

# SCinet: 25 Years of Extreme Networking

Linda Winkler  
Argonne National Lab  
INDIS Workshop  
11.16.15





**Motivation**





Speak No Evil, See No Evil, Hear No Evil.

# Bringing Talent Together





**Teamwork!**

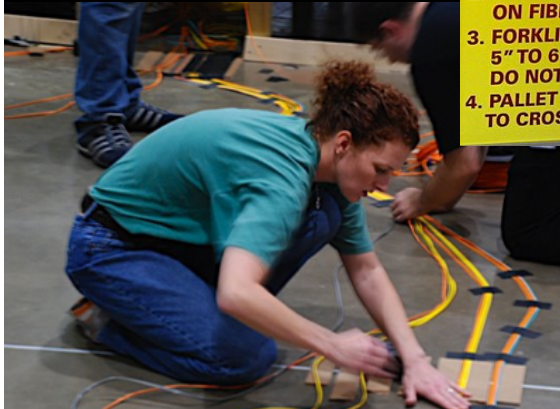


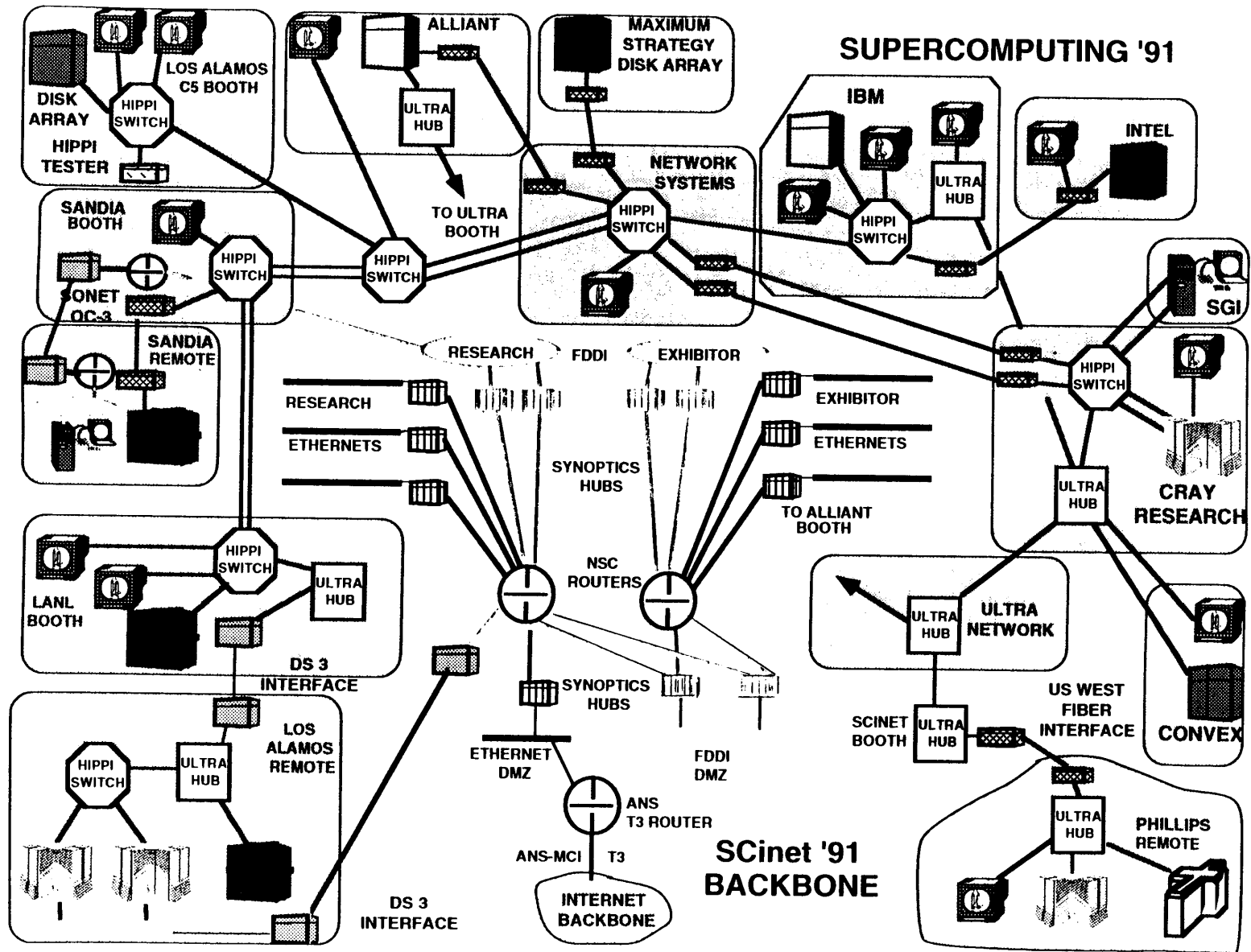


# got bandwidth?

**CAUTION!**  
**FIBER OPTIC CABLE**  
**EQUIPMENTS RESPONSIBLY**  
**FORKLIFTS/ PALLET JACKS/**  
**DOLLIES**

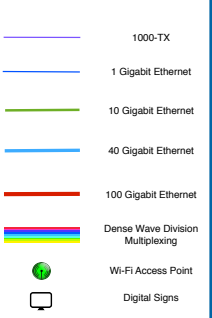
1. UTILIZE ALL FREIGHT FREE AISLES!
2. FORKLIFT CAN NOT BE STOPPED ON FIBER OPTIC LINES!
3. FORKLIFT BLADES MUST BE 5" TO 6" OFF FLOOR! DO NOT DRAG FORKLIFT BLADES!
4. PALLET JACKS CAN NOT BE USED TO CROSS OVER FIBER OPTIC LINES!



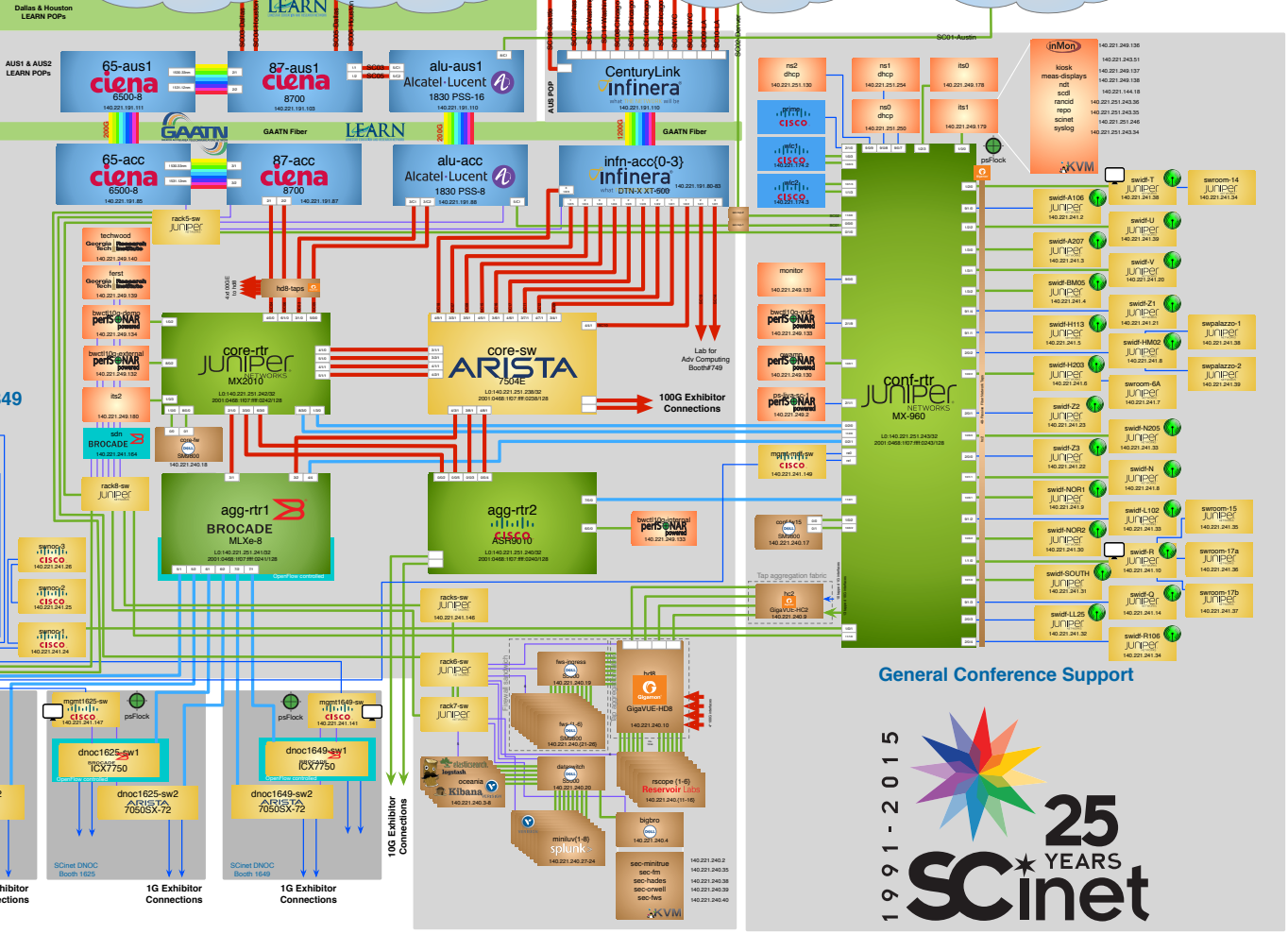
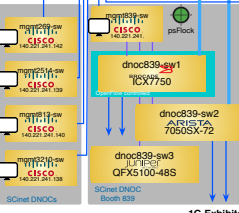
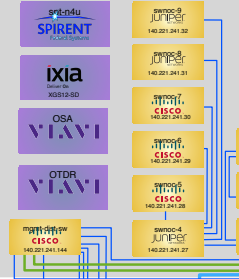




Network Architecture  
V4.2  
Linda Winkler  
Nov. 15-20, 2015

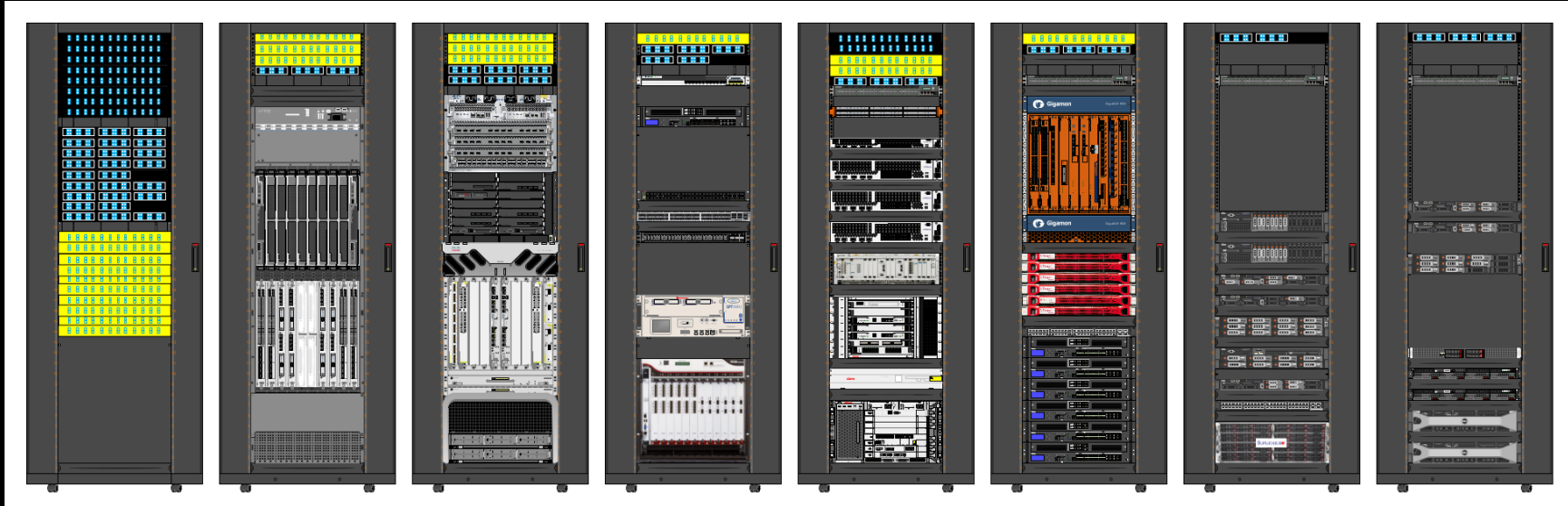


SCinet NOC Booth 849



General Conference Support





# SCinet NOC 2015





- Year long planning activity
- Vendor engagement
- Applications driven
- Build a complex infrastructure in a very short timeframe with imperfect/incomplete requirements



Process



- Victims of our own success**
- Clash between marketing and research**
- Explore emerging technology**
- Embrace research activities**
- Avoid disruptive forces**



- Implementation on an aggressive timeline**
- Recruit talent willing/able to contribute**

## **Challenges**



- Simplify operations
- Balance innovation/stability
- Attract quality paper submissions
- Make networking more visible in the Tech Program
- Solicit community input/engage the conversation
- Keep things relevant and rewarding
- Fundamental question-are we doing research on networks or building network for researchers?

## Looking Forward





SCinet...

The difficult we do immediately.

The impossible takes a little longer.

K. Oberman

