

RIPE 63 - EIX WG

VIENNA

EURO-IX UPDATE

BY BIJAL SANGHANI

EURO-IX

RIPE 63 - VIENNA, AUSTRIA- NOVEMBER 2011

News (1): Euro-IX

- Bye Bye Serge
- 60 affiliated IXPs:
 - ▶ Europe: 46 members
(operating some 70 IXPs in 27 different countries)
 - ▶ Rest of the world: 14 IXPs
 - ▶ 11 industry related patrons

News (2): Joining Euro-IX

- ▶ All IXPs are invited to join Euro-IX
- ▶ Euro-IX has now introduced a Remote Associate Membership category for European IXPs
- ▶ Still receive access to restricted area of website, mailing lists, databases, listing on our website, inclusion in ASN matrix etc.
- ▶ Assumption is that they will not participate in Euro-IX Forums
- ▶ Annual membership fee is considerably less

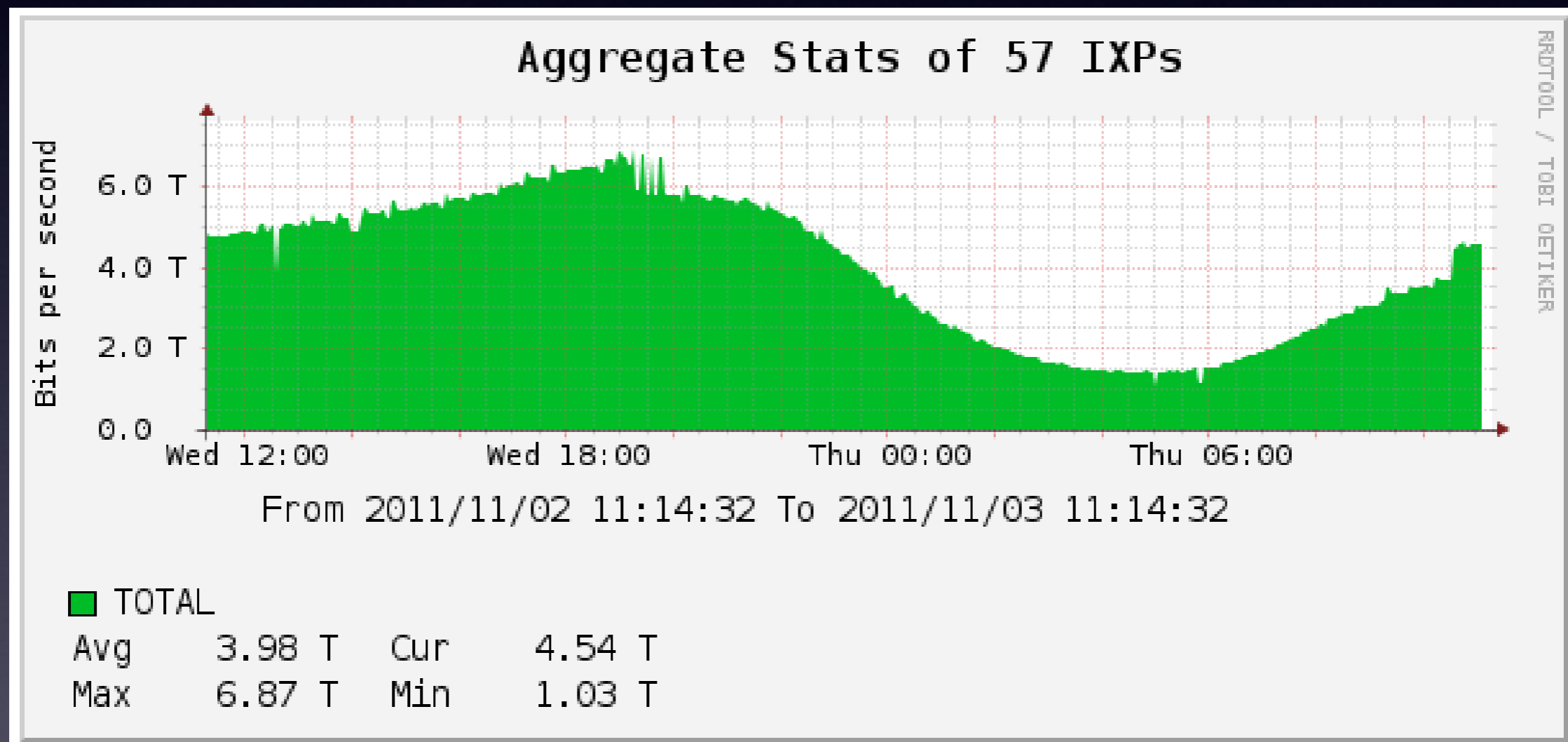
News (3): Euro-IX Forums

- Last Euro-IX Forum was in Lyon
 - ▶ Hosted by Lyonix
 - ▶ 42 IXPs were represented

- 20th Euro-IX Forum will be in Amsterdam
 - ▶ Hosted by AMS-IX
 - ▶ Date: 2nd and 3rd of April 2012
 - ▶ Contact Bijal if you are an IXP and wish to attend

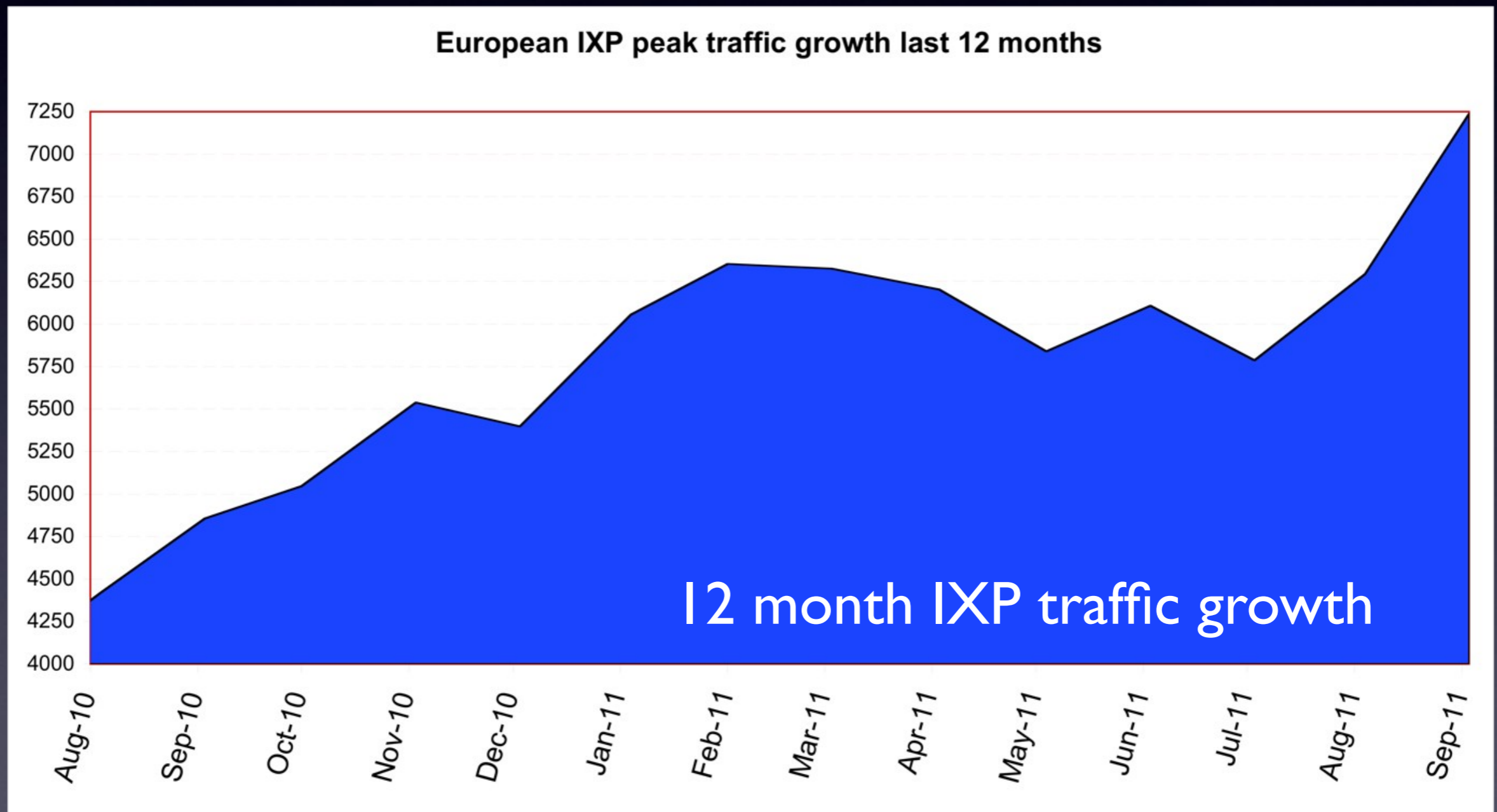
Euro-IX IXP traffic

- Combined Euro-IX Member IXP traffic
- Peak/trough variance approximately 81%



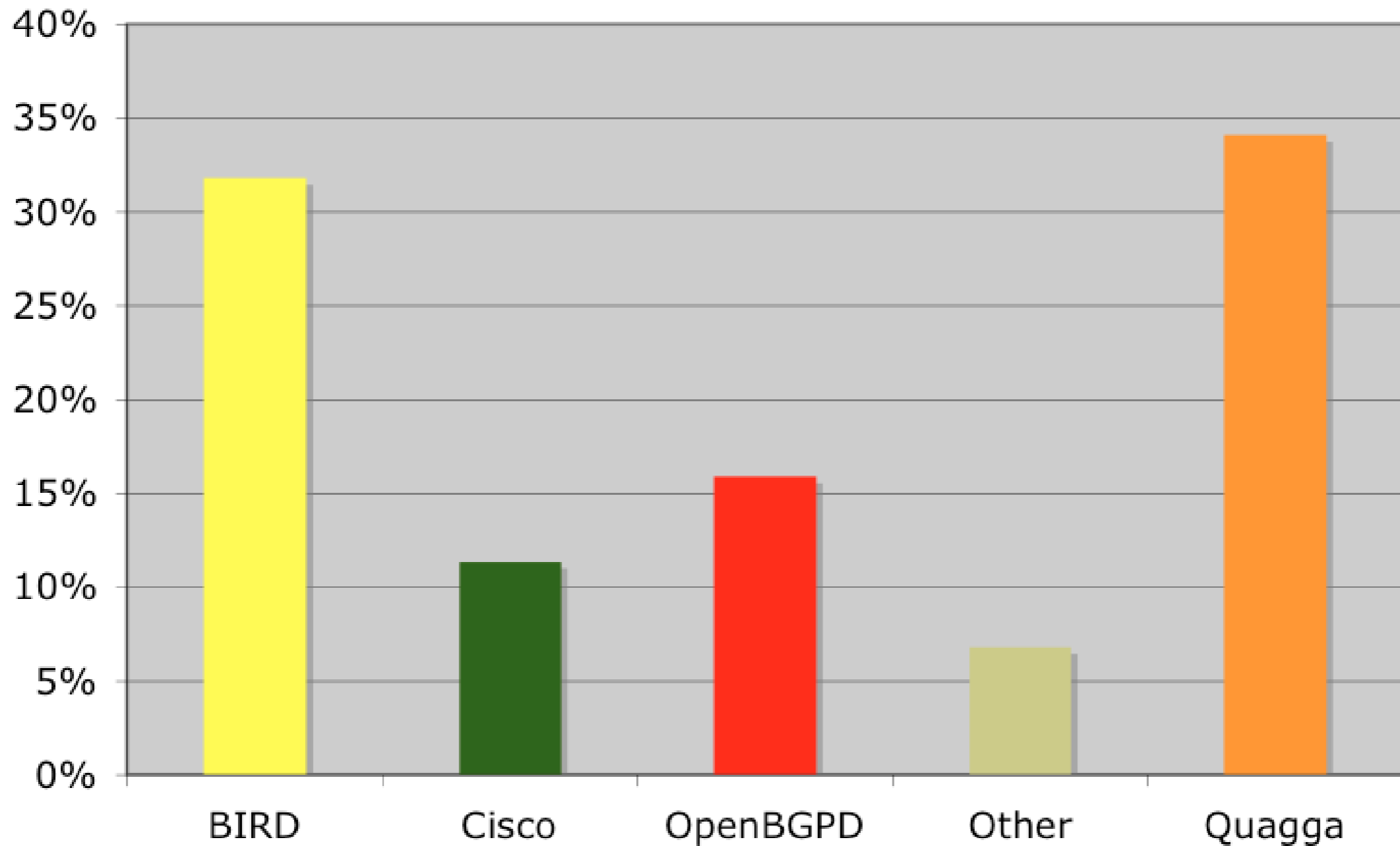
European IXP traffic

- Combined European IXP peak traffic has risen from: 4.857 Tbps end Sep '10 to 7.237 Tbps end Oct '11
49% increase in the past 12 months



Route servers at Euro-IX IXPs

Percentage of RS daemons in use at Euro-IX IXPs



Euro-IX ASN tools

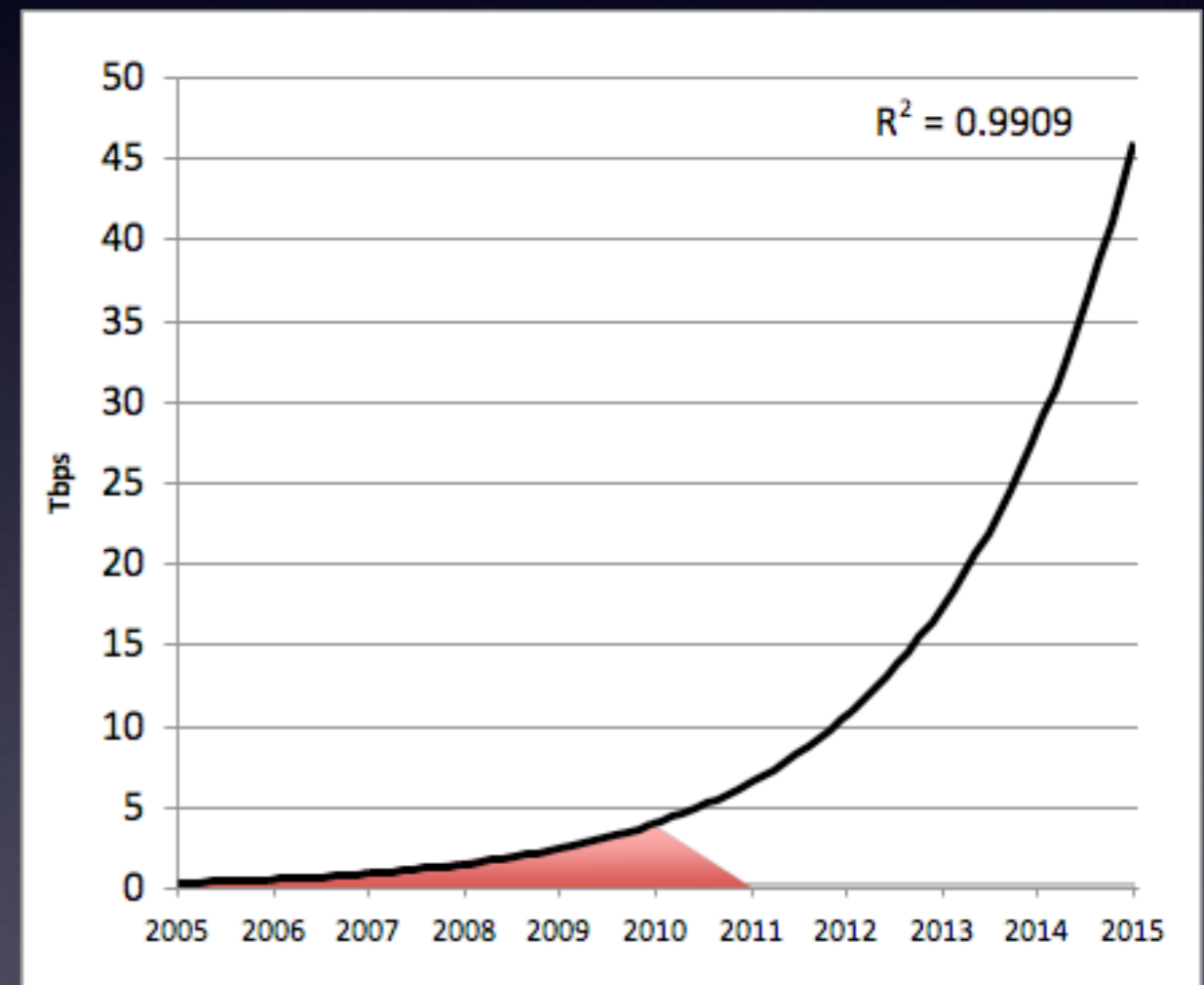
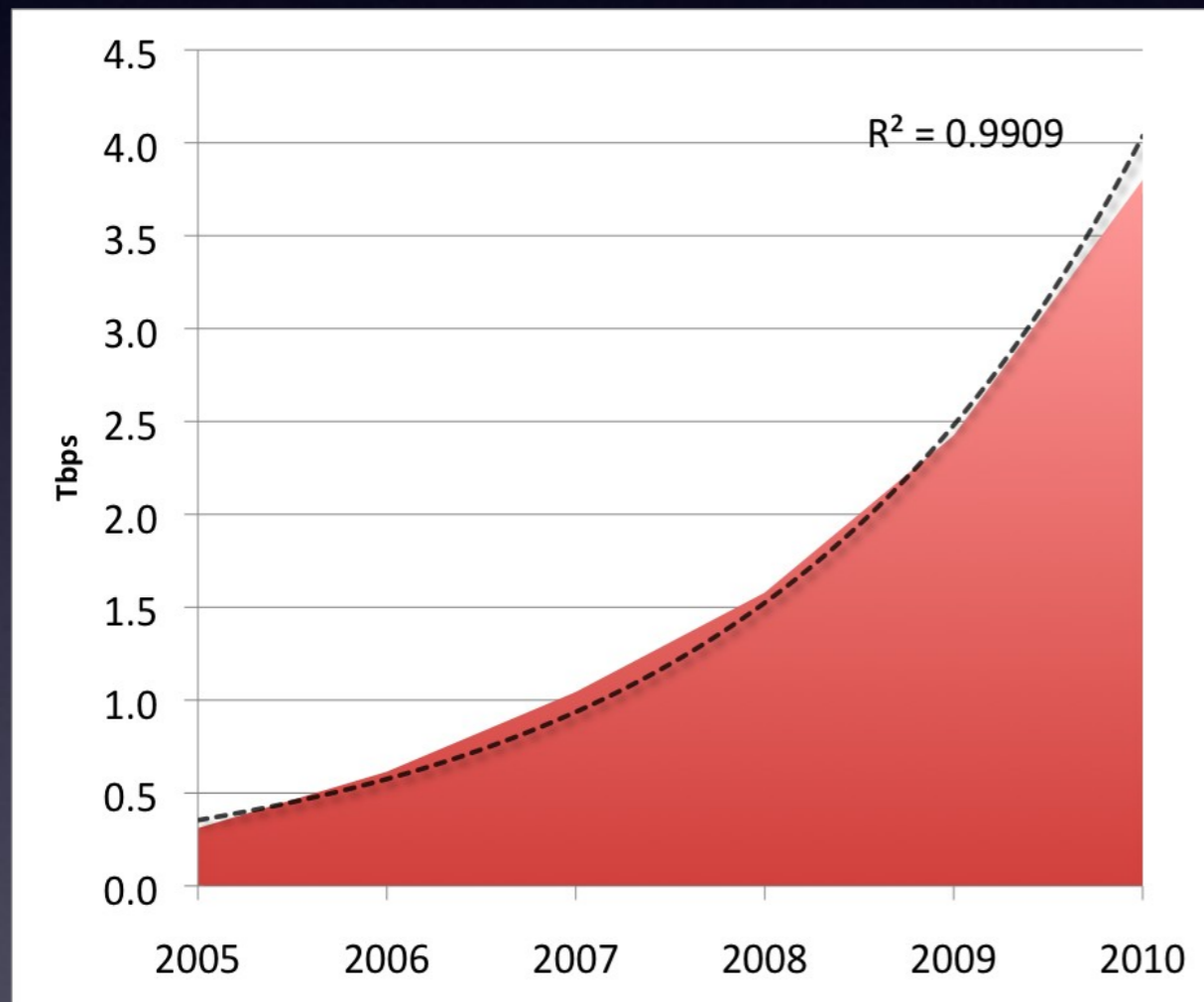
The screenshot shows the Euro-IX website interface. At the top, the Euro-IX logo and the text 'European Internet Exchange Association' are visible. Navigation links include 'Contact', 'Site map', 'Search', and 'IXP directory'. A user profile for 'Serge Radovcic' is shown in the top right, with a 'Sign out' link. The main content area features a 'Welcome to Euro-IX!' message, a 'Latest NEWS' section, and sections for 'For IXPs' and 'For ISPs'. A 'Tools' sidebar on the right contains several links: 'ASN Filter (New!)', 'Peering Matrix', 'Service Comparison Matrix', 'List of European IXPs', 'Euro-IX ASN database', 'Newest ASN DB entries (New!)', and 'Most common ASNs (New!)'. A red box highlights this 'Tools' sidebar, and a red line connects it to a larger red box on the right containing the text 'ASN tools'. At the bottom of the page, there is a video player for 'The Internet Revealed: A film about IXPs' with a play button and a progress bar.

Euro-IX ASN tools

- The ASN DB lists IXP participants from about 285 IXPs in five regions (10,300 DB entries)
- ASN DB search interface
- IXP-ASN filter tool (and ASN matrix)
- Most common ASNs (those at 10 or more IXPs)
- Latest entries in ASN DB (available as a RSS feed)

5 year peak European IXP traffic projection

- Increase in IXP peak traffic from the end of August 2005 to the end of August 2010 was 12 fold
- Exponential trend line suggests 47 Tbps+ in 2015



The peering scene in 2015?

- Number of IXPs: 145 (130)
- 8,000 (6,204) participants at these IXPs
- 4,400 (3,329) unique ASNs
- Aggregated European IXP traffic: +47 Tbps (6.3 Tbps)
- Average IXP peak traffic: 360 Gbps (48 Gbps)
- Average number of IXP participants: 55 (46)
- Average participant traffic: 6.5 Gbps (1 Gbps)

**EUROPEAN INTERNET EXCHANGE
ASSOCIATION**

EURO-IX

[HTTP://WWW.EURO-IX.NET](http://www.euro-ix.net)

BIJAL@EURO-IX.NET

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