

ECIX

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european commercial internet exchange by Peering GmbH

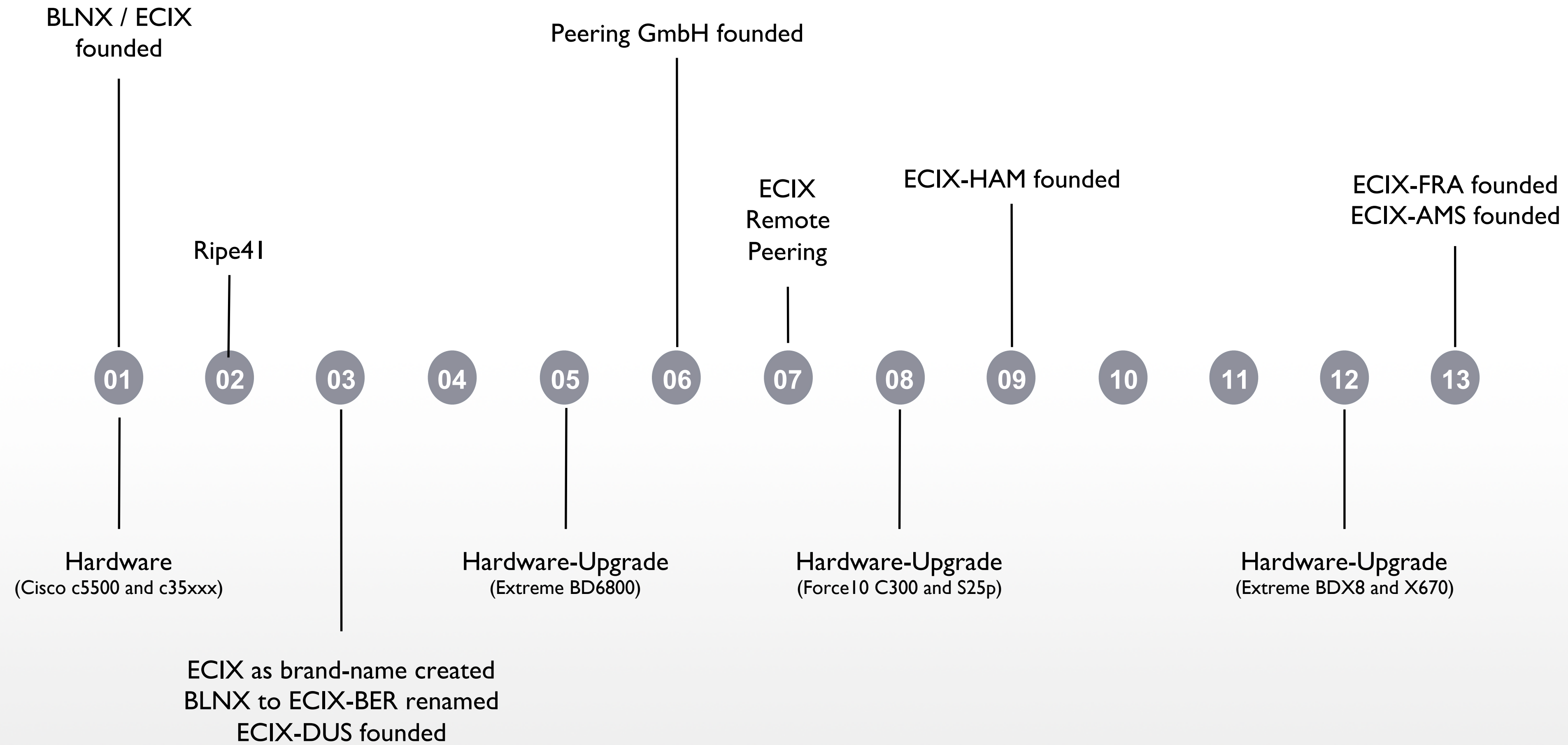


Topics



- History of ECIX
- Current state of ECIX
- Benefits of peering
- Comparing different markets
- How to proceed

History of ECIX: Timeline

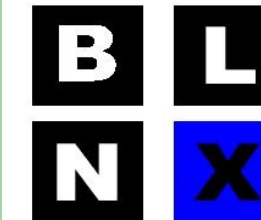


History of ECIX: Timeline



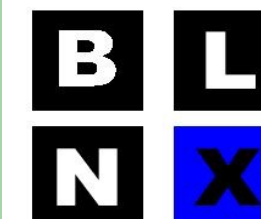
- 1993 NIX (Oslo)
- 1993 FICIX (Finland)
- 1994 LINX (UK)
- 1994 SIX (Slovenia)
- 1994 INXS (DE)
- 1995 DE-CIX (DE)
- 1995 MSK-IX (Russia)
- 1995 BNIX (Belgium)
- 1995 Lisbon (Portugal)
- 1996 NIC.CZ (Czech)
- 1996 BIX (Hungary)
- 1996 VIX (Austria)
- 1996 INEX (Ireland)
- 1997 Netnod (SE)
- 1997 ESPANIX (Spain)
- 1997 LONAP (UK)
- 1997 GR-IX (Greek)
- 1997 AMSIX (NL)
- 1997 GR-IX (Greek)
- 1997 AMSIX (NL)
- 2000 MIX (Italy)
- 2001 PARIX (French)
- 2001 RoNIX (Romania)
- **2001 BLNX / ECIX (DE)**
- 2002 BCIX (DE)
- 2002 TOPIX (Italy)
- 2002 NL-IX (NL)

Source: http://en.wikipedia.org/wiki/List_of_Internet_exchange_points_by_size



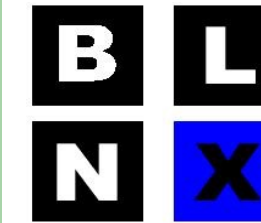
Why are we doing this?

- A good business plan!
- A need for backup!
- A growing bandwidth!
- A location near new customers, coming from eastern parts of germany and poland!



Members today

- Signed Contracts
 - IPBerlin
 - Akamai
 - go.ana
- Signed LOI's and in depth talks
 - Four big ISP
 - Three midsize ISP



Standard Products

- Ports
 - 100/1000Mbps IEEE802.3
 - E3/T3/STM-1 SDH
 - 100Mbps Multicast (Q3/2002)
- Rackspace (Managed and Unmanaged)
- Service Engineer

History of ECIX: Pricing development



2014 ECIX

ECIX	Peering		
Order ID	Description	Speed	MRC
E-BASE	Base (only payable for first location)		50,00 €
E-1G	1GE Port	1000	500,00 €
E-10G	10GE Port	10000	1.000,00 €
E-40G	40GE Port (LR4)	40000	3.500,00 €
E-100G	100GE Port (LR4)	100000	5.000,00 €
E-1G-250M	1GE Port 250 Mbps commitment	250	125,00 €
E-10G-2.5G	10GE Port 2.5 Gbps commitment	2500	500,00 €
E-100G-25G	100GE Port 25 Gbps commitment	25000	2.500,00 €

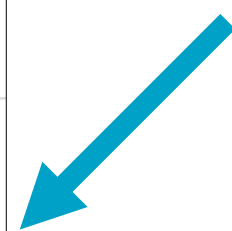
2003 ECIX

Produktname

ECIX Mitgliedschaft
 ECIX Mitgliedschaft IKO
 ECIX 10
 ECIX 10/100
 ECIX 1000
 ECIX RouteServer
 ECIX VLAN
 ECIX MCAST 10/100
 ECIX RemoteHand
 ECIX RemoteHandM
 Stratum2

Kommentar

Mitgliedschaft
 Mitgliedschaft als IKO Mitglied
 10BaseTX Unicast
 100BaseTX Unicast
 1000BaseSX Unicast
 inklusive
 eigenes VLAN
 10/100BaseT Multicast VLAN
 Service Engineer 1Std
 SE als Mitglied des ECIX
 inklusive



Analoge Telefondose
 RACK
 RACK Einrichtung
 RACK HE9
 RACK HE9 Einrichtung

zusätzlich
 40 HE
 Setup / Crosslink ECIX
 bis 9 HE

ECIX

Fälligkeit

750,00 € jährlich
 500,00 € jährlich
 300,00 € monatlich
 300,00 € monatlich
 1.000,00 € monatlich
 - € monatlich
 150,00 € monatlich
 300,00 € monatlich
 80,00 € ganze Stunde
 60,00 € ganze Stunde
 - € inklusive
 15,00 € monatlich
 950,00 € monatlich
 450,00 € einmalig
 225,00 € monatlich
 100,00 € einmalig

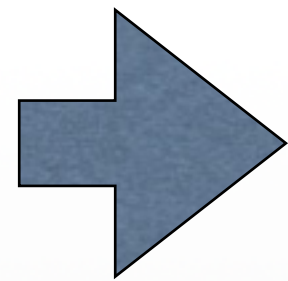


extract from: <https://www.ecix.net/products/pricelist/>

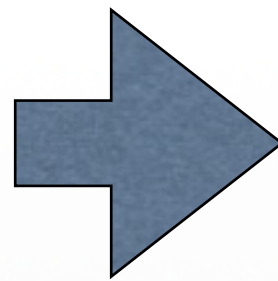
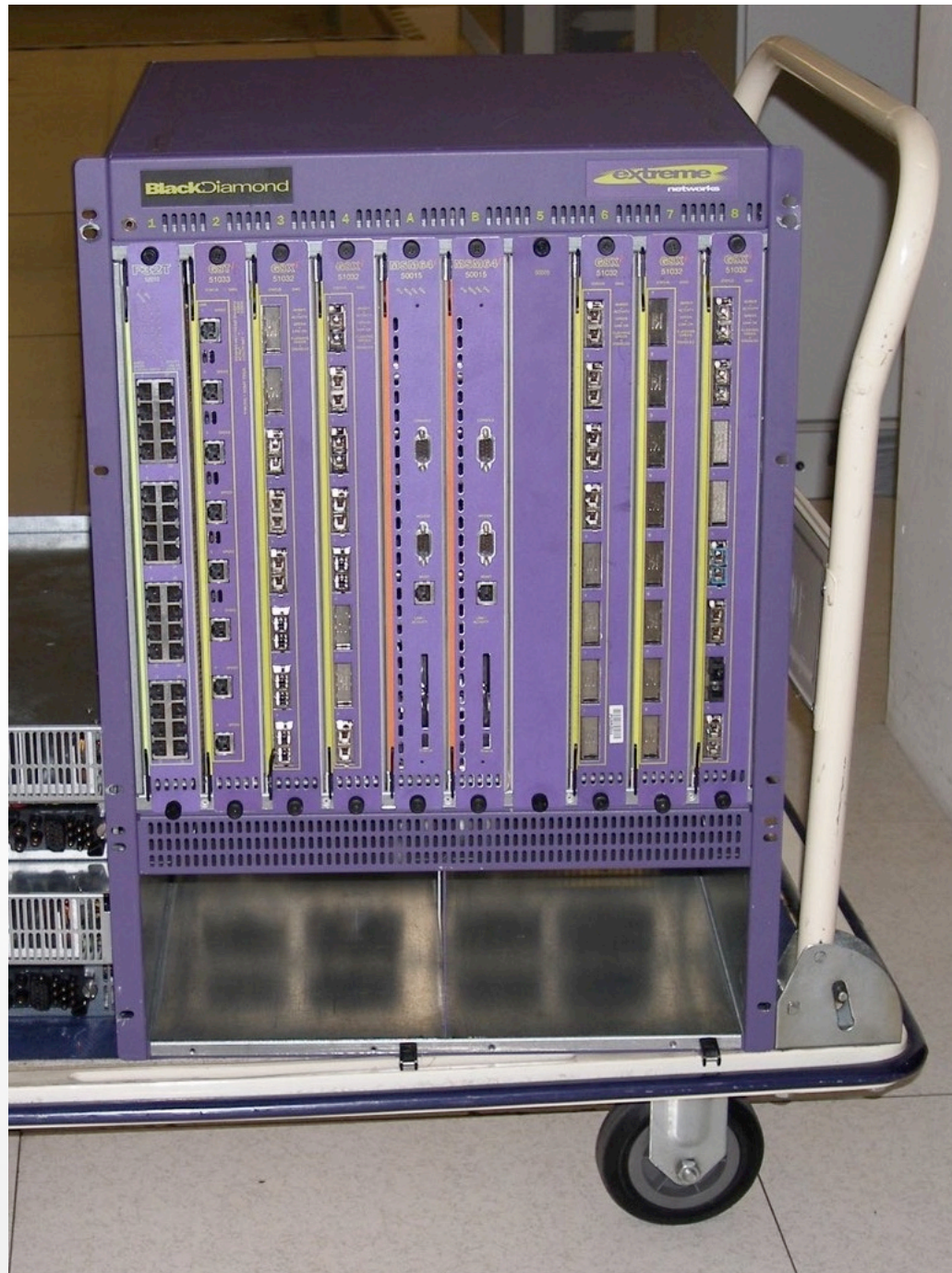
History of ECIX: plan for growth



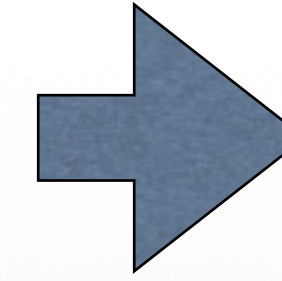
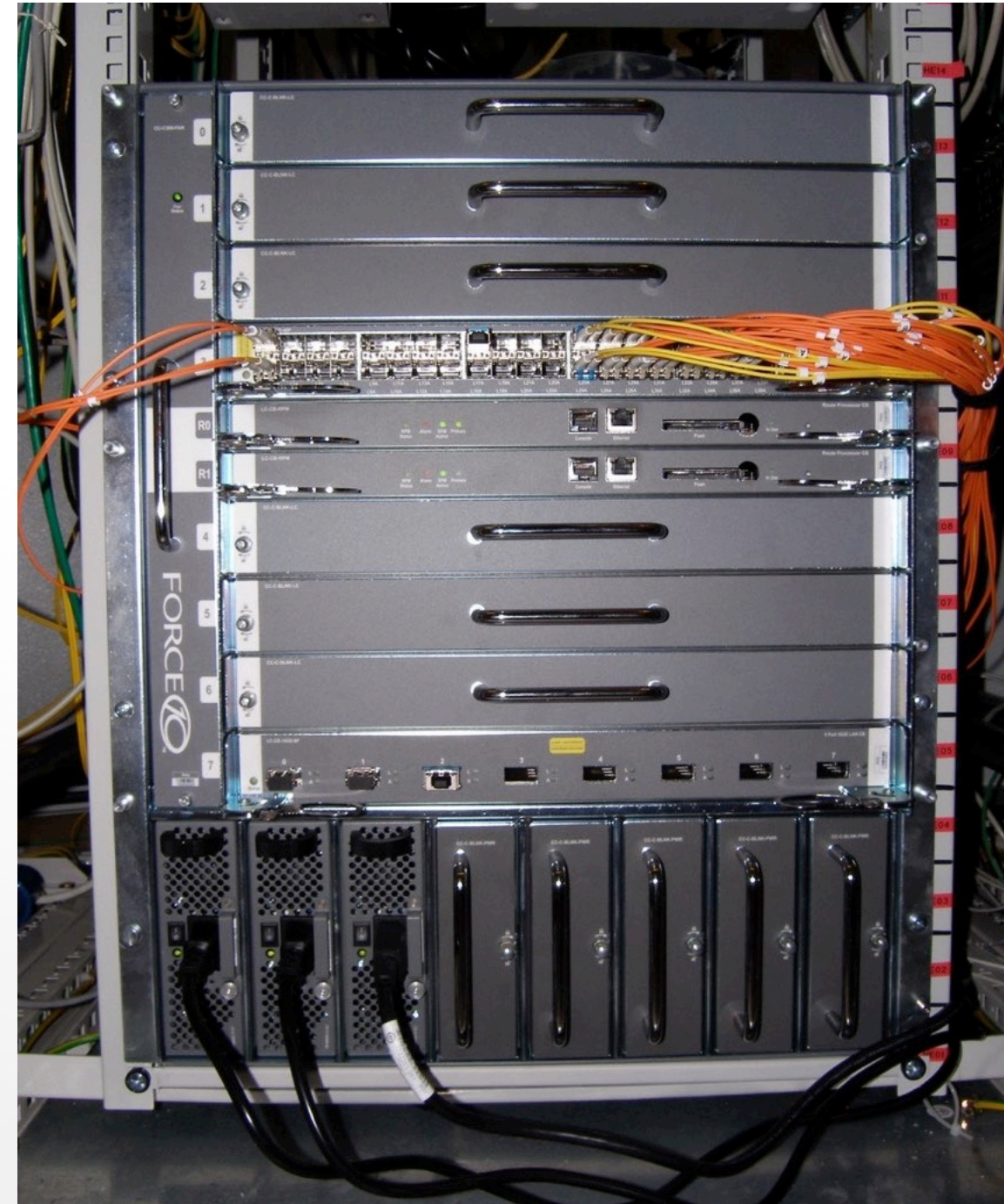
2003



2005



2008



2012

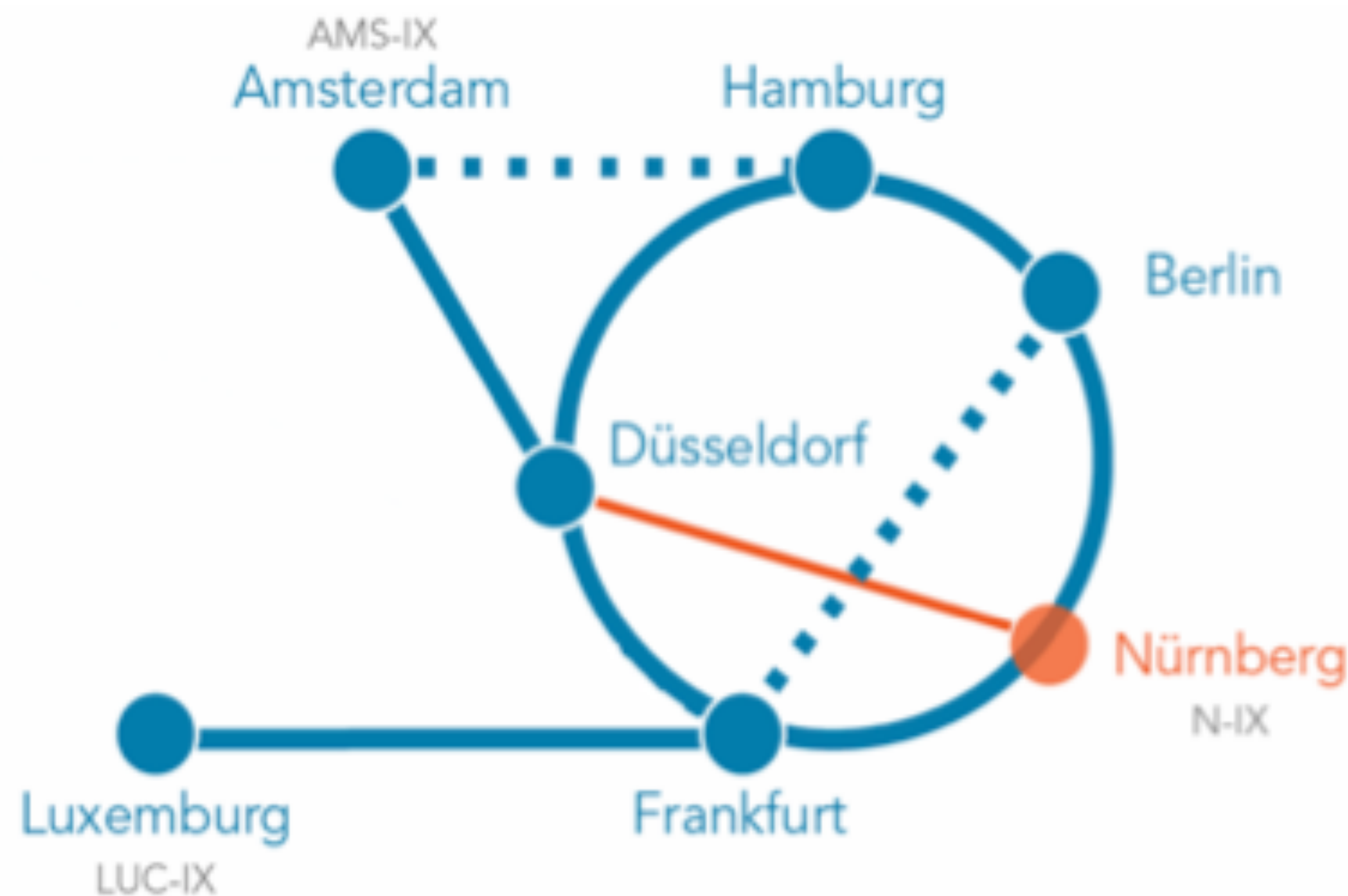


Current state of ECIX



- 200 unique ASNs, 490 Peering IPs (221 IPv6)
- 450 Gbit/s peak traffic
- 5 Regional ECIX locations in Germany
- 25 PoP's in Germany
- Peering Ports 1GE up to 100GE
- Remote Peering to all ECIX Locations
- Remote Peering to other IXs in Europe

Current state of ECIX



- Juniper MX-Series
- MPLS/VPLS transport
- Based on diverse 10GE waves
- Redundant setup
- Fixed latency
- Independent from IX platform

<https://www.ecix.net/about-us/locations/>

Current state of ECIX: Locations



Berlin (2001)

5 Locations

Core: Speedbone

Interfaces: 1/10/40GE

Düsseldorf (2003)

4 Locations

Core: Interxion

Interfaces: 1/10/40/100GE

Hamburg (2009)

4 Locations

Core: IPHH

Interfaces: 1/10/40GE

Frankfurt (2013)

11 Locations

Interfaces: 1/10/40/100GE

Amsterdam (2013)

1 Locations

Interfaces: 1/10GE



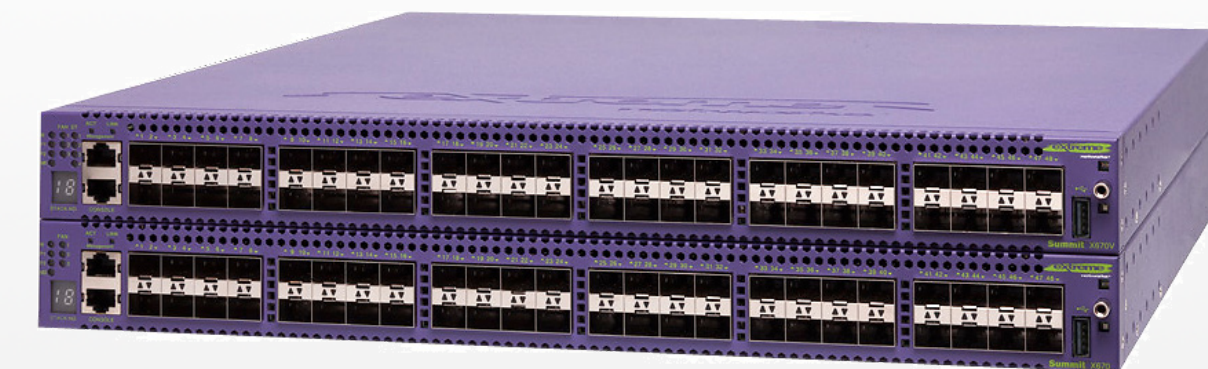
<https://www.ecix.net/about-us/locations/>

Switch platform



Extreme Networks BDX series

- Port-density
- Price-per-Port
- MPLS capabilities
- 40GE and 100GE
- Power Consumption
- EXOS on all platforms
- sFLOW
- access to developers



Benefits of peering



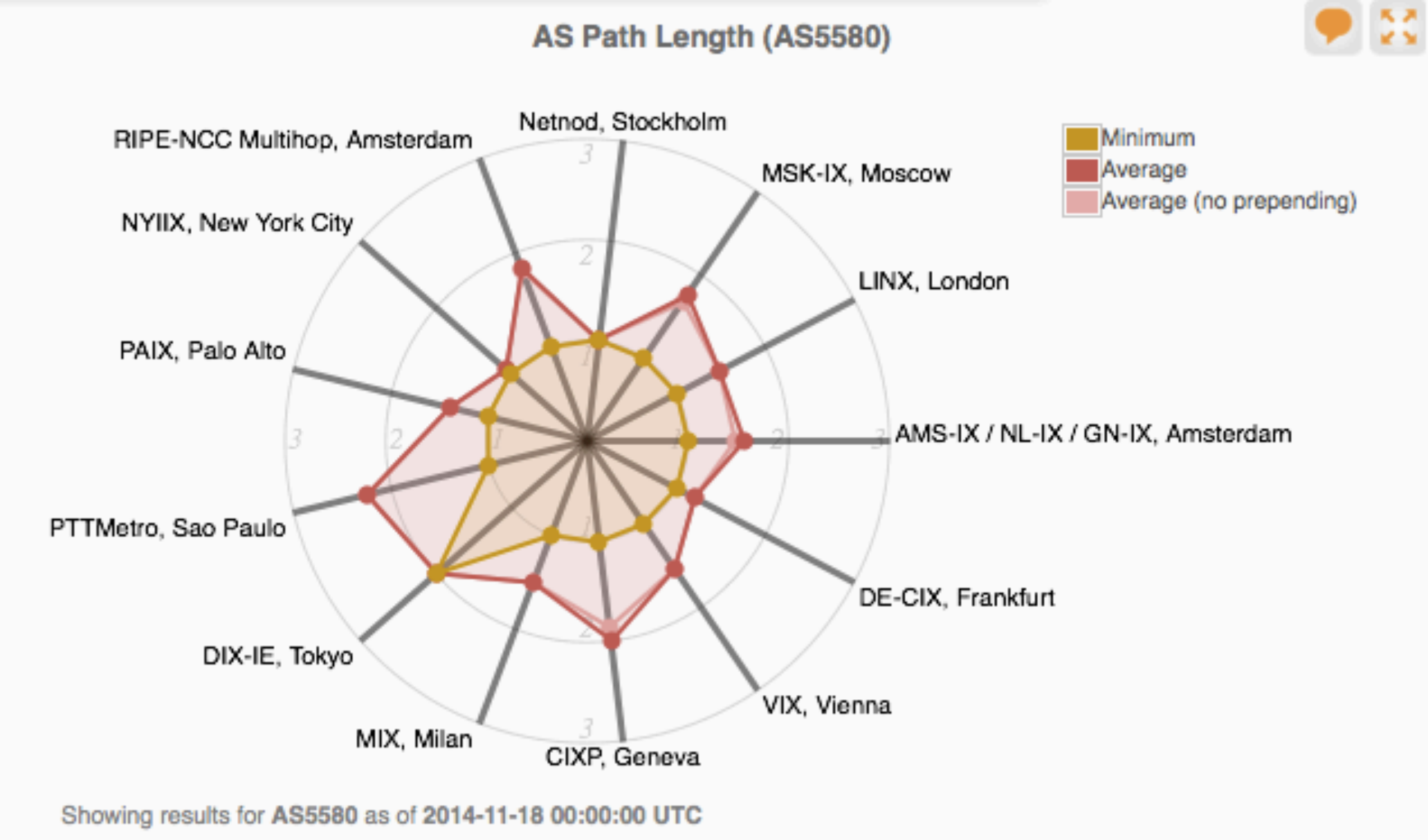
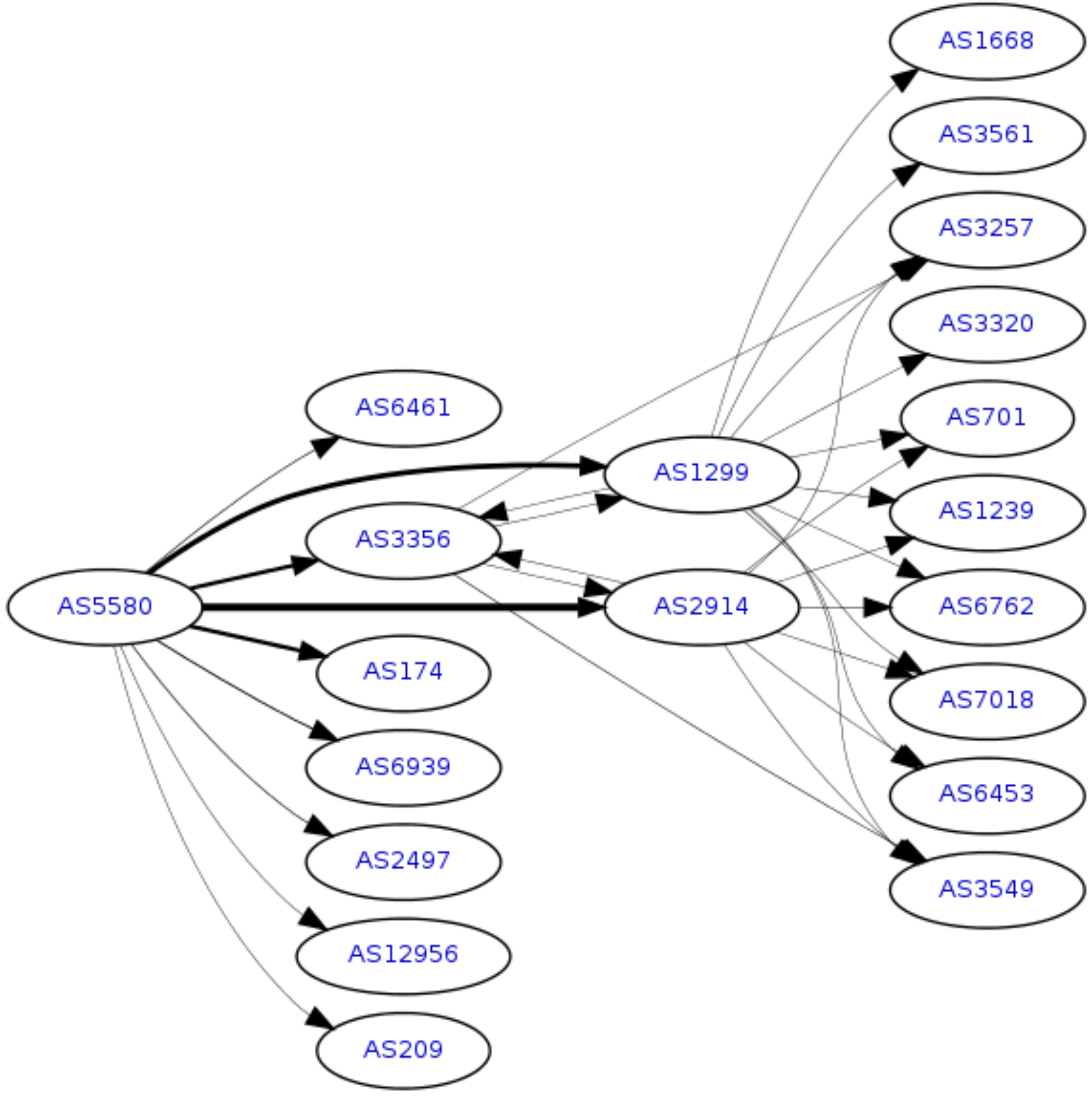
- Keep local traffic local
- Improve latency (fixed latency)
- Manage data traffic
- Better redundancy
- Improve internet community
- Lower costs

Comparing different markets

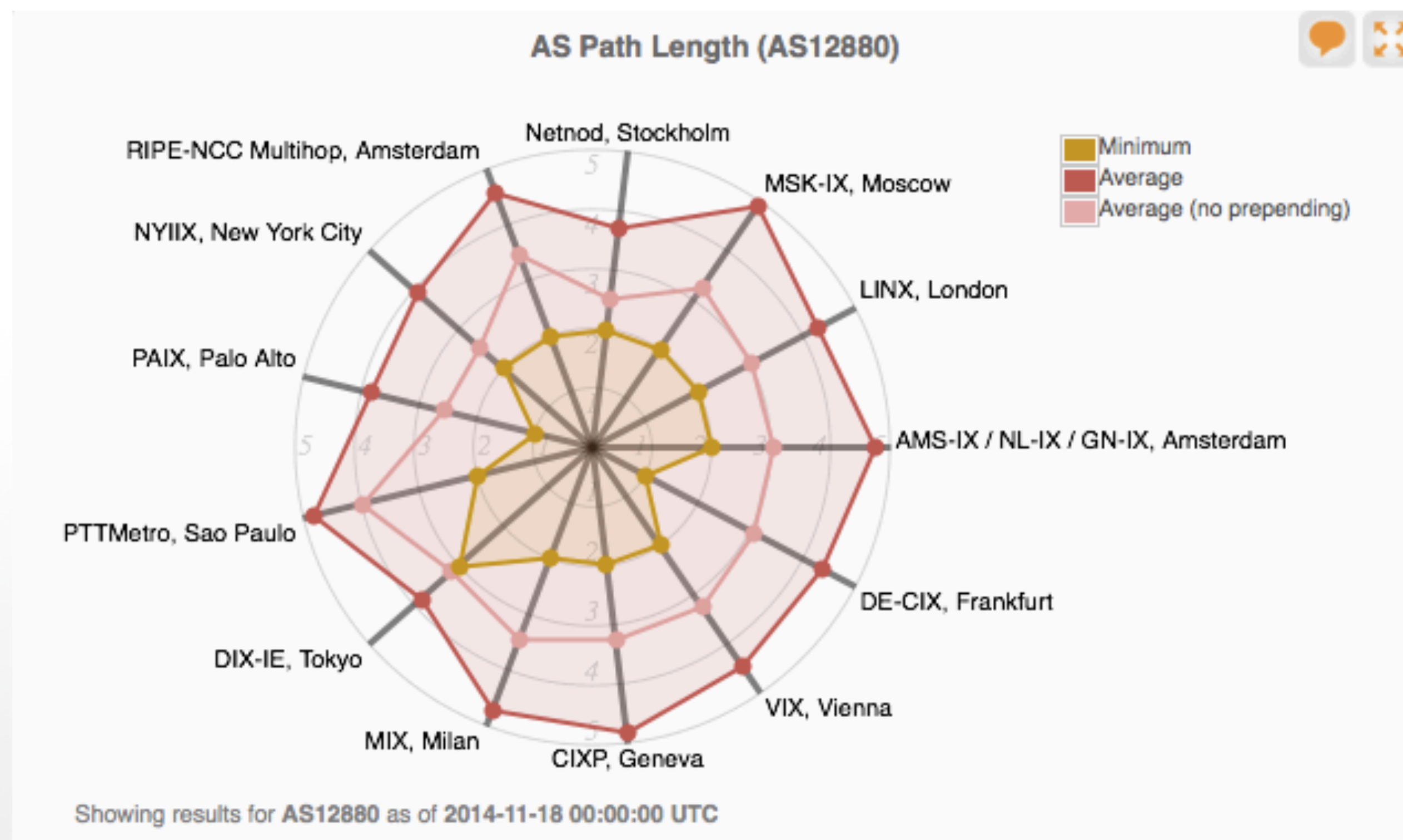
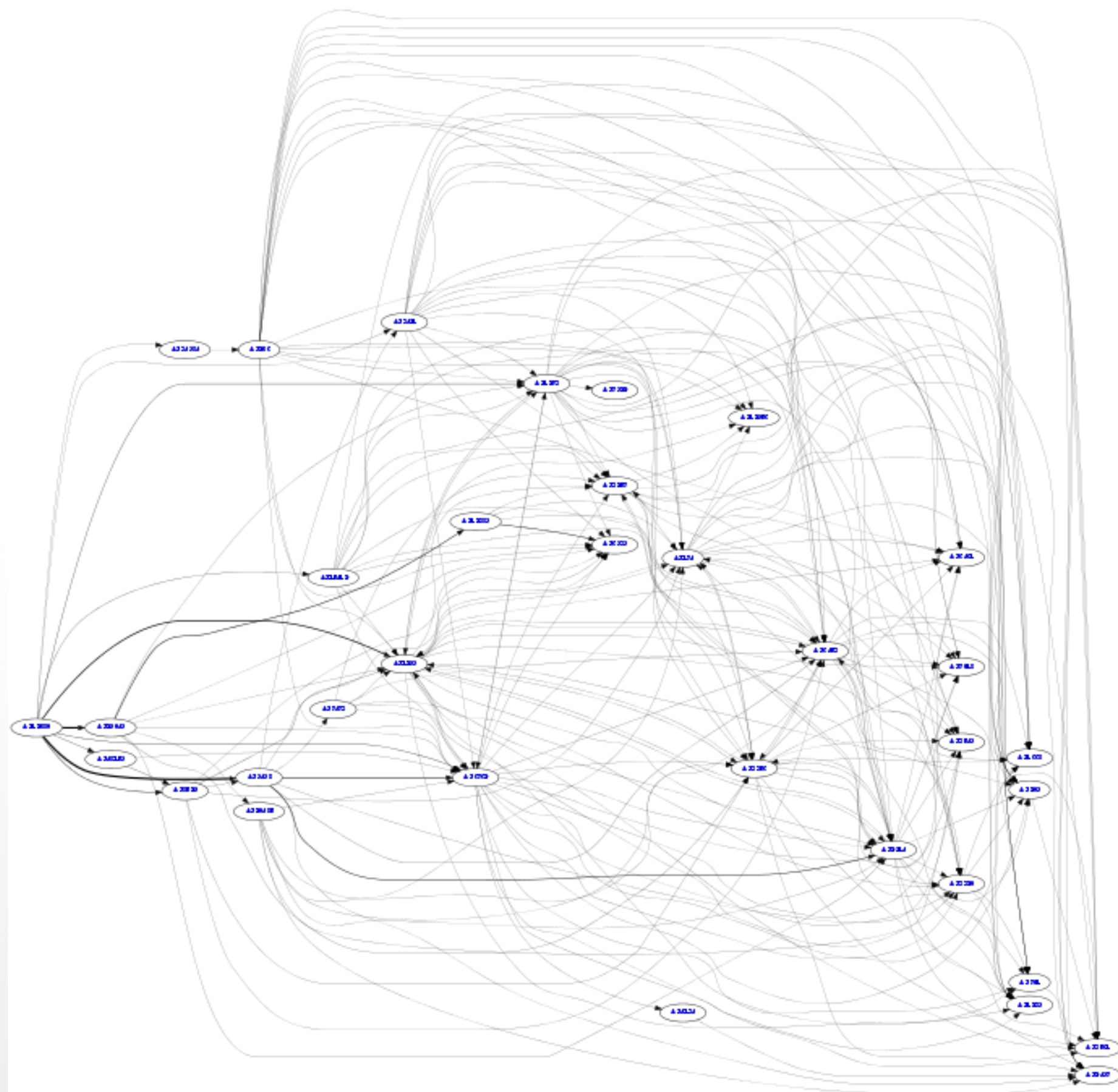


	Iran	Turkey	Bulgaria	Netherlands
ASN #	292	324	497	579
IX #	1 (?)	1 (*)	5	12
Population	77.000.000	77.000.000	8.000.000	17.000.000
Transit €	?	4,00-15,00	0,50-0,70	0,30-0,50
Bandwidth	5	12	34	45

Comparing different markets



Comparing different markets



How to proceed



- Network!
- Network!
- Network!
- Talk to your prospective peers (data analysis)
- Engage governmental departments
- Talk to IX operators (EPF, GPF, RIPE events)
- Form working group (IRANET, RIPE, IRNIC)

Thank You!



Questions?

More information: <http://ecix.net/>

Contact: info@ecix.net

european commercial internet exchange by Peering GmbH