



TOP-IX

www.top-ix.org



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Who we are and what we do

TOP-IX: TORino Piemonte Internet eXchange
No-profit consortium founded in 2002
Geographically Distributed IXP for North West Italy



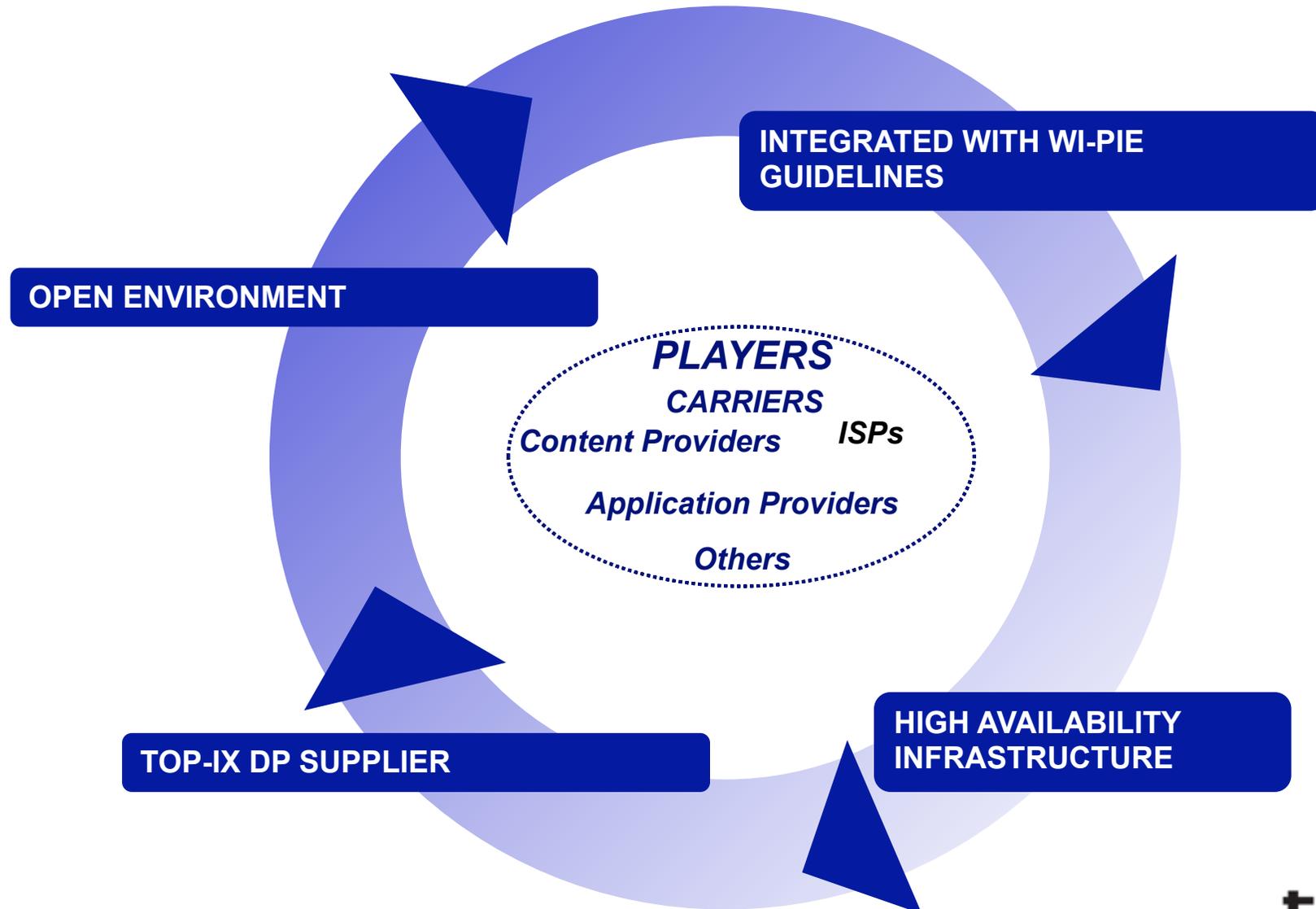
**Internet
(IX)**

Develop and manage the network infrastructure to provide IXP services to ISPs, Carriers, Content Providers and anyone that has an ASN.

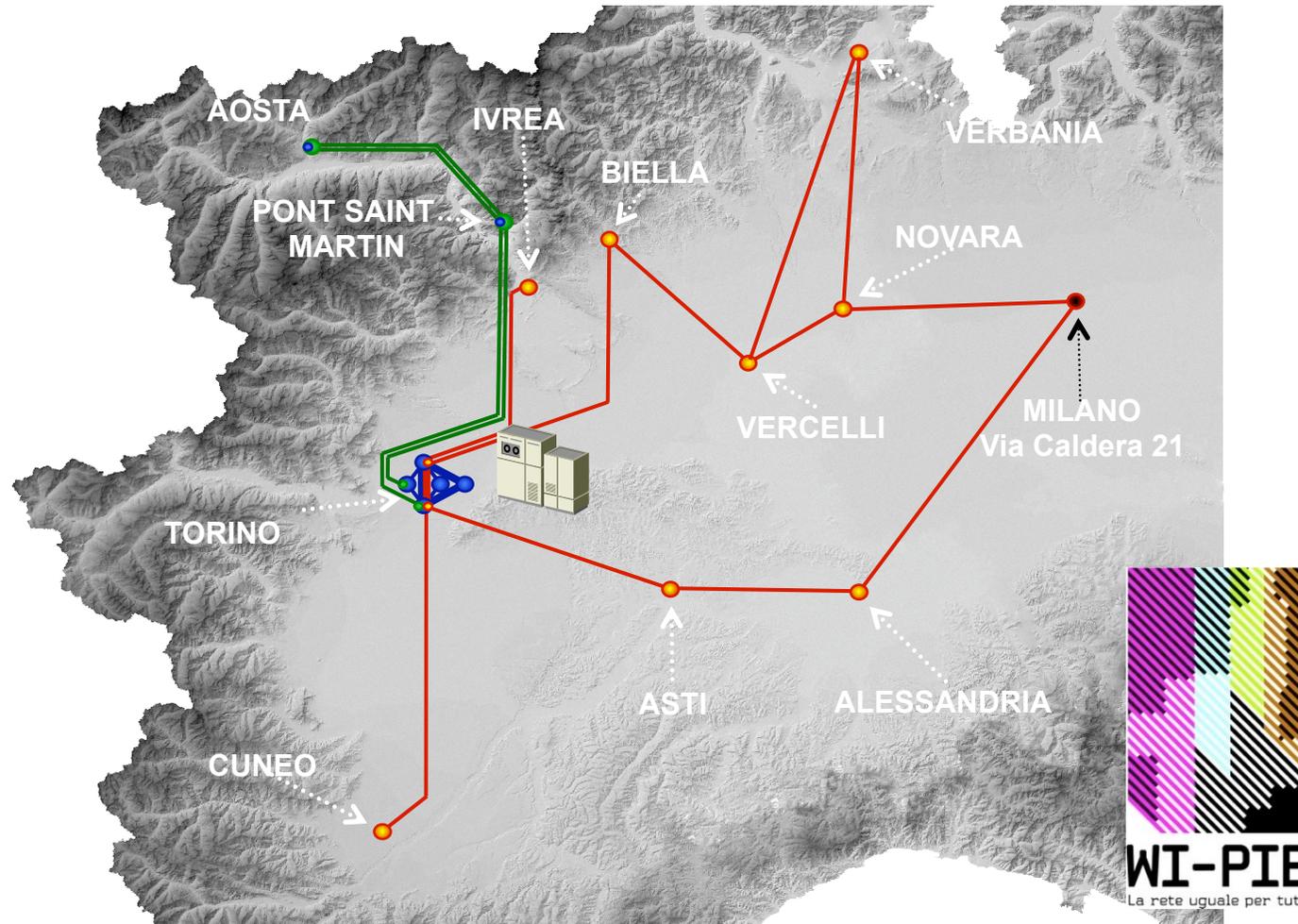
**Development Program
(DP)**

Make available an open innovation environment to foster new business creation by providing infrastructural support to Internet ventures

IX model



IX - Backbone

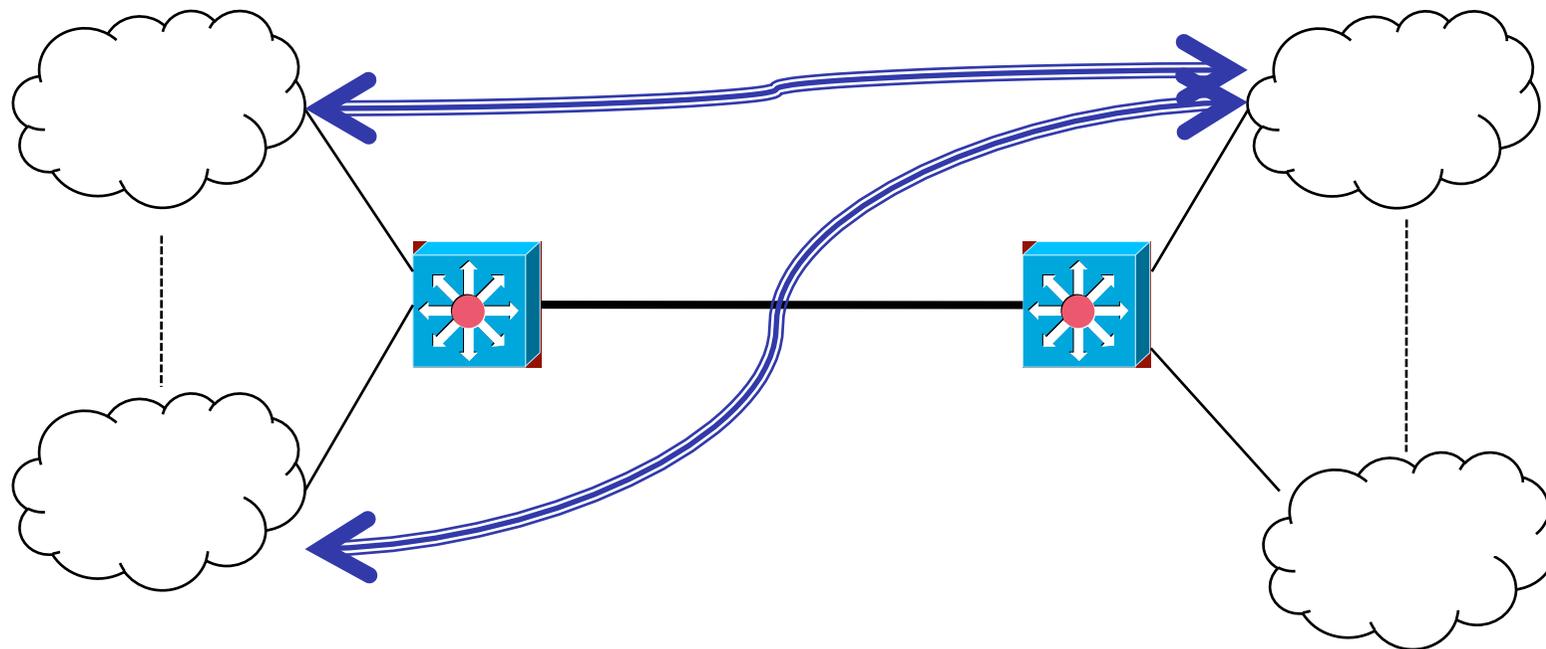


<http://www.top-ix.org/nodemap>

Access & Housing

- **ACCESS: 10 Mbps to 10 Gbps Ethernet**
 - Your own infrastructure (Fiber)
 - Leased Connectivity from carriers
 - National: Telecom Italia, Fastweb, Wind,.....
 - International: Level3, Interoute, Colt
 - Wireless (Hyperlan, WI-MAX): PoPs prepared for antennas and cabling available
- **HOUSING** available on each PoP

TOP-IX & Lyonix interconnection

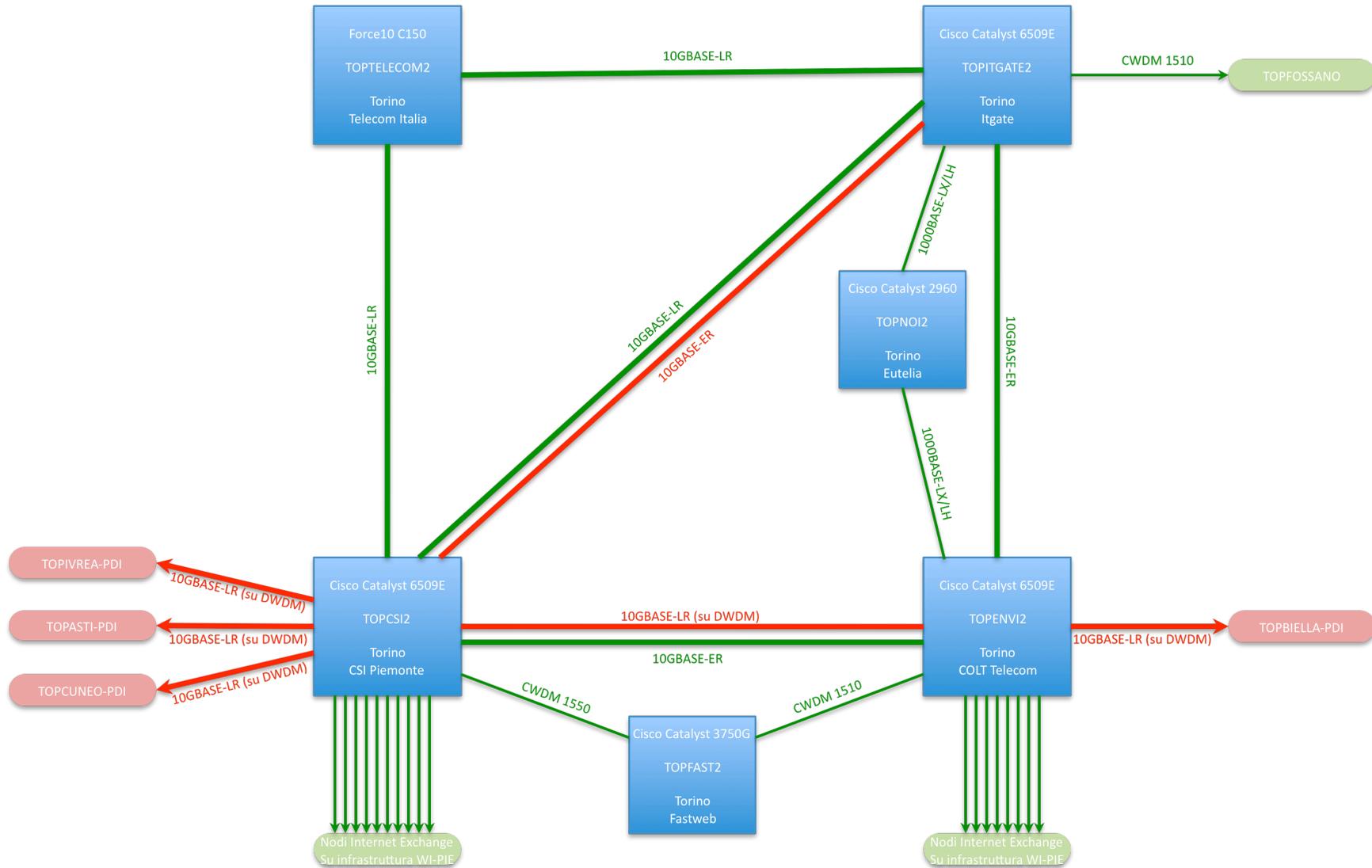


- One hop connection
- Each IXP maintains its independence
- Peering available within members on both sides

IX –Key Datas

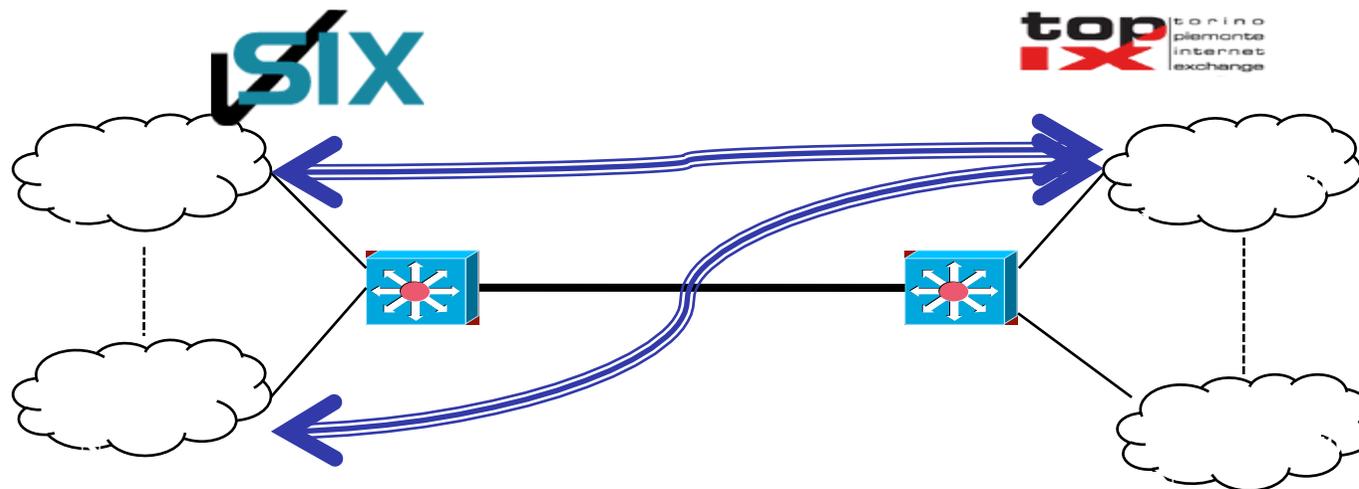
- Up to 15 Gbps peak traffic (IPv6 < 1%)
- 40 ASN connected (+7 from Lyonix)
- Mixed Platform (Cisco & Force10)
 - CORE: Cisco 6509 & Force10 C150
 - EDGE: Cisco 3750
- Multicast and IPv6 enabled
- F-Root and J-Root Servers

Core Architecture



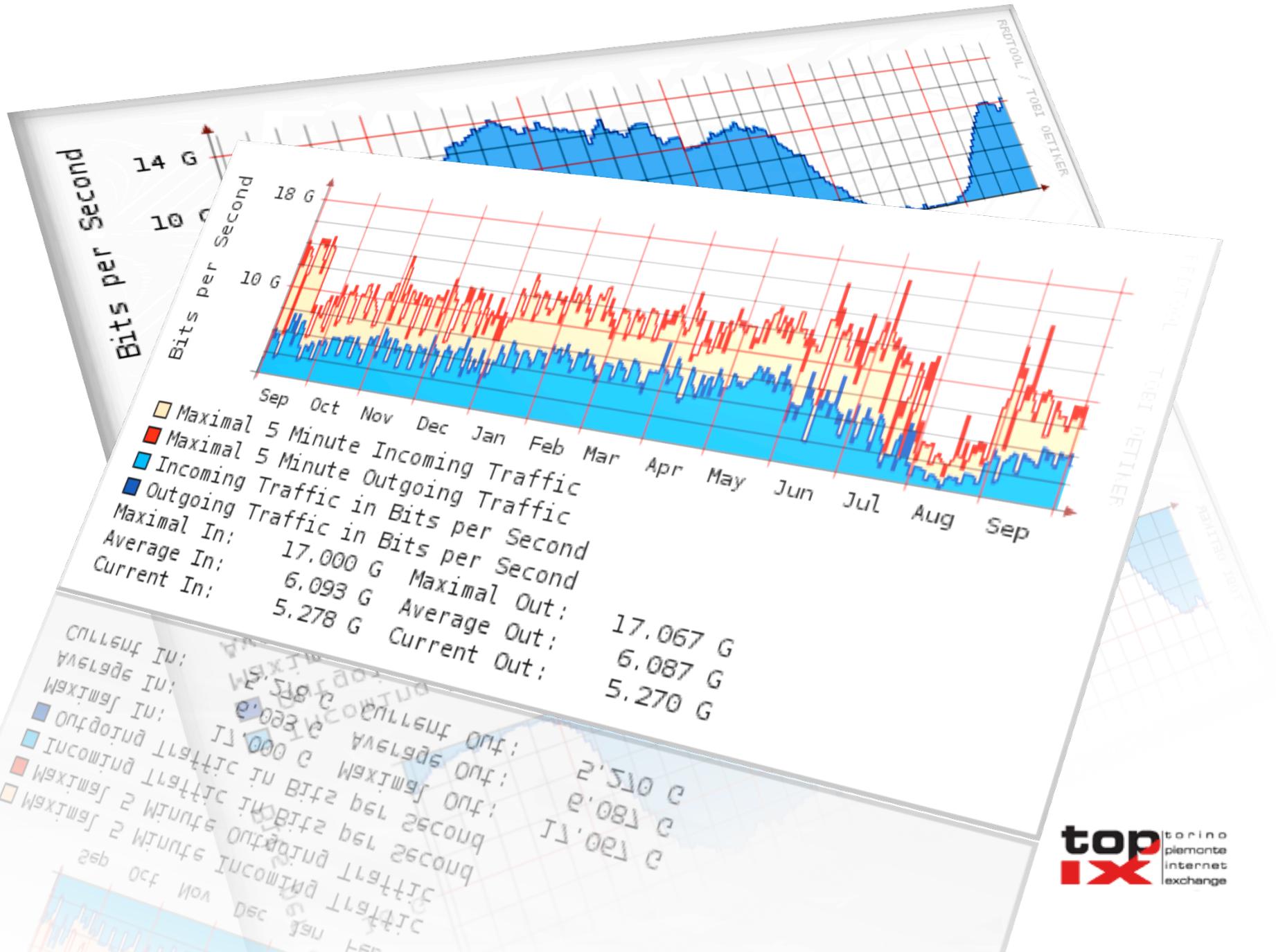
What's NEW

- QUAGGA Route Server NOW working
- NOC DB Tool for L2/3 network configuration & management L2/3
- TOP-IX & VS-IX (Padua) interconnection

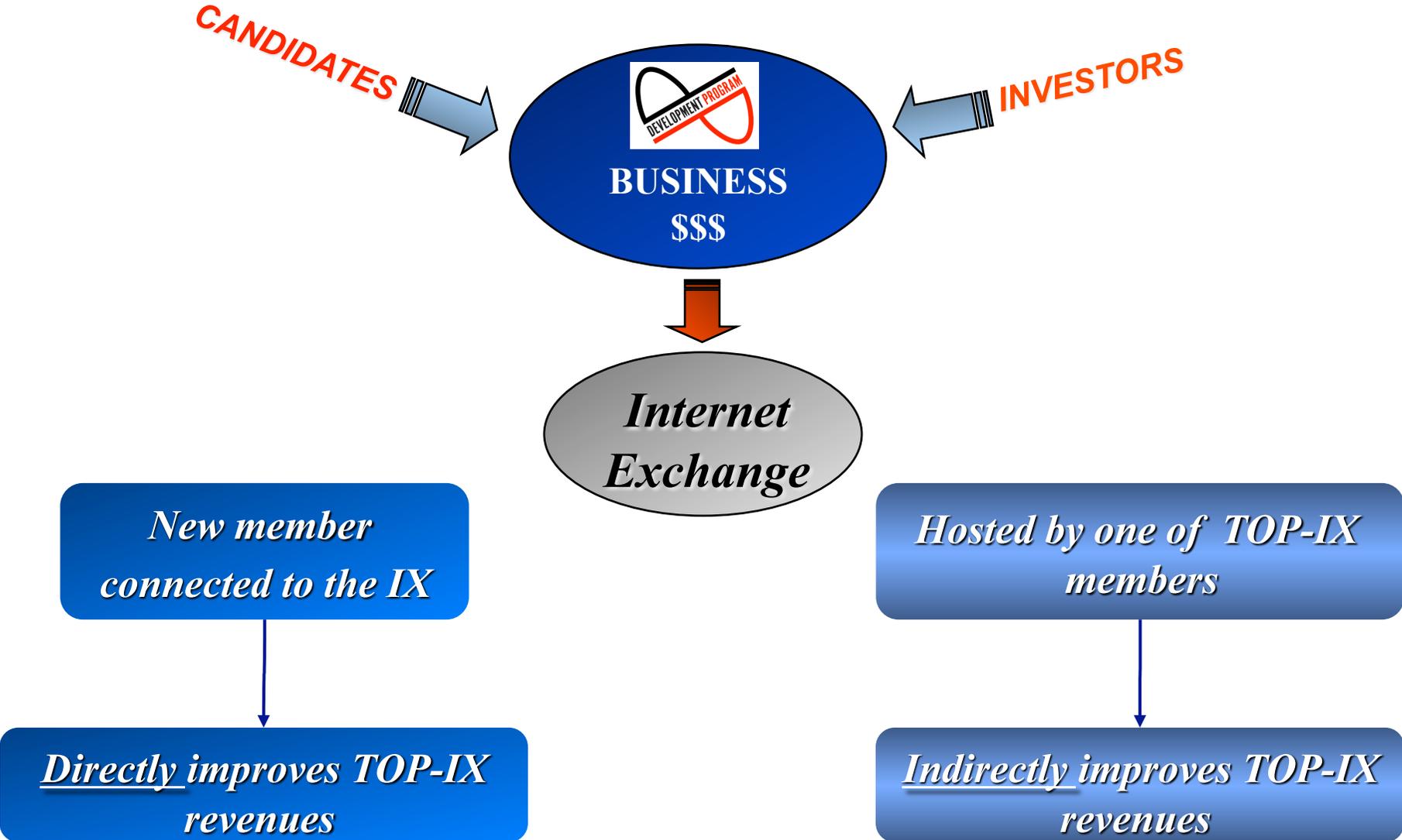


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Traffic



From DP to IX



Questions?

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