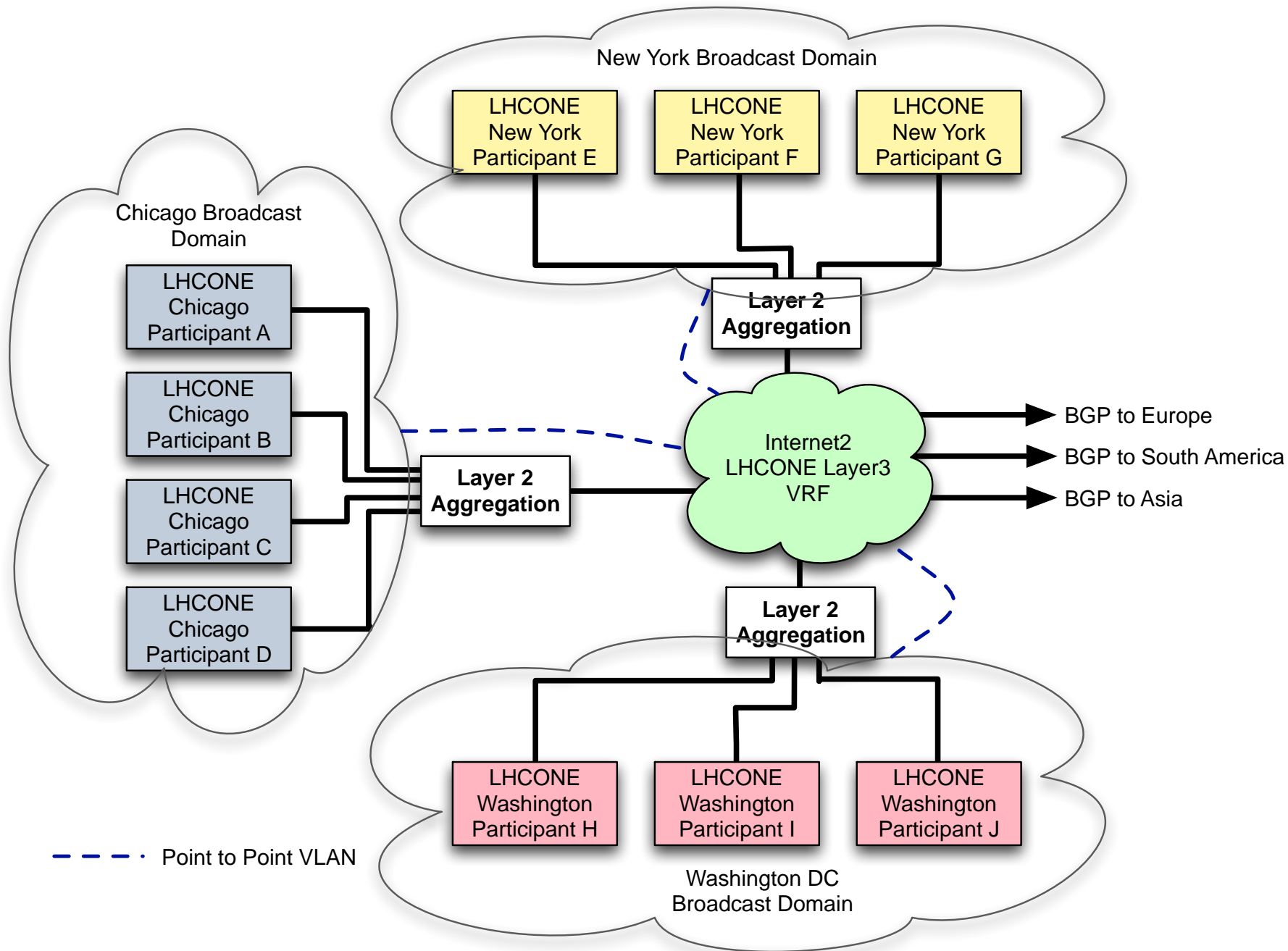




## **LHCONE VRF Update – An Internet2 Perspective**

**Eric Boyd, Internet2**



# LHCONE VRF Update

- MAN LAN – Unchanged
  - CANARIE
  - ESnet
  - GEANT
  - MIT
  - Harvard
- WIX – Unchanged
  - Esnet (?)
  - GEANT
- Starlight – Up and running
  - Indiana Gigapop (Pending)
  - AGLT2
  - MWT2
  - GEANT
  - Chicago (Not turned on yet)

# Bandwidth: Week of September 13th

- MAN LAN (Inbound / Outbound)
  - Max: 4.81 G / 3.39 G
  - Avg: 388 M / 260 M
- WIX (Inbound / Outbound)
  - Max: 4.55 G / 86G
  - Avg: 391M / 251M

# LHCONE Traffic Graphs

- 1. open the SNAPP page, <http://dc-snmp.wcc.grnoc.iu.edu/i2net/>
- 2. on the RHS navigation area, select the "search" tab
- 3. in the text box, add the following: \[LHCONE]
- 4. select all the interfaces displayed
- 5. In the graph area, select the link "show this view side by side"

# Proposed VRF Milestones (January 2012)

- Now: **COMPLETE**
  - Set up the VRFs (complete)
- Next week **COMPLETE**
  - Interconnect core VRFs at WIX and MAN LAN
  - Set up initial patron relationship (U Toronto, MIT, Harvard)
- End of Feb, 2012 **COMPLETE**
  - Complete technical implementation of VRF model
- May, 2012 **COMPLETE**
  - Complete operational implementation of VRF model.
- October, 2012 **IN PROGRESS**
  - Complete evaluation of alternatives to the VRF for a “shared VLAN” service
    - Trill, 802.1aq, OpenFlow
- December, 2012 **TBD**
  - Define the full set of final “shared VLAN” services that will be available to LHCONE
- June, 2013 **TBD**
  - Have the full set of final services in place.