

Russian Peering Ecosystem



CEE Peering Day 2014
Sergey Kiselev, MSK-IX

Peering locations

Moscow / St. Petersburg

- MMTS-9 / Borovaya – unique very populated peering locations of the past century
- Datacenters – growing business with substantial new development. Up to 10-30 providers per DC in average. Costly fiber to MMTS-9 / Borovaya.

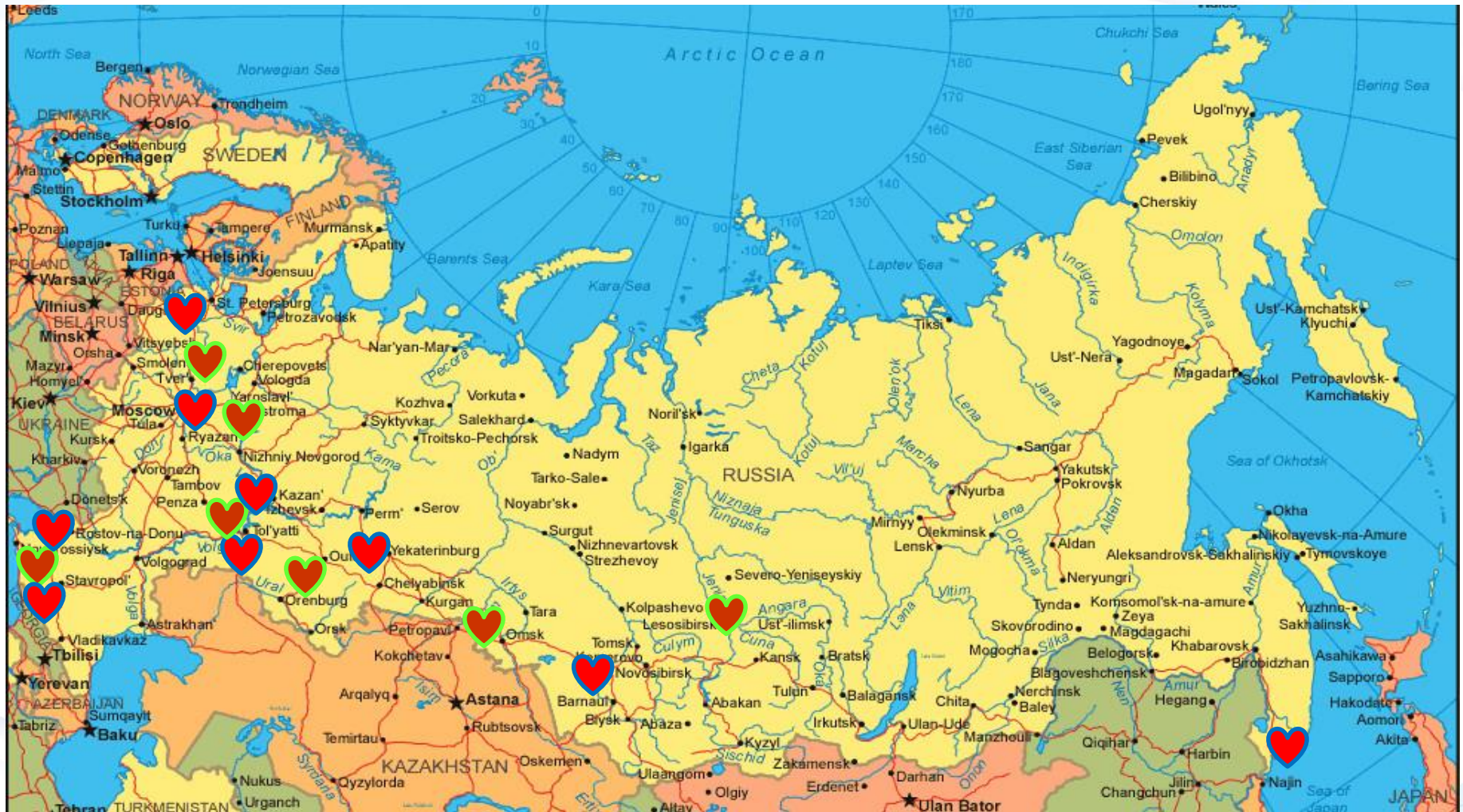


Other major cities

- Lack of neutral up-to-date colo infrastructure. No standard remote hands service mostly.
- Transit much more expensive than that in Moscow / St. Petersburg
- Most of hosting, content and services far away (Moscow / St.Petersburg / other countries)



MSK-IX and other IXs on the map



 MSK-IX

 Other IXs

Market challenges

- ❑ Continued consolidation of small regional ISPs by big players (Megafon, Rostelecom, MTS, Beeline, TTK)

- ❑ Transit pricing erosion at St. Petersburg and Moscow combined with paid peering pricing lowering (at this point 1G port affected mostly)

- ❑ At least three projects IX-like emerged on the market:
 - DataIX - distributed peering with preferences to traffic sources (content/service providers free of charge including x-conn)
 - W-IX (iHome) offering distributed peering at all public peering points where they are a member
 - CloudIX - transit combined with free local peering

Common features of IX-like projects

- Using “IX” wording to differentiate from traditional majors like Rostelecom, Megafon, MTS, Beeline, TTK
- Hire or buy third party dark fiber capacity to build own network
- Using very advanced network equipment capable to emulate IX environment out of transit network
- Pricing depends on location, traffic profile and volume
- Addressing needs of small Russian ISPs in cheap traffic
- Expanding their networks reach beyond Russia

Traffic costs

Peering

- Private from free through public peering cost
- Public peering at Moscow MSK-IX:
 - 1G 577 Euro
 - 10G 1730 Euro
 - 100G coming spring 2014
- Public peering at other cities 80%-160% of Moscow pricing

± X-connection / last mile

Transit

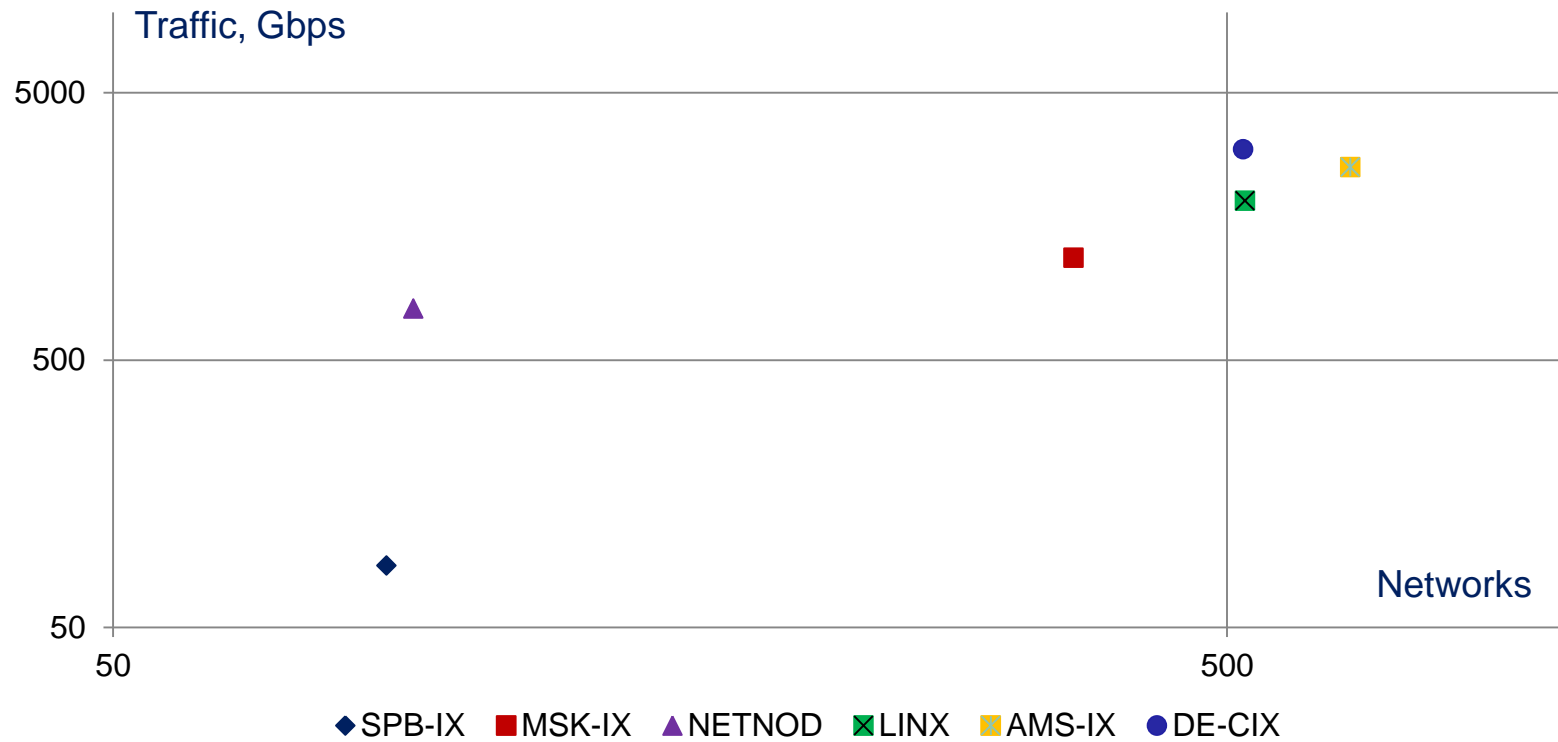
- Negotiable. Depend on volume, proximity to peering locations and competition level
- Within Russia varies 0.4 .. 40 Euro per 1 Mbps **

± X-connection / last mile

* As per Russian Central Bank exchange rate on 01.03.2014

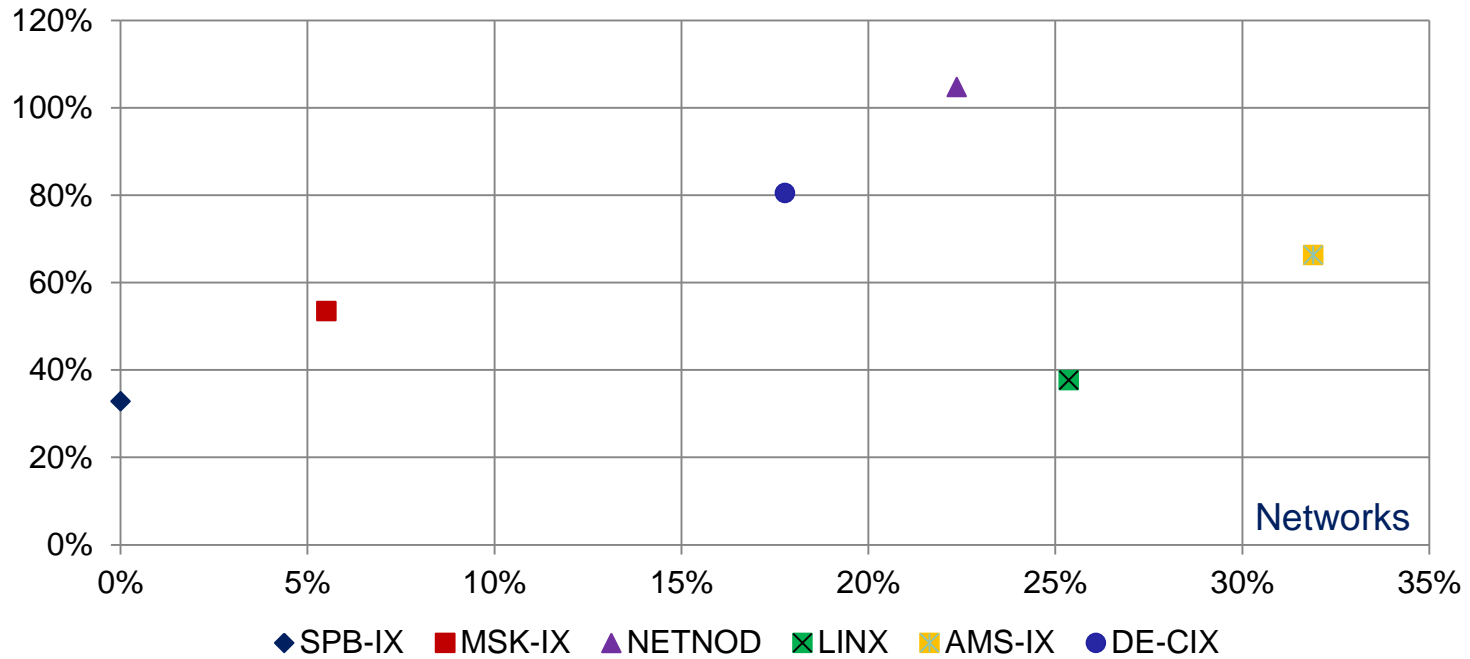
** Based on data collected from the market

Scale of public peering



Public peering growth

Traffic



Based on public data for the period from 2012 through 2014

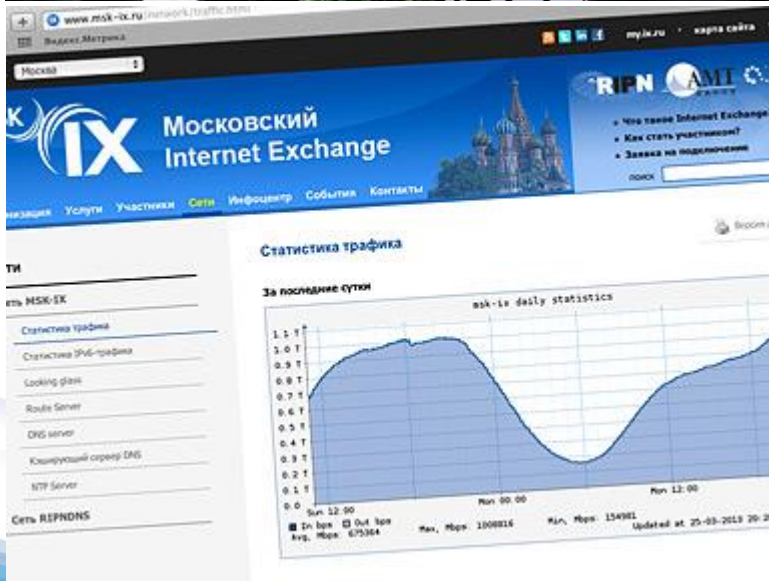
Peering in 2014

Outlook from Dr. Peering

- Internet traffic growth to be continued
- Remote peering continues its growth: enterprises, content providers, cloud, e-commerce and portals
- Emerging regions growth drives traffic and routes to mature IXPs
- New traffic and applications drive distributed peering growth
- Power and capacity growth drive distributed peering growth

Dr. Peering

MSK-IX



- Operating since 1995 in Moscow
- Currently 9 IX points across Russia:
 - St. Petersburg SPB-IX
 - Moscow MSK-IX
 - Roston-on-Don RND-IX
 - Stavropol STW-IX
 - Samara SMR-IX
 - Kazan KZN-IX
 - Ekaterinburg EKT-IX
 - Novosibirsk NSK-IX
 - Vladivostok VLV-IX
- Moscow Internet Exchange with 368 ASN / 263 unique across Euro-IX over 1.2 Tbps peak traffic
- All MSK-IX' IXs: 500+ unique ASNs

MSK-IX services

