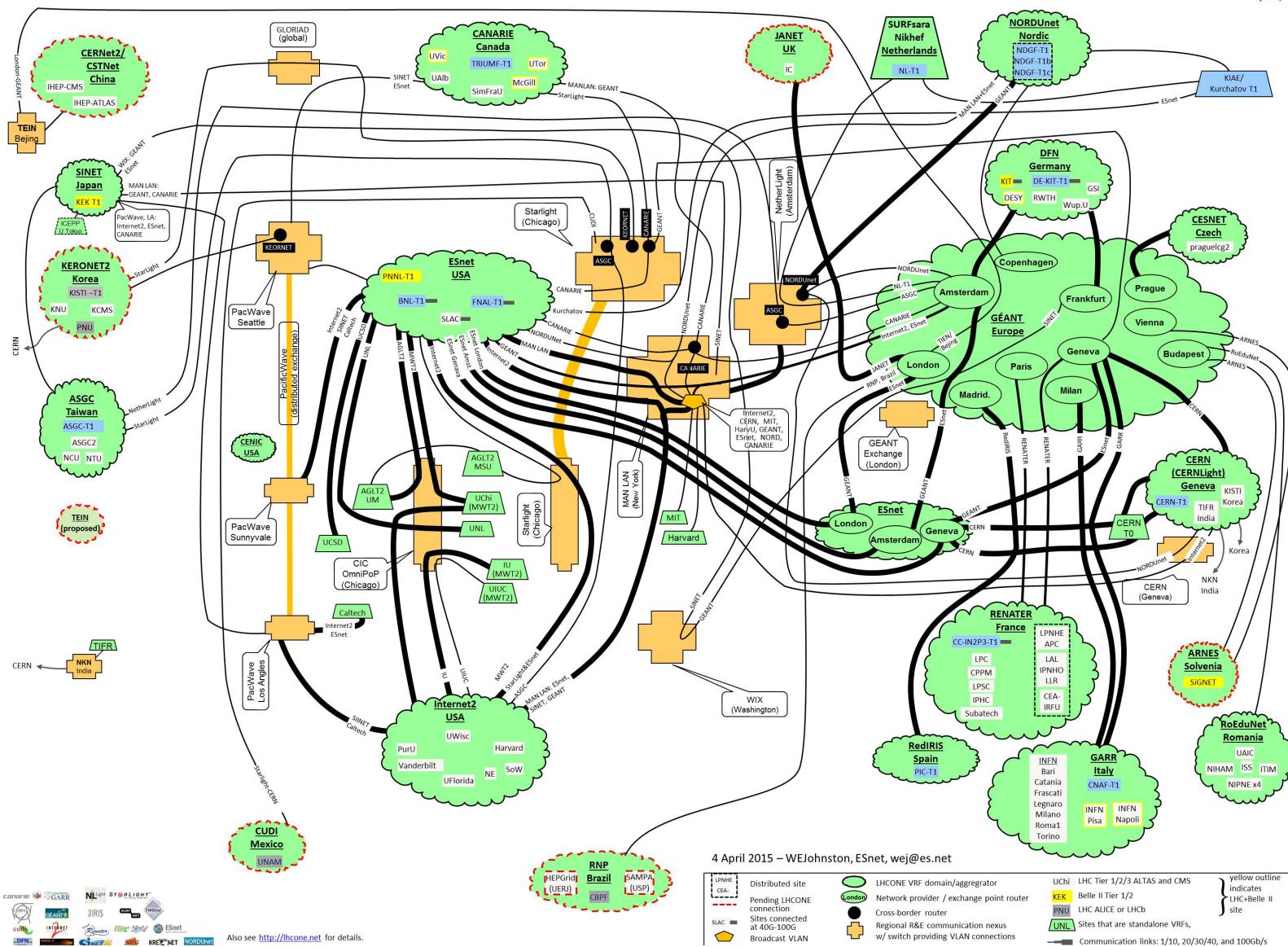
- Isaac Watts

Inder Monga
SARnet presentation
@ Global Summit, April 2015

Multi-domain is our DNA

LHCONE: A global infrastructure for the High Energy Physics (LHC and Belle II) data management

1/1



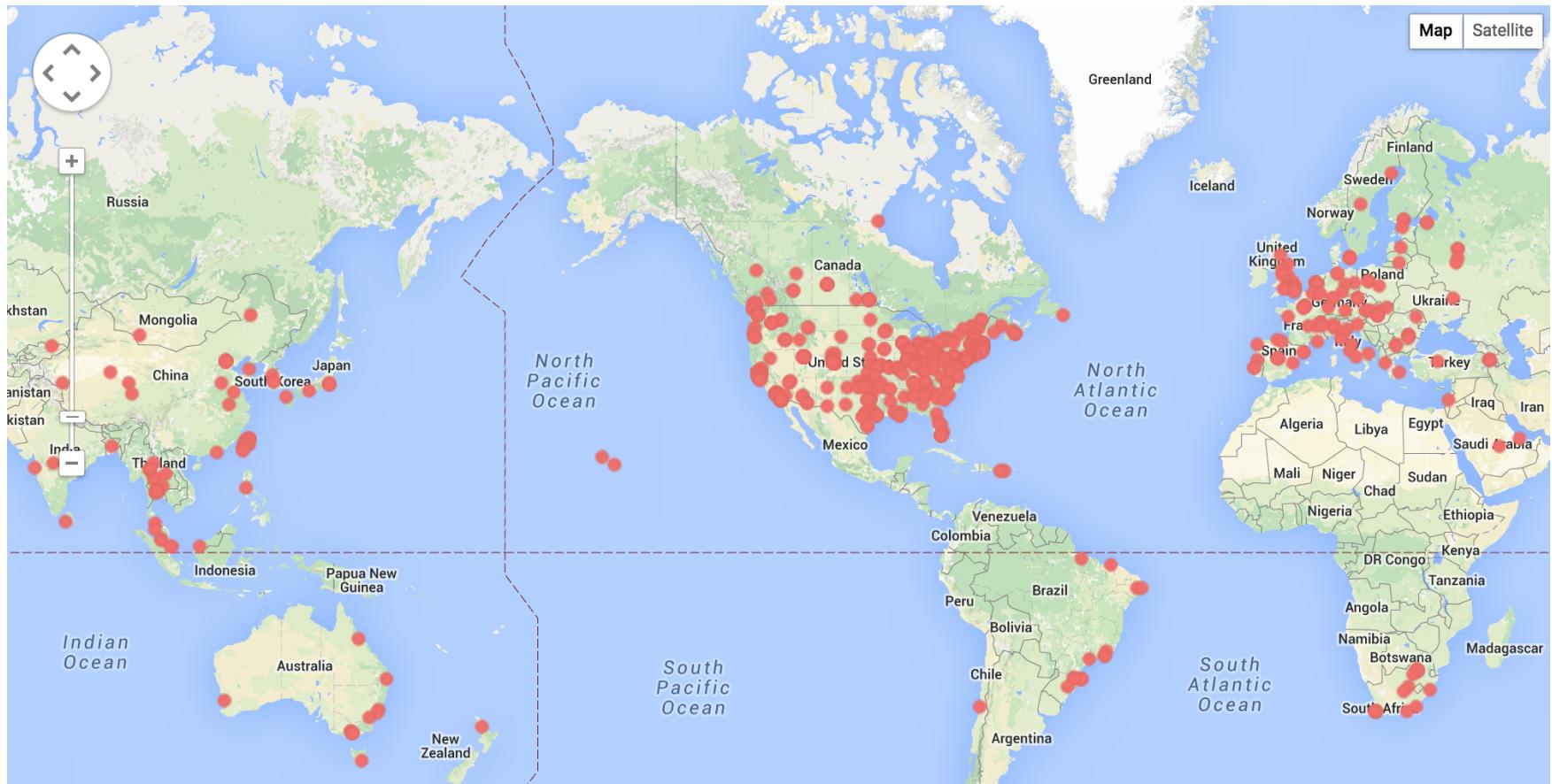
We have been trusting...so far

With Network Services Interface (NSI)

a community-consensus protocol for reserving bandwidth
multi-domain



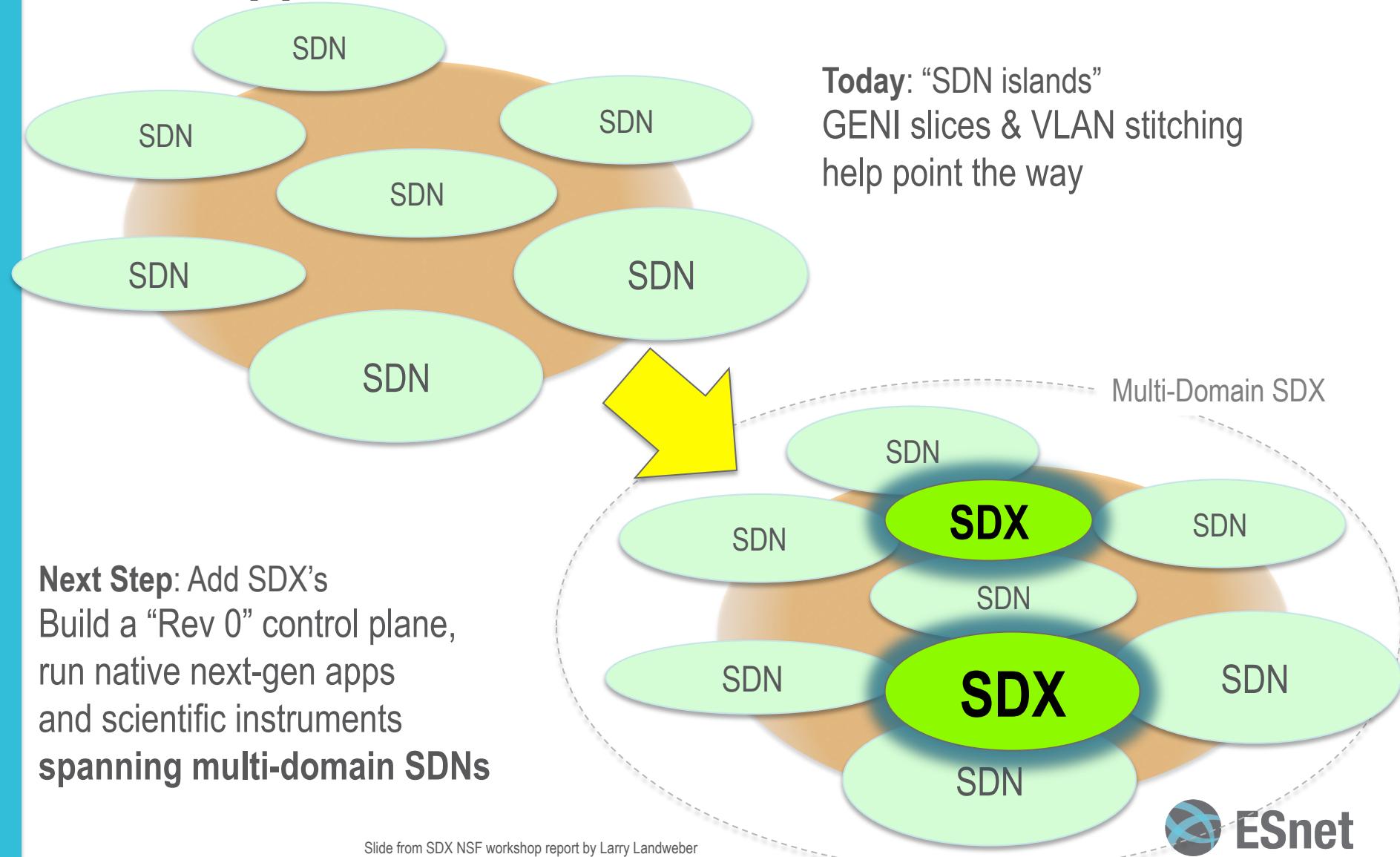
We can do multi-domain performance...



1300+ hosts running perfSONAR



New Opportunities: Multi-domain SDXs*



Slide from SDX NSF workshop report by Larry Landweber

Washington DC, June 2014

SDX equivalent to a ‘bazaar’



3 A's of the programmable network

- Automation
- Analytics
- Assurance