

# Euro-IX Update

RIPE65 - Amsterdam

Bijal Sanghani

[bijal@euro-ix.net](mailto:bijal@euro-ix.net)

Twitter: @bijalsanghani

# Euro-IX Affiliates

- 65 affiliated IXPs :
  - 51 IXPs in Europe (30 Countries)
    - Operating over 70 Internet exchanges
  - 14 IXPs from the rest of the world
  - Latest member to join ALB-IX , JINX and MOZ-IX (twined with Netnod)
- 11 affiliated patrons:

• ADVA Optical Networking	Cisco
• Brocade	Force10 now DELL
• Extreme Networks	Juniper Networks
• Interxion	Telecity
• MRV	Transmode
• Telehouse	

# The past..

- First IXPs appeared around the start of the 1990s
- Initially from academic and research institutes
- Commercial IXPs emerged around 2000/2001
- Between 2001 to 2003 we saw the establishment of 42 IXPs

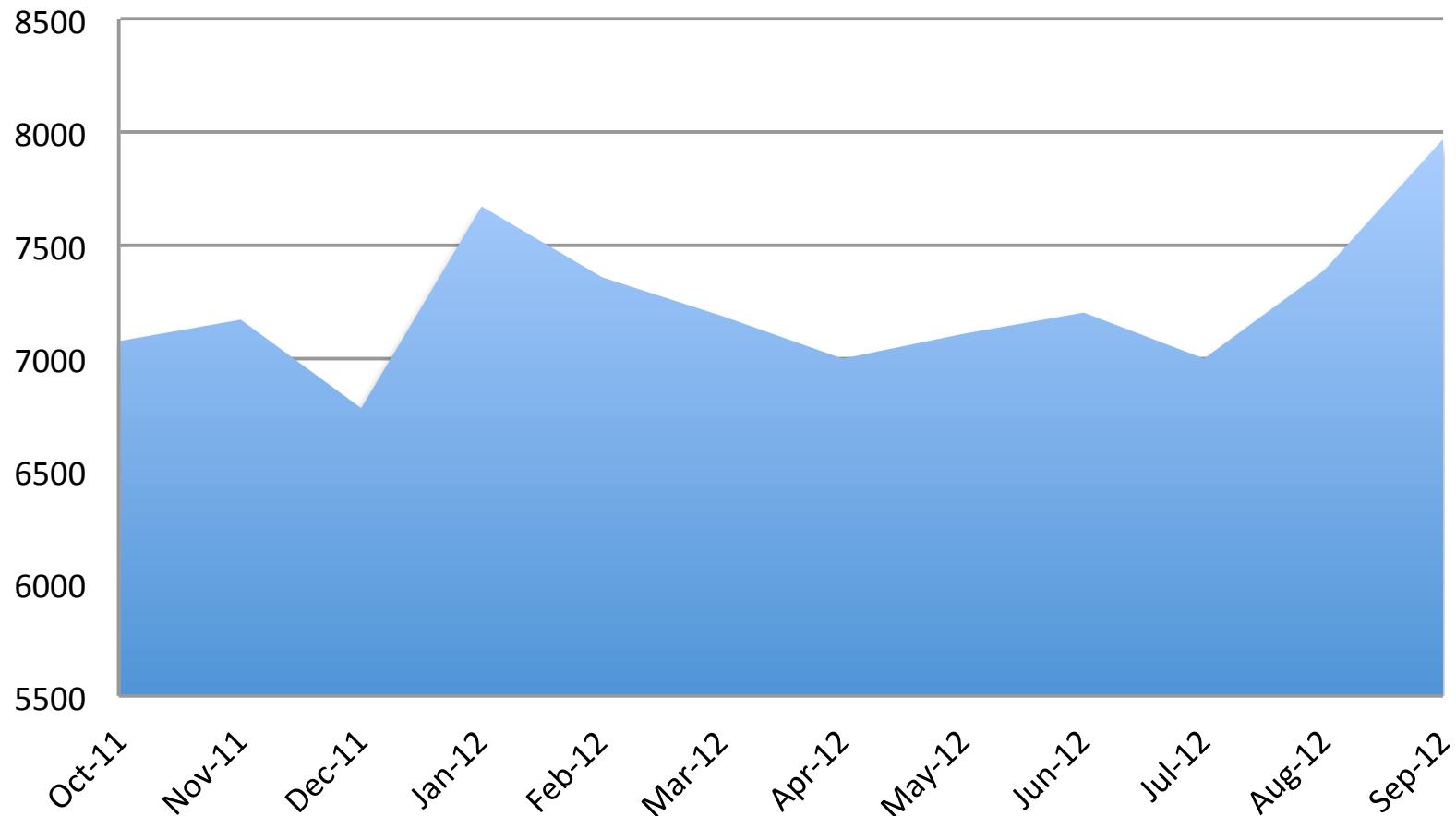


153 known IXPs in Europe  
42 (50) Countries  
118 Cities



# Euro-IX Membership Traffic (Gbps)

## 12 Months over the Public Peering LAN

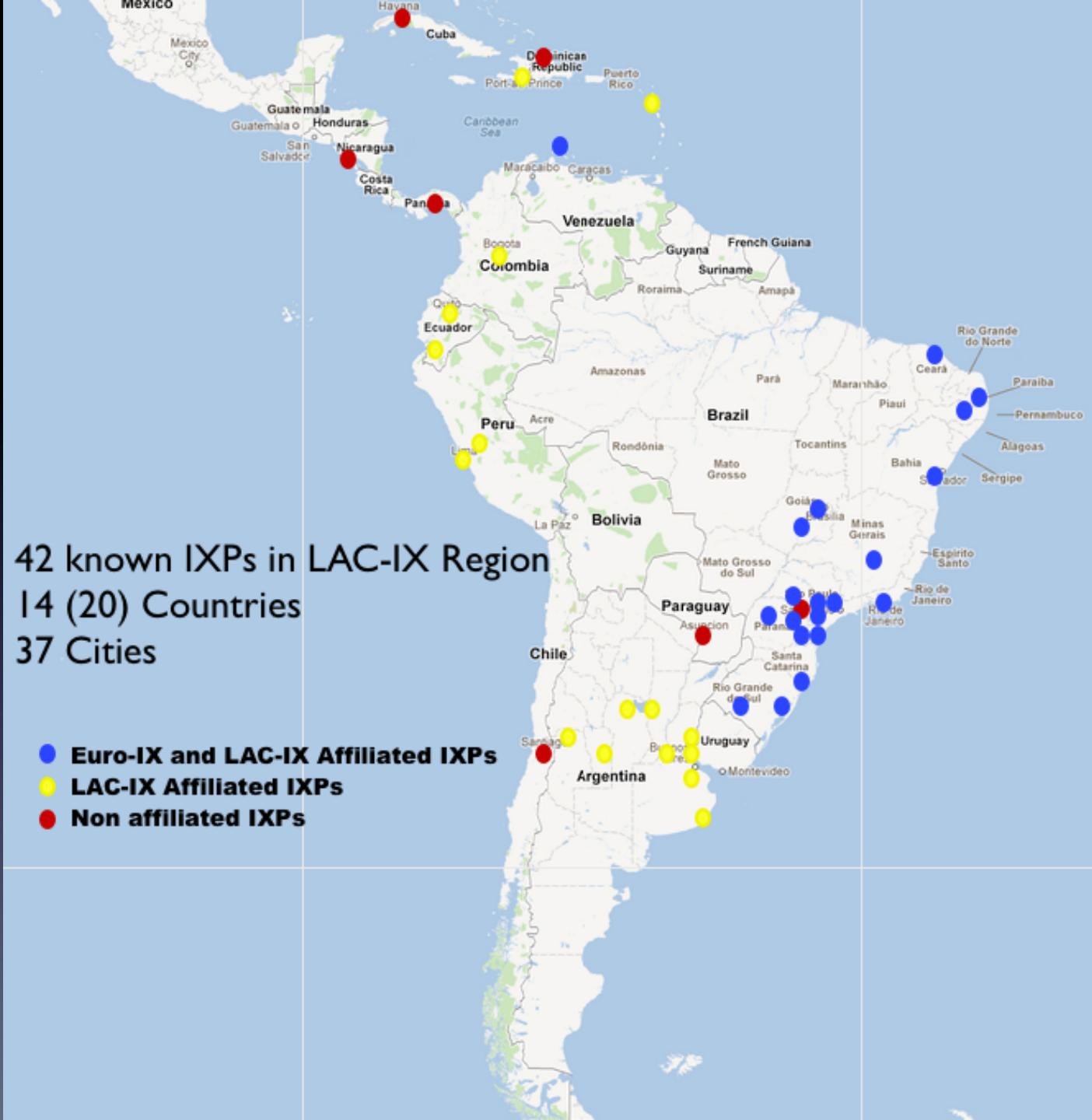


# Euro-IX in other Regions

- Africa Members – 4
  - Twin DE-CIX – TIX
  - Twin NETNOD – KIXP
  - Twin NETNOD – MOZ-IX
- Asia Members – 5
  - Twin DE-CIX - NPIX
- Latin America and Caribbean Members – 2
- USA Members – 4

# Federation of Internet Exchanges

- Since 2005 non EU IXPs were invited to Euro-IX
- Formation of LAC-IX , APIX and AF-IX
- MoU to form the IX-F
- Idea to have a Global IXP DB
- Automate Data Collection
- Set standards

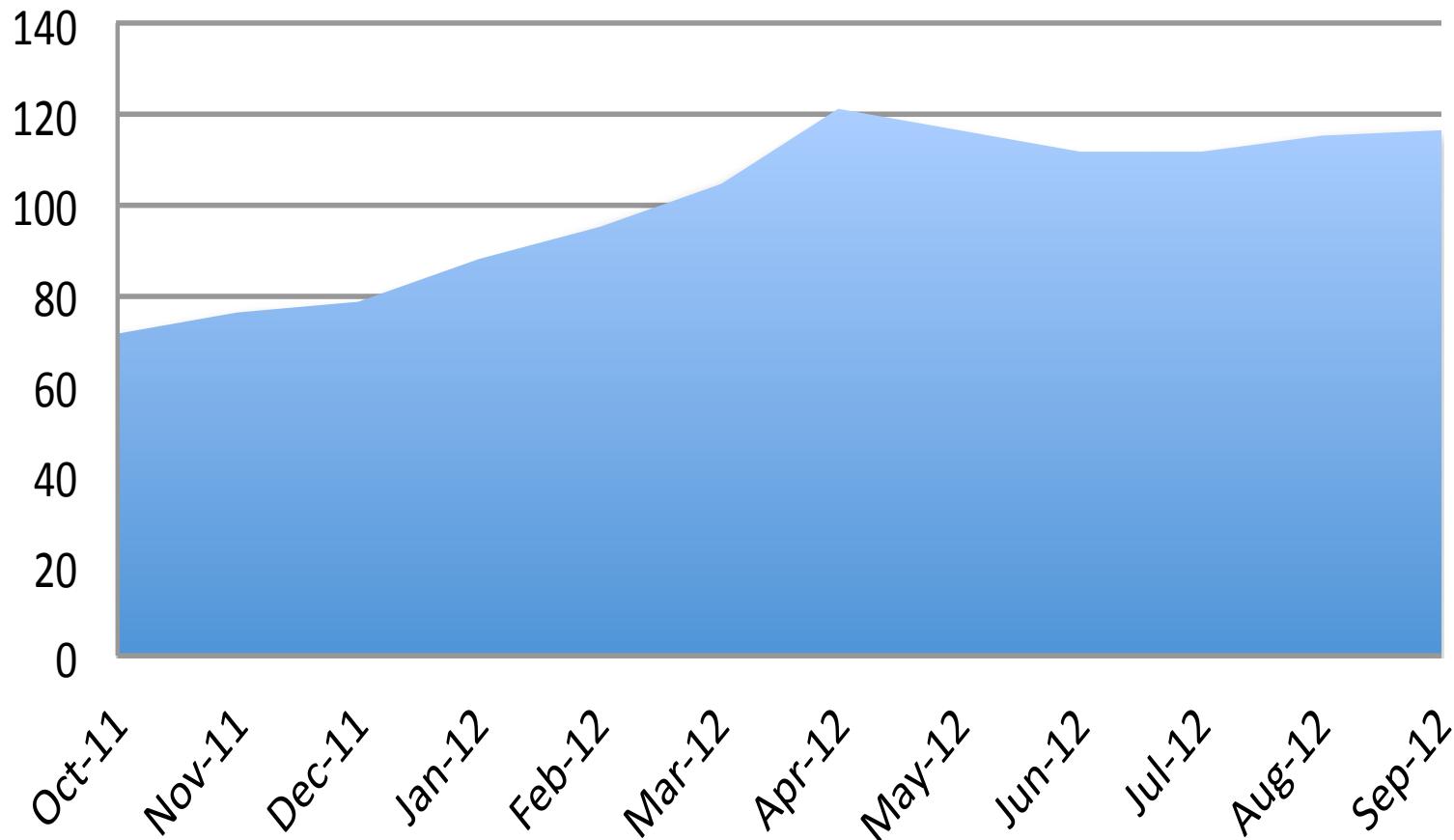


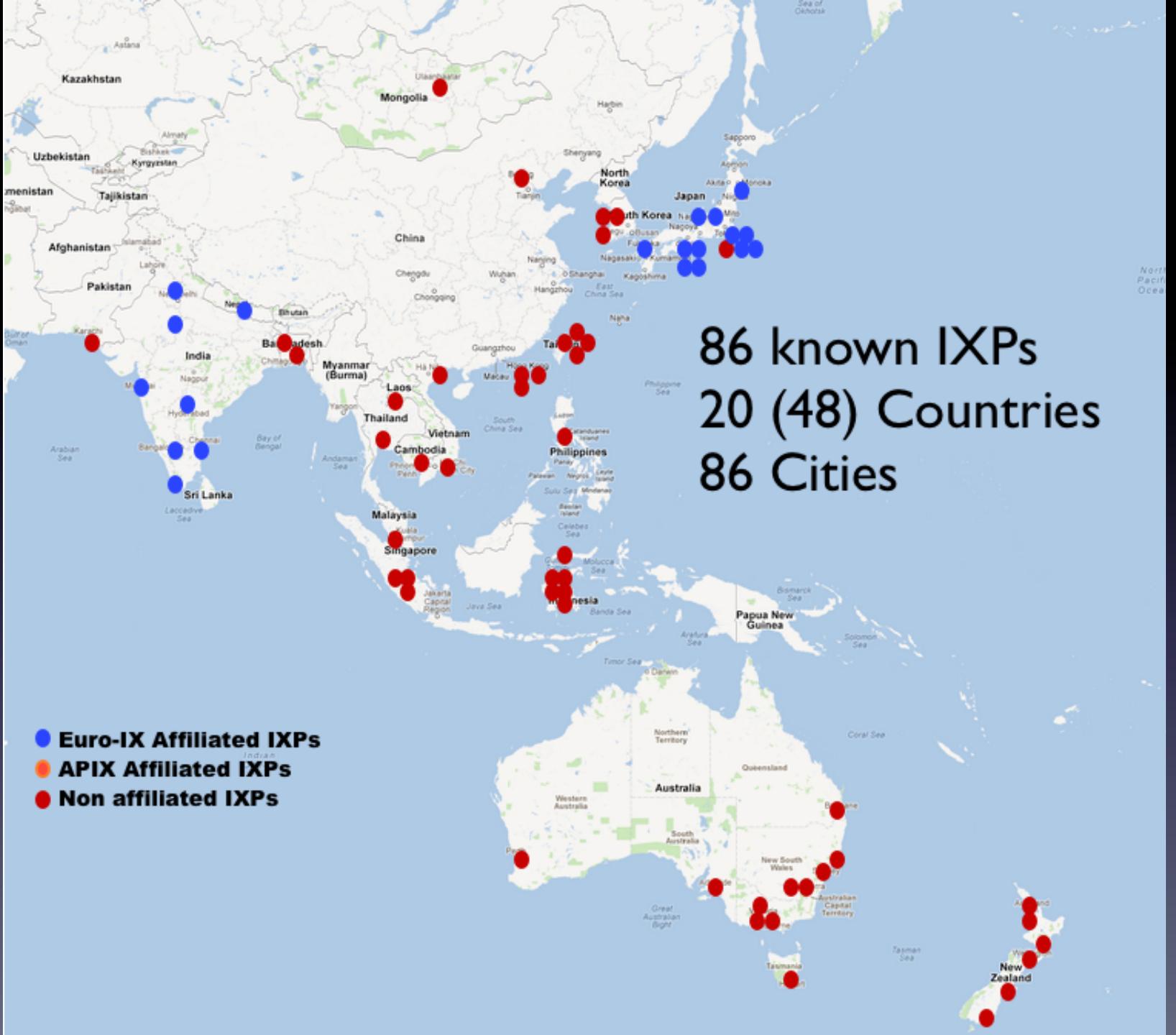
42 known IXPs in LAC-IX Region  
14 (20) Countries  
37 Cities

- Euro-IX and LAC-IX Affiliated IXPs
- LAC-IX Affiliated IXPs
- Non affiliated IXPs

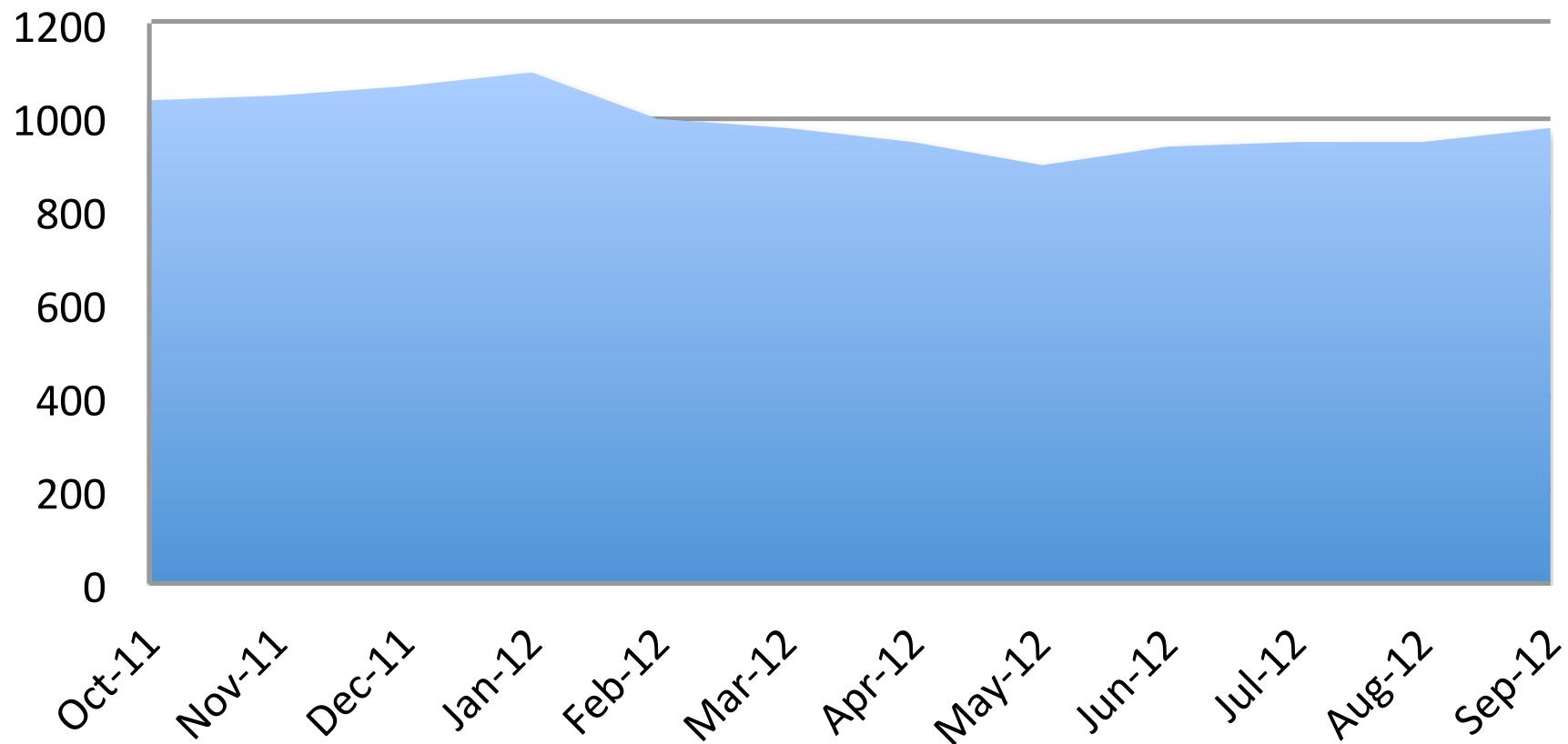
# Known LAC-IX region IXPs traffic in Gbps

## 47% increase in 12 months





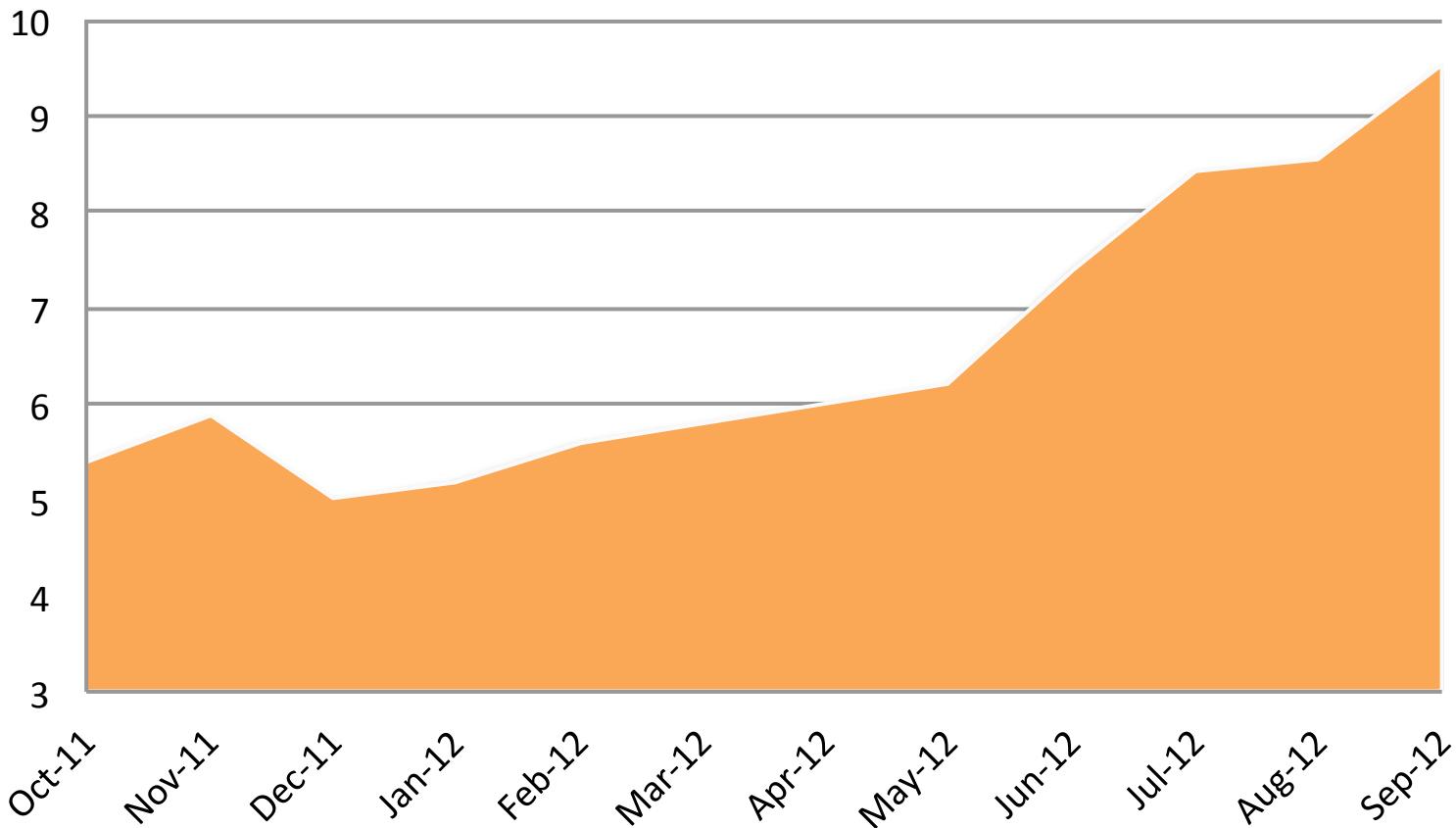
# Known Asia region IXPs traffic in Gbps



25 known IXPs  
18 (54) Countries  
24 Cities

- Euro-IX Affiliated IXPs
- Non Euro-IX Affiliated IXPs
- Status Unknown IXPs

## Known African IXP Traffic in Gbps

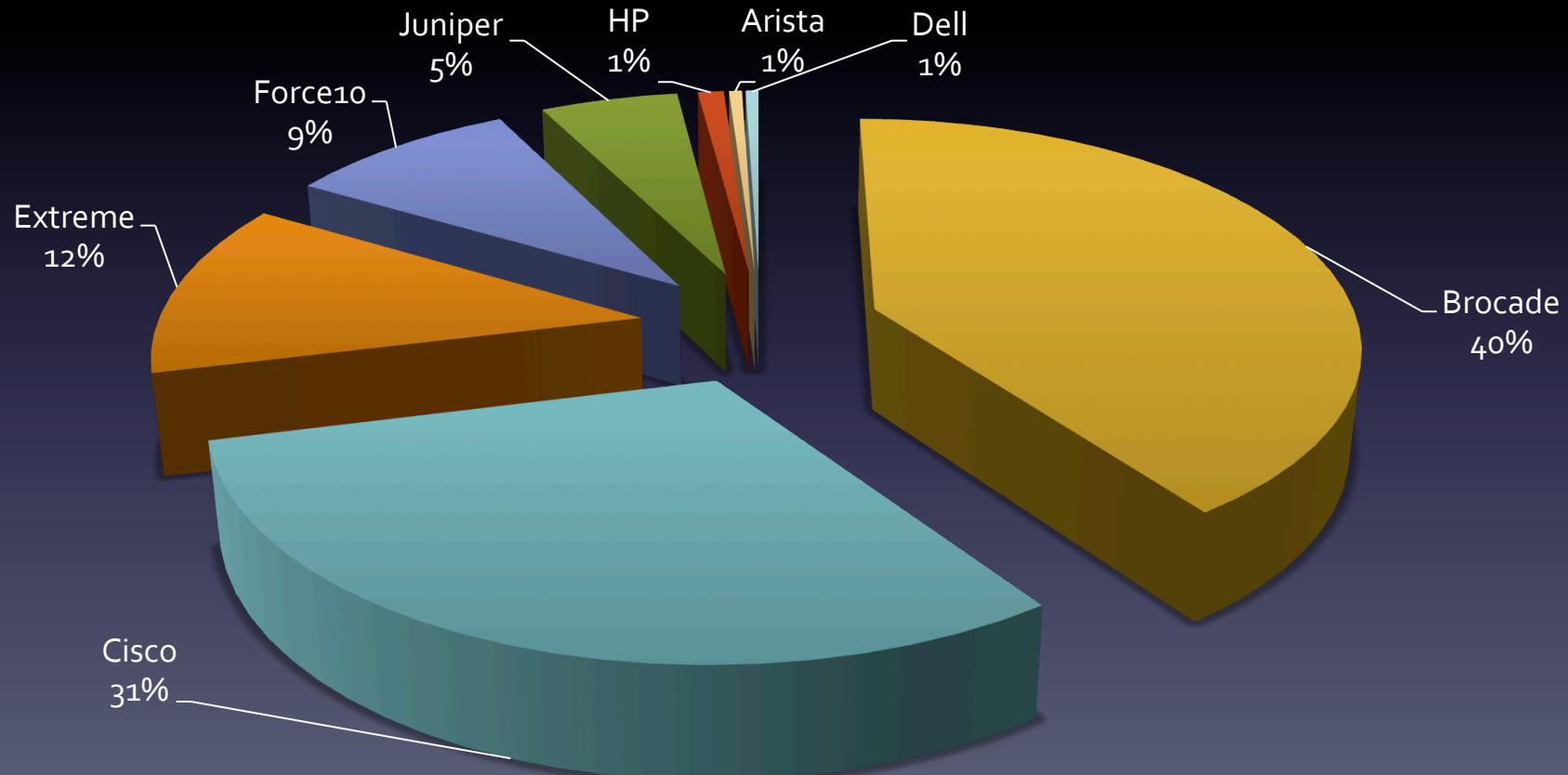


# What else does Euro-IX do

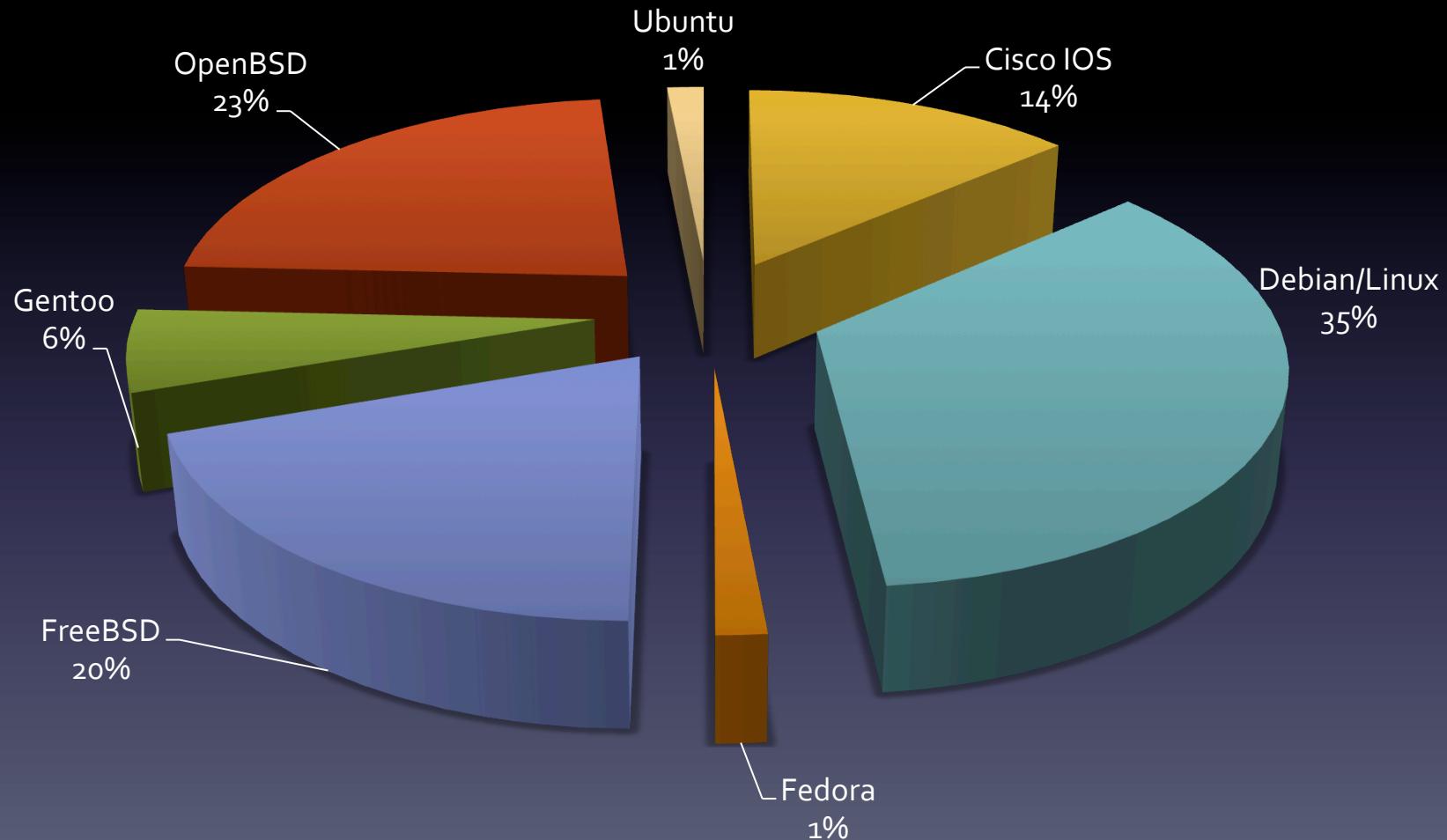
- 2 Forums a year
- Maintains the Website, database and tools
- Mailing Lists
- Working Groups and Task Forces
- Euro-IX Board
- Forum Program Committee
- Euro-IX BMC - Benchmarking Club
- Other project, e.g., Euro 2012 CL with RIPE NCC
- Annual European IXP Report

# Euro-IX Database

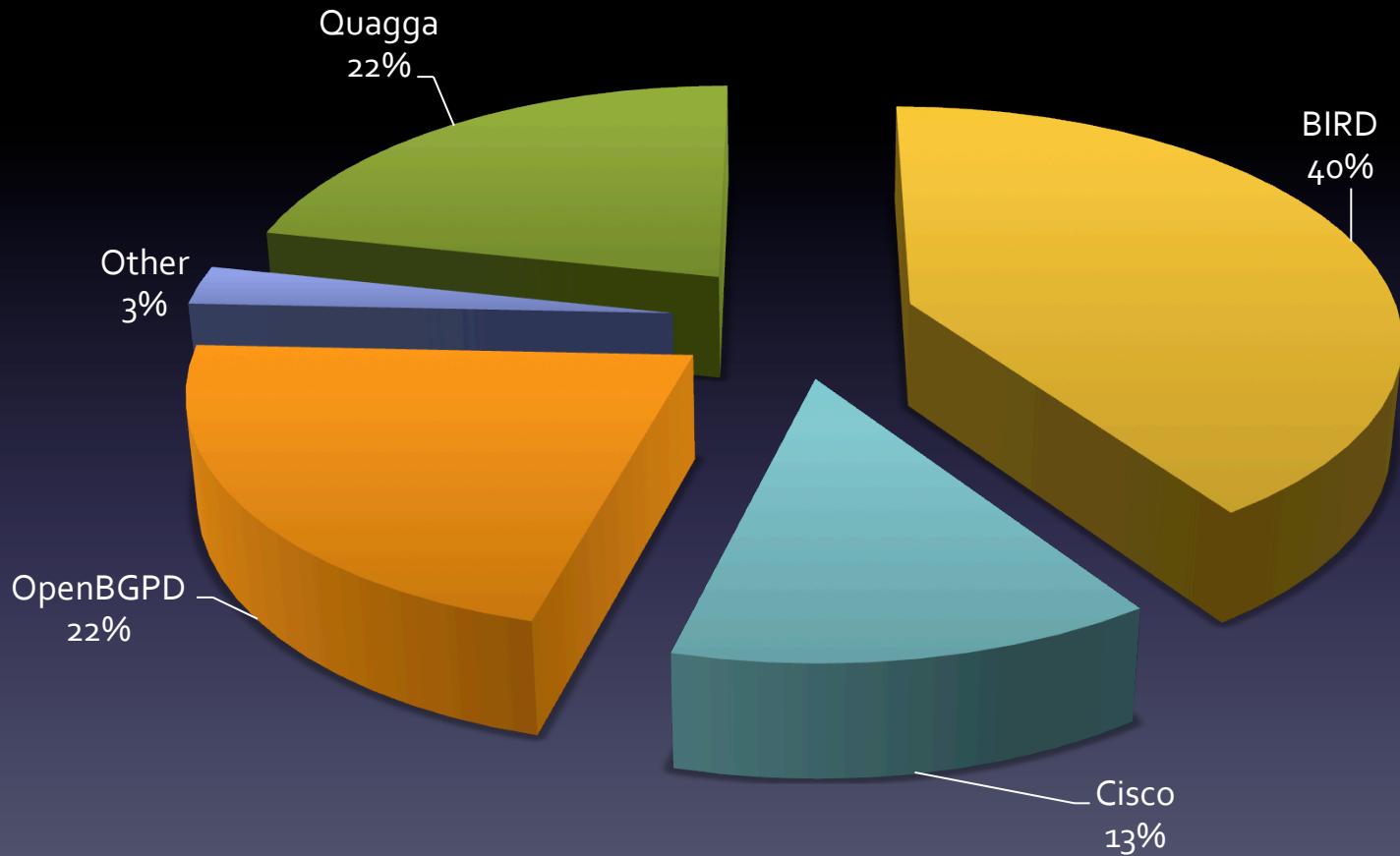
## Market share of switch/router vendors among European IXPs [%]



# Route server operating systems in use [%]



# Route server daemons in Use [%]



# If you want to know more...

- Take a look at the Euro-IX website
  - Details of all Euro-IX affiliated IXPs
  - Documentation
  - Tools
- Twitter @euroix

# THANK YOU

[www.euro-ix.net](http://www.euro-ix.net)

[bijal@euro-ix.net](mailto:bijal@euro-ix.net)