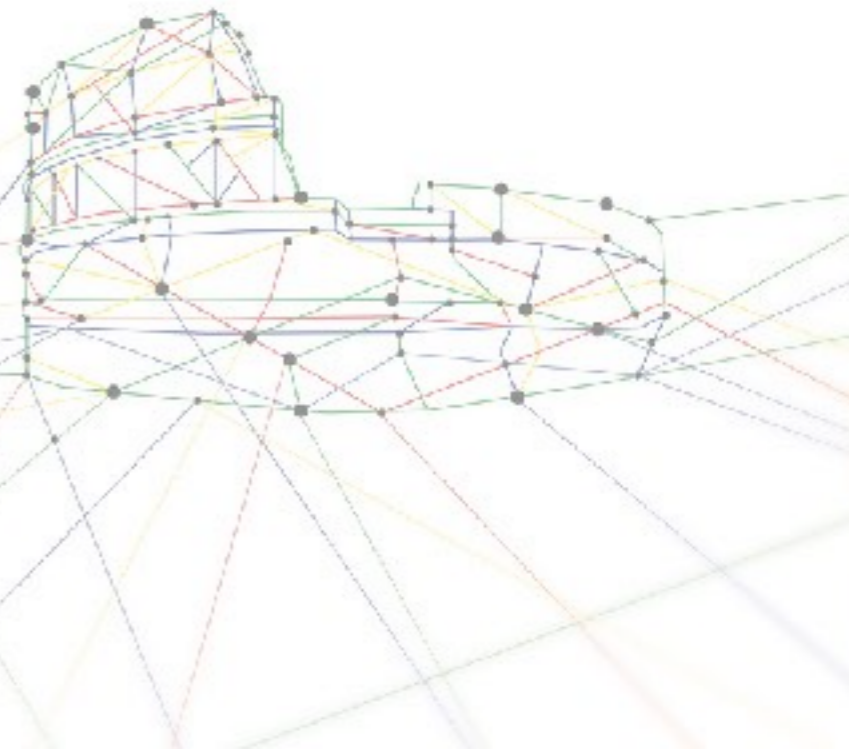


# NAMEX/ROMA

## IXP UPDATE

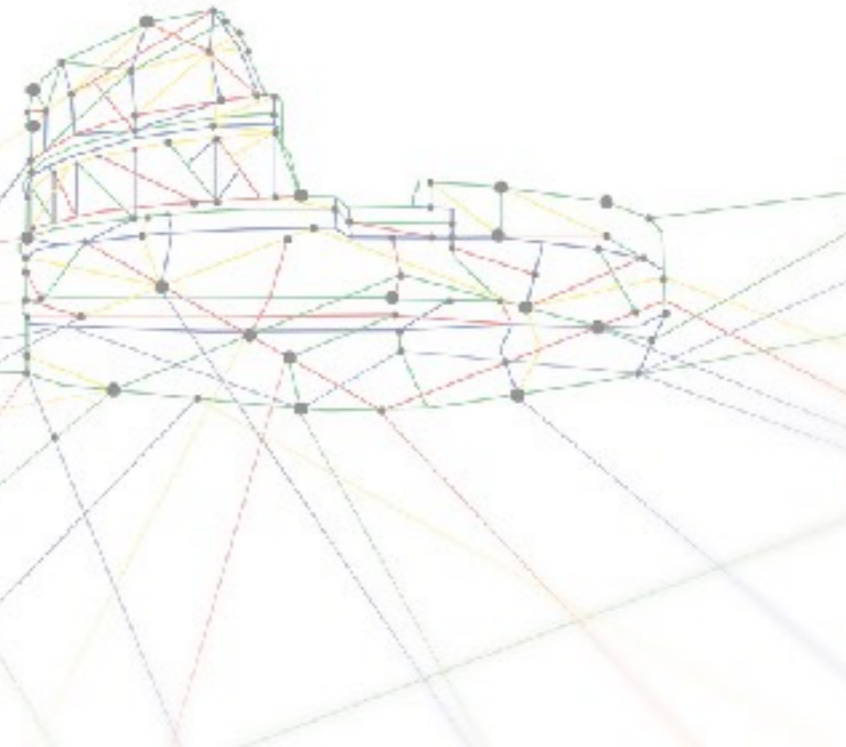
*ITNOG2017, Bologna*

flavio luciani



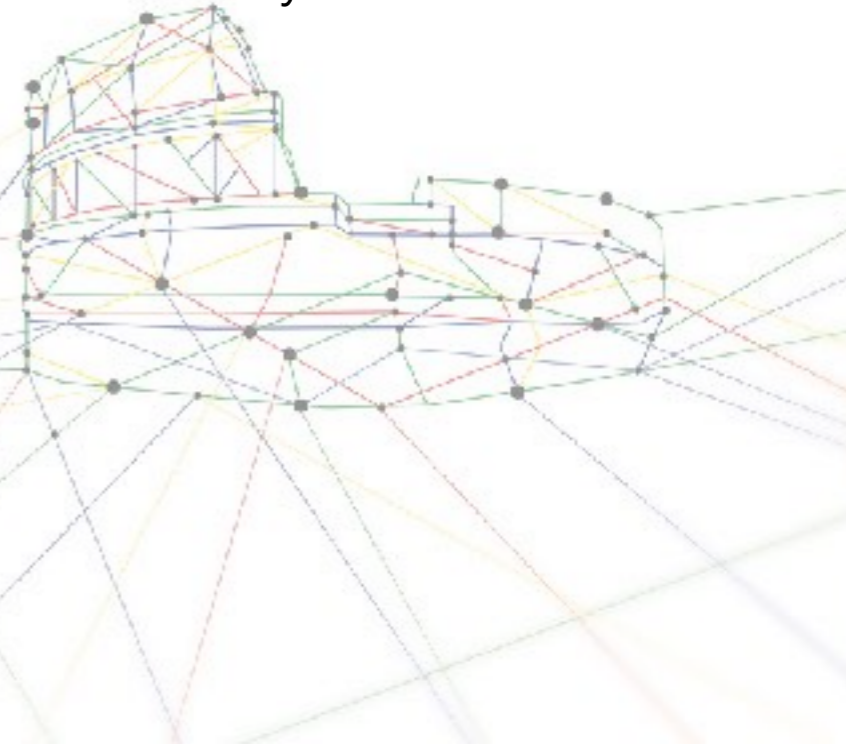
# OUTLINE

- Quick facts
- Remote peering
- New sites in Roma / Main site expansion
- Members updates
- ANIX, Albanian Neutral Internet Exchange



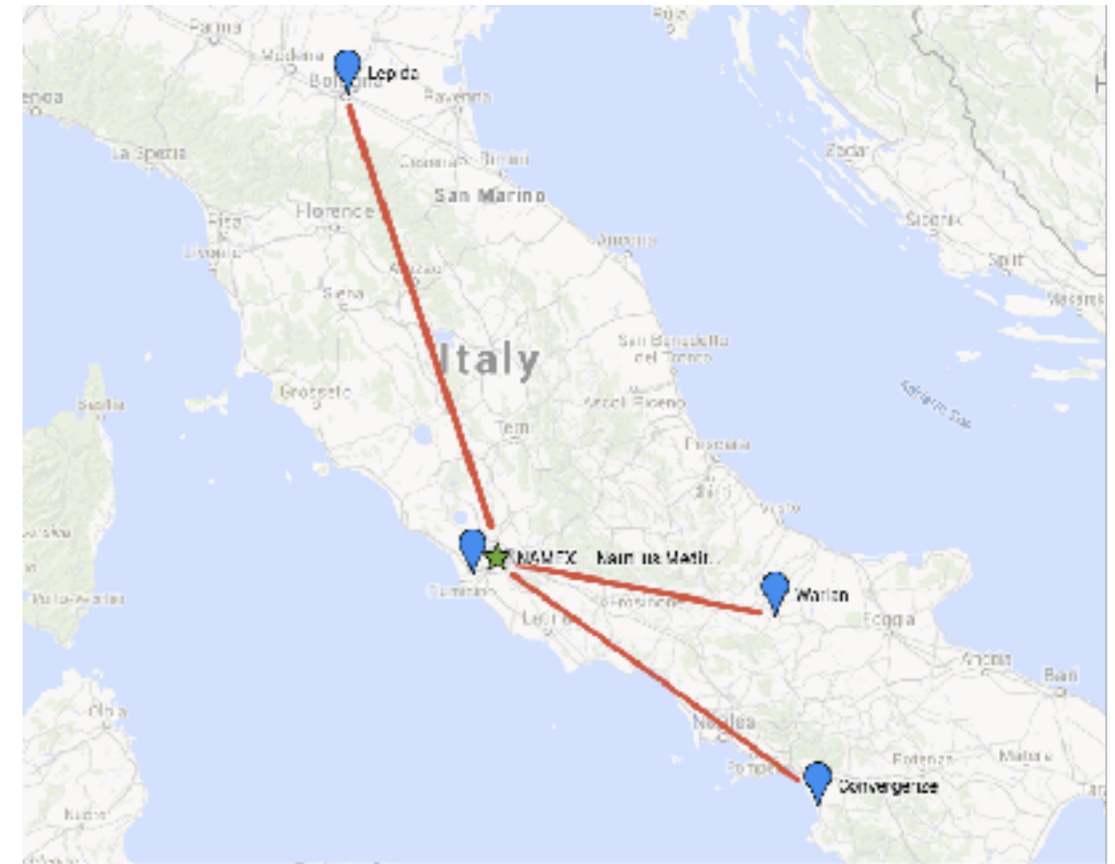
# QUICK FACTS

- Neutral, no profit, member-based
- 80 members
  - National/International carriers
  - CDNs/OTT
  - Local ISPs
  - RN and NGOs
- Public peering, Remote peering, colocation and meet-me room
- ~40Gbps publicly exchanged traffic
- Major network hub and marketplace for Rome and central/southern Italy



# REMOTE PEERING

- **Remote groups @NaMeX**  
A partner aggregates customers and provides physical link to NAMEX:
  - Current partners: Lepida, Convergenze, Unidata, Warian
  - 8 active remote customers
- **Reseller program**  
NAMEX customers can share a virtual transport link to connect to partner IXPs in Europe
  - AMS-IX, Amsterdam
    - established since 2010
    - 10 connected networks
  - LINX, London
    - 2 connected networks



# NAMEX-2

- Unidata / Ponte Galeria datacenter (~40km)
- Colocation area dedicated to NAMEX
- DWDM protected ring to main site
  - DWDM service will be initially provided by Unidata
  - Currently available in 10G channels
- Site is ready, contract is signed



# NAMEX-3

- **Interxion** / Tor Cervara (Wind) datacenter (~15km)
- Colocation island dedicated to Interxion inside Wind datacenter
- 10 racks dedicated to NAMEX
- Dark fiber ring to main site
  - 17km/27km
  - WDM equipment installed and managed by NAMEX
- Site is ready, contract is going to be signed
- WDM equipment installation is on the way



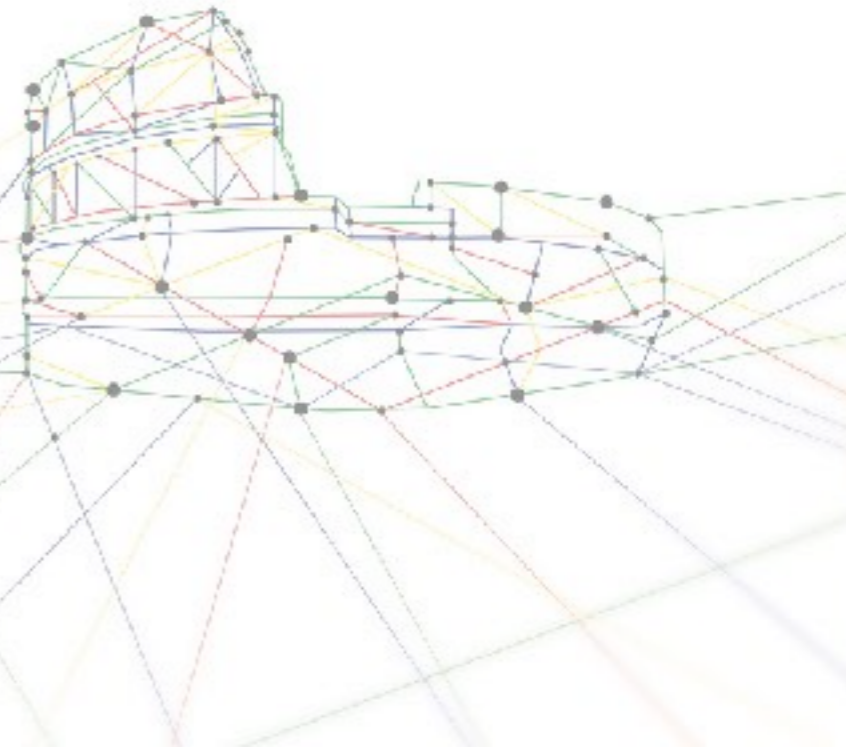
# CINECA DATACENTER EXPANSION

- Works have started October 2017
- Space available in 9-12 months
- +40 racks (but there is space for much more)
- +100kW power budget
- Power and cooling systems will be re-designed
- Improvements will affect also the historical site but ...
  - Major maintenance activities are on the way



# MEMBERS UPDATES

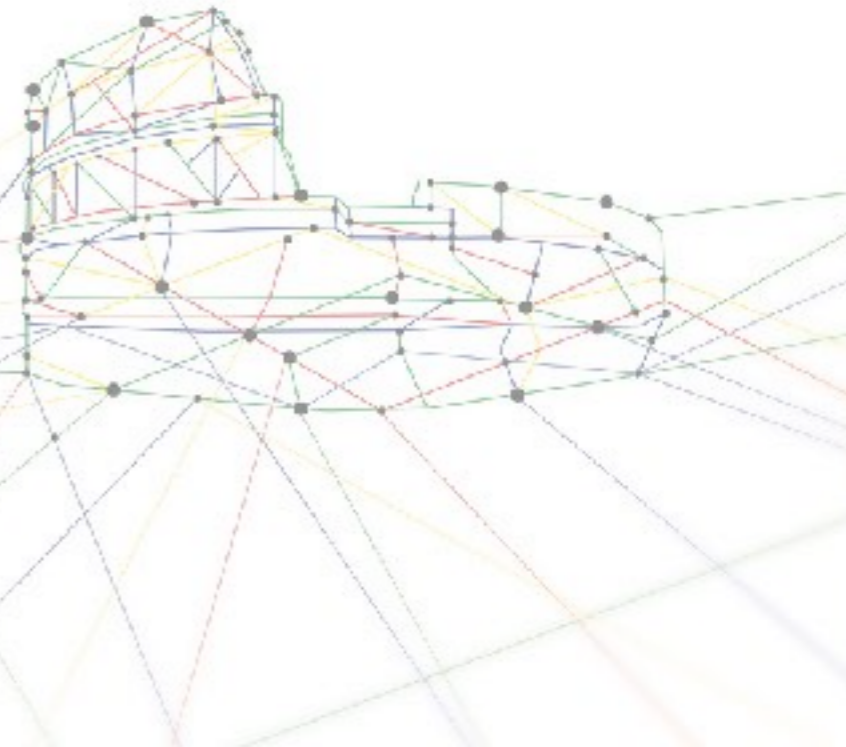
- Netflix cache in Roma
  - +5 racks
  - RFS December 4th
- New COLT Terapop
- Eolo (NGI)
- Upcoming: KPNQwest, Telia Sonera





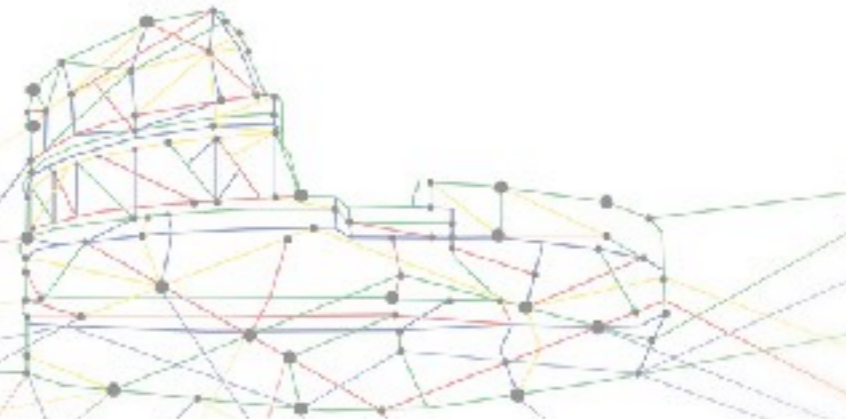
# NAMEX AND RASH

- NAMEX has signed a Letter of Intent with RASH, the Academic Network of Albania, focused on the creation of a neutral IXP in Tirana
- Albania is experiencing a growth in its national Internet traffic, but most of this traffic flows beyond borders, a situation that seems fit for the creation of a national neutral peering point
- The extent of the collaboration between NAMEX and RASH includes:
  - An analysis of the Albanian Internet ecosystem (Daniele Arena)
  - Technical support and advising in the setup of a local peering point in Tirana
  - Support in the creation and promotion of a local Internet community, also in the form of a national NOG



# ANIX

- ANIX, The Albanian Neutral Internet Exchange is being established in Tirana, hosted inside RASH facilities
- NAMEX has provided RASH with the switching equipment to startup the peering point:
  - Cisco 6503E with FE/GE/10GBE capabilities
- NAMEX is supporting RASH with its know-how along several lines:
  - setting up the whole infrastructure, which includes a brand new datacenter
  - definition of operating rules
  - Scouting and prospects research focused both on local actors and worldwide content providers



# ALNOF

- NAMEX is also helping in the organization of ALNOF, the first Albanian network operators forum (<http://alnof.namex.it>)
- The event will take place in Tirana, next Tuesday, November 14th and will be an occasion for local operators to meet and discuss common visions and issues
- The forum will also host speeches from foreign actors sharing their experience in the setting up of local network communities
- In the afternoon session, NAMEX will hold a workshop on BGP and the benefits of peering

## Part I: Interconnection

- 10.10-10.30 Interconnection in Albania and the Albanian Neutral IXP (*Daniela Arena, NAMEX*)
- 10.30-10.50 The experience of a regional IXP: MIXP (*Božo Krstajić, MIXP*)
- 10.50-11.00 PeeringDB (*Bijal Sanghani, Euro-IX*)
- 11.00-11.20 Facebook: network infrastructure and interconnection (*Lee Hetherington, Facebook*)
- 11.20-11.30 The transition to IPv6 (*Marco d'Itri, Seeweb*)
- 11.30-12.00 *Coffee break*

## Part II: Networking Community

- 12.00-12.20 RIPE NCC Services and Activities (*Mirjam Kühne, RIPE NCC*)
- 12.20-12.40 Network Operator Groups: What, Why and How – the example of SINOG (*Jan Zorz, ISOC*)
- 12.40-13.30 *Panel: Interconnection and Networking Community in Albania*
- 13.30-14.30 *Lunch*
- 14.30-17.00 *BGP Workshop*

**See you in Tirana next week!**

The background features a complex network of thin, multi-colored lines (blue, green, yellow, red, grey) that intersect and form a dense web. On the right side, there is a more structured network diagram with black nodes and connecting lines, resembling a graph or a data structure. The overall aesthetic is technical and modern.

# Thank you!

[info@namex.it](mailto:info@namex.it)