

RIPE SEE 10

ANIX Update

(and an outlook on the Adriatic Route)

Daniele Arena

12 April 2022



About **NAMEX** Internet Exchange Point



Largest IX in Central-Southern Italy

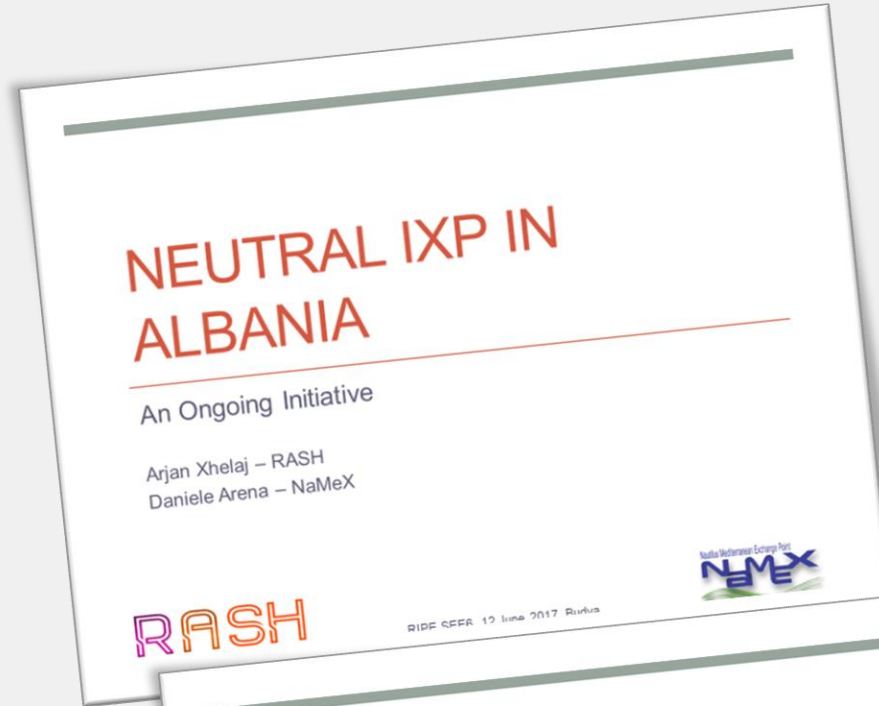
- Established in 1995
- 430G peak
- 186 connected networks
- 3 sites in Rome

NomeX Roma



But we're talking about **ANIX** Today

ANIX Tirana



RIPE SEE 6,
Budva 2017

RASH

RIPE SEE 12 June 2017 Budva



ANIX

The Albanian Neutral Internet Exchange

Daniele Arena - NAMEX
Kledi Andoni - ANIX



RIPE SEE 7, 19 June 2018, Timișoara



RIPE SEE 7,
Timișoara 2018

2017

2018

2019

2020

2021

ANIX is Born

The first Albanian Network Operators Forum (ALNOF) is organized

The first three networks start peering at ANIX

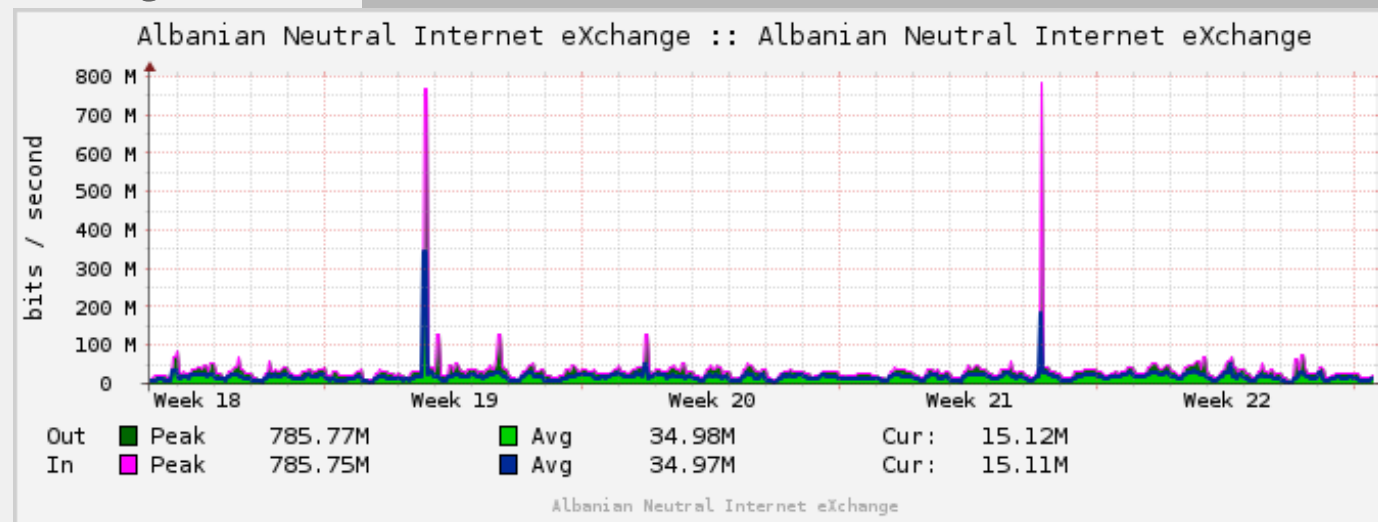
Based on volunteer effort:

- Namex and PCH donated the switches
- RASH provides the colocation
- Volunteers and ISPs donate router, servers and bring the fibers

With the support of:



ANIX Start-up



2017

2018

2019

2020

2021

2022

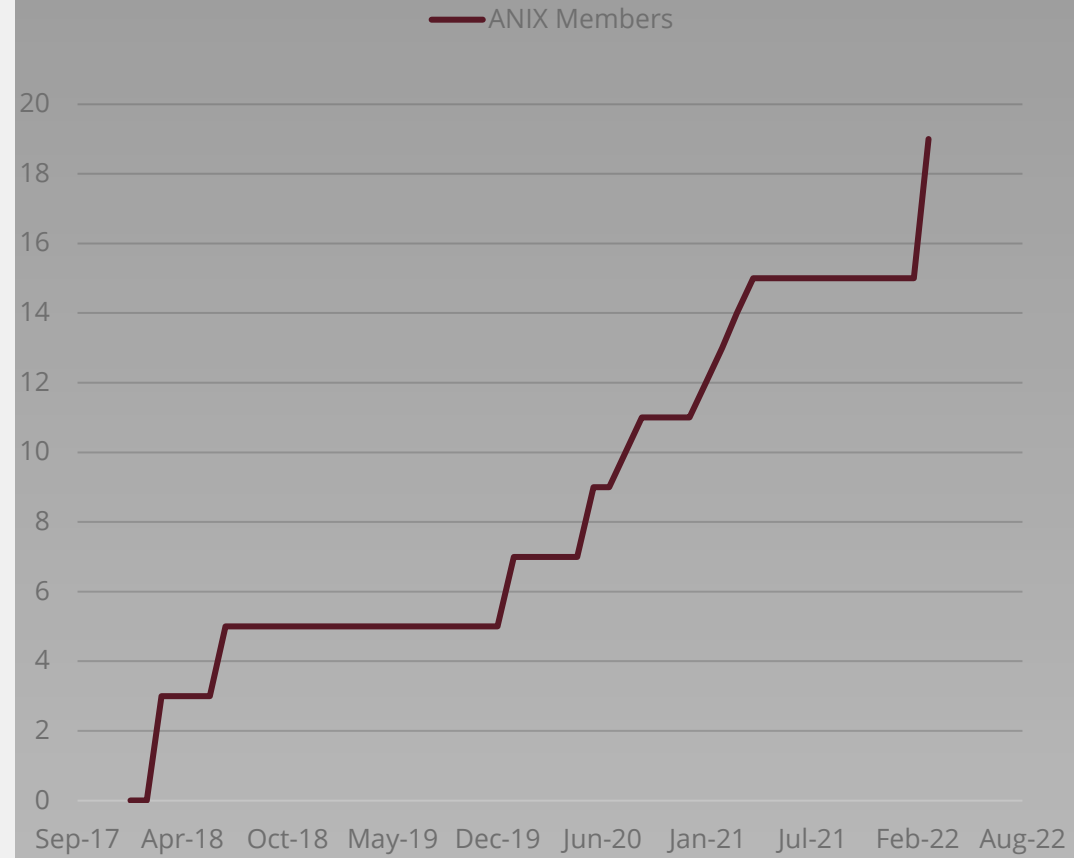
From 0 to 18(+1)
members in 4 years

14 Albanian networks

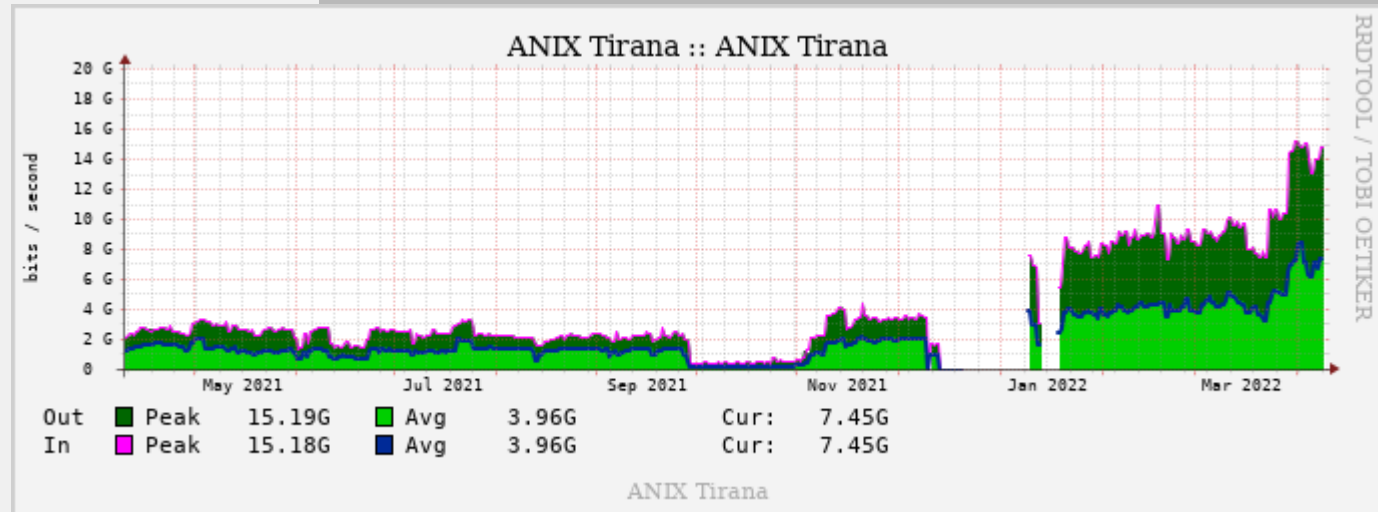
5 international players

Traffic grows to a peak of

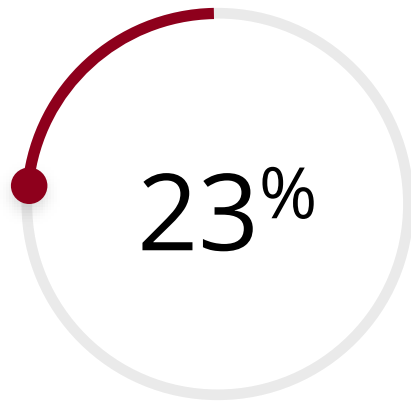
15 Gbps



ANIX Growth

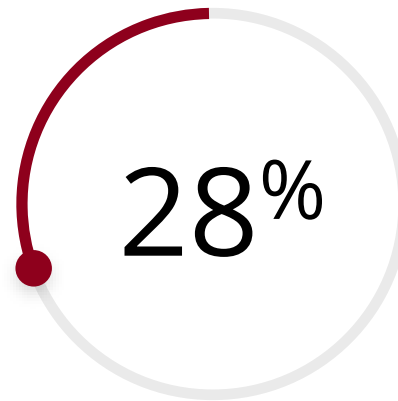


ANIX Key Numbers



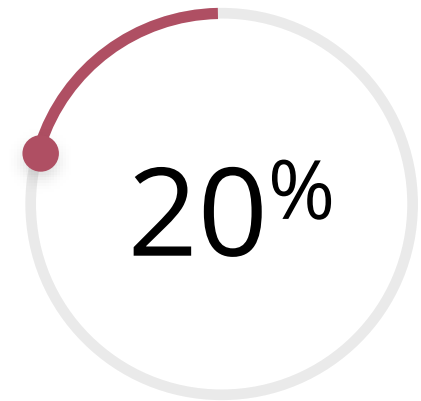
**Local traffic vs.
toward OTTs**

3.5 Gbps of 15 Gbps



**Coverage of Albania
& Kosovo ASNs**

28 ASNs covered / 88 (bgp.he.net)



**Coverage of Albania
& Kosovo Routes**

238 routes covered / 1216



NETFLIX



ANIX Now

PRO-BONO



Powered by Namex

Namex is managing all the aspects of the Internet Exchange



Housed at RASH

The Albanian Academic network provides its **neutral datacenter** in Tirana



Technical infrastructure

- Peering: NVIDIA EVPN/VXLAN based IP Fabric (2 spine + 2 leaf nodes)
- Services: OpenStack based hyper-convergence cluster (3 DELL nodes)
- Network aggregation/routing: FiberStore NS5860 + ARISTA 7280R
- PNI is possible between ANIX members

Supported by:





Ecosystem changes in progress

1

Fostering the development of local community

Organising and sponsoring local events

2

Lowering transit prices

Providing the opportunity for carriers to establish and provide transit at better rates

3

Bringing international players

Lowering cost & latency for local ISPs

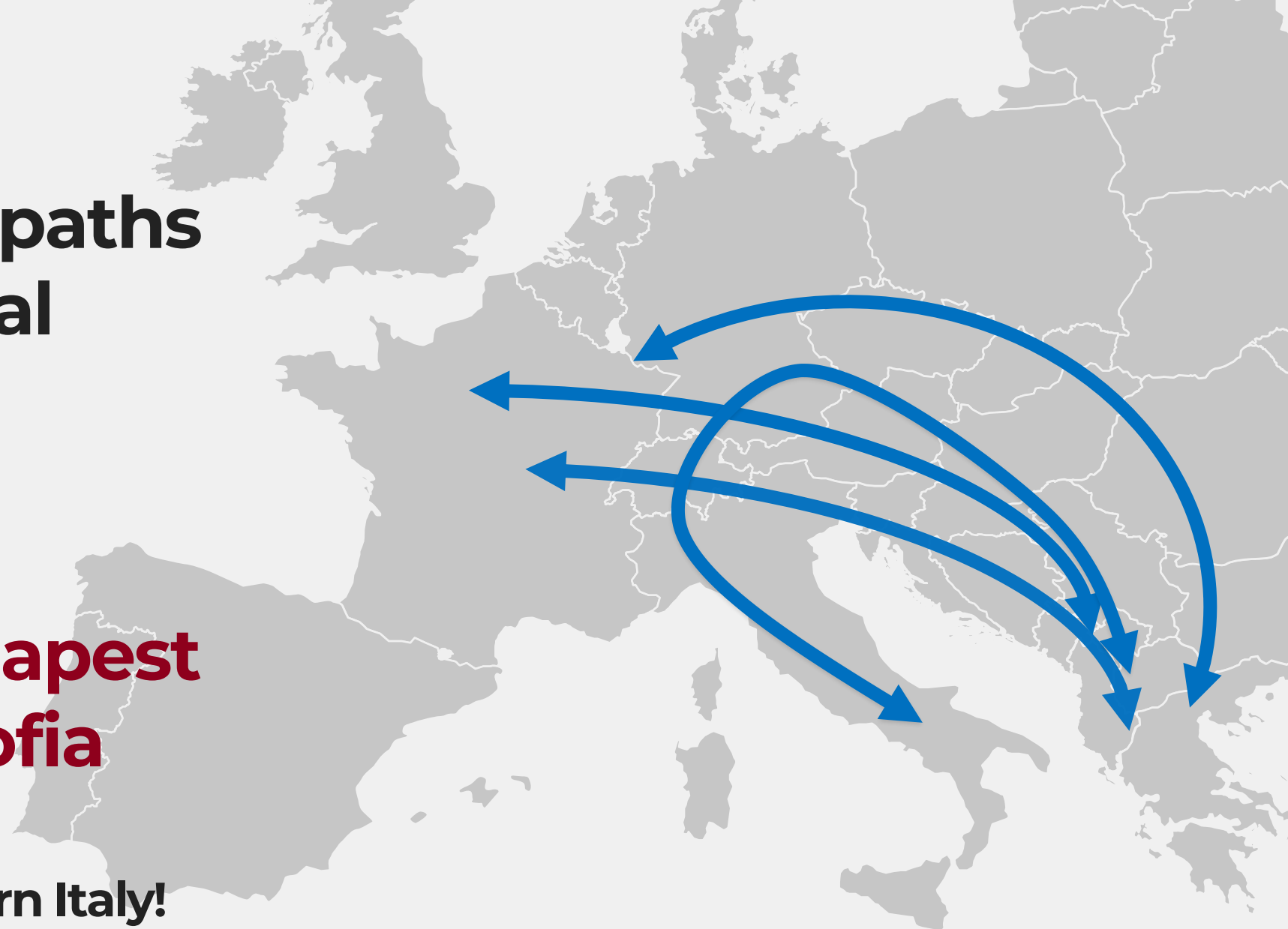
Zooming Out:

The Path Between Balkans and the rest of Europe

**Most of the paths
take a typical
route:**

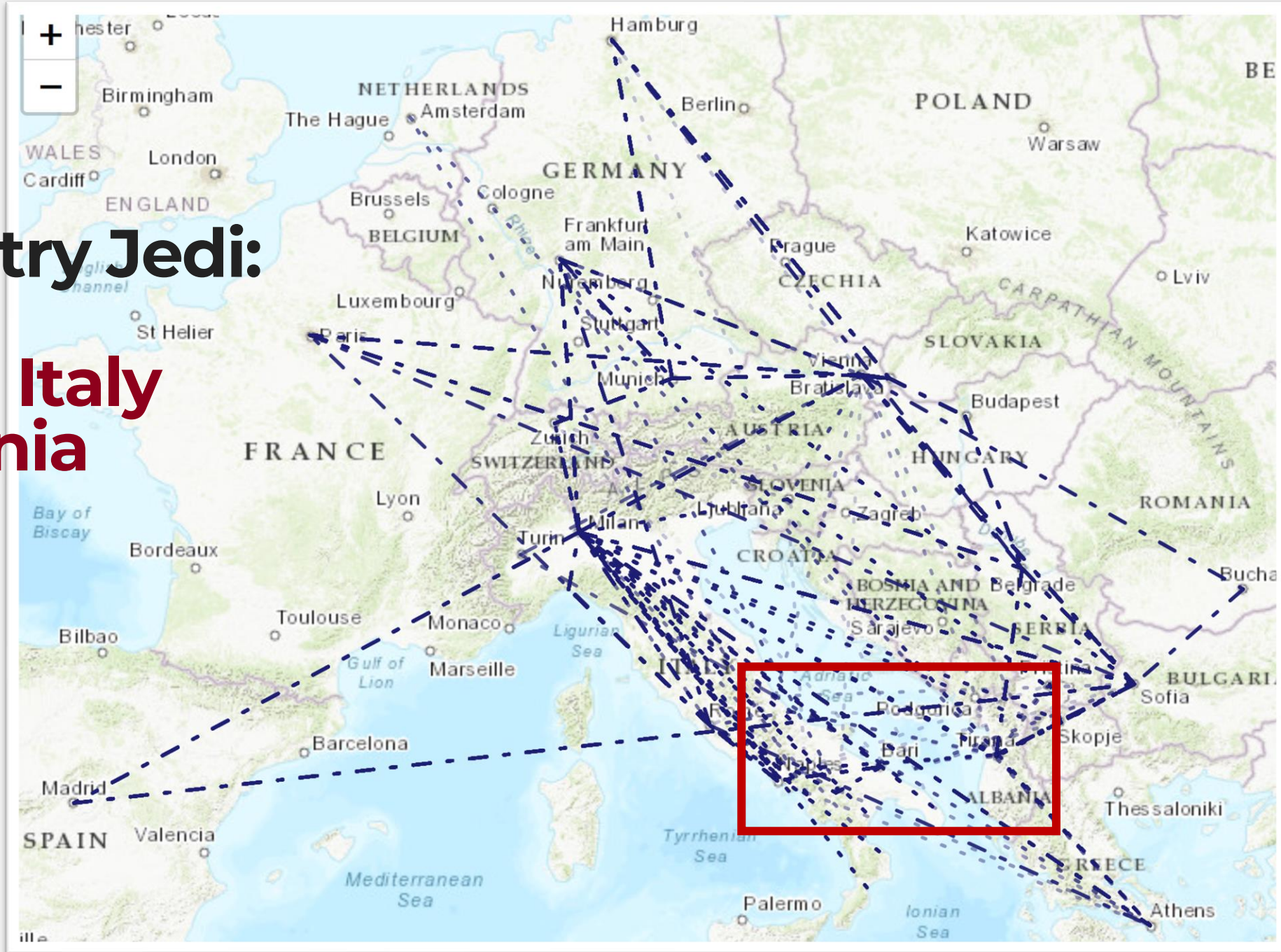
**Frankfurt
Vienna/Budapest
Belgrade/Sofia**

Even from Southern Italy!



IXP Country Jedi: Between Southern Italy and Albania

ANIX Update
RIPE SEE10, Ljubljana 12/04/2022



**Growing desire to
have an additional
(alternative) path:**

Across the Adriatic



Submarine Cable Status



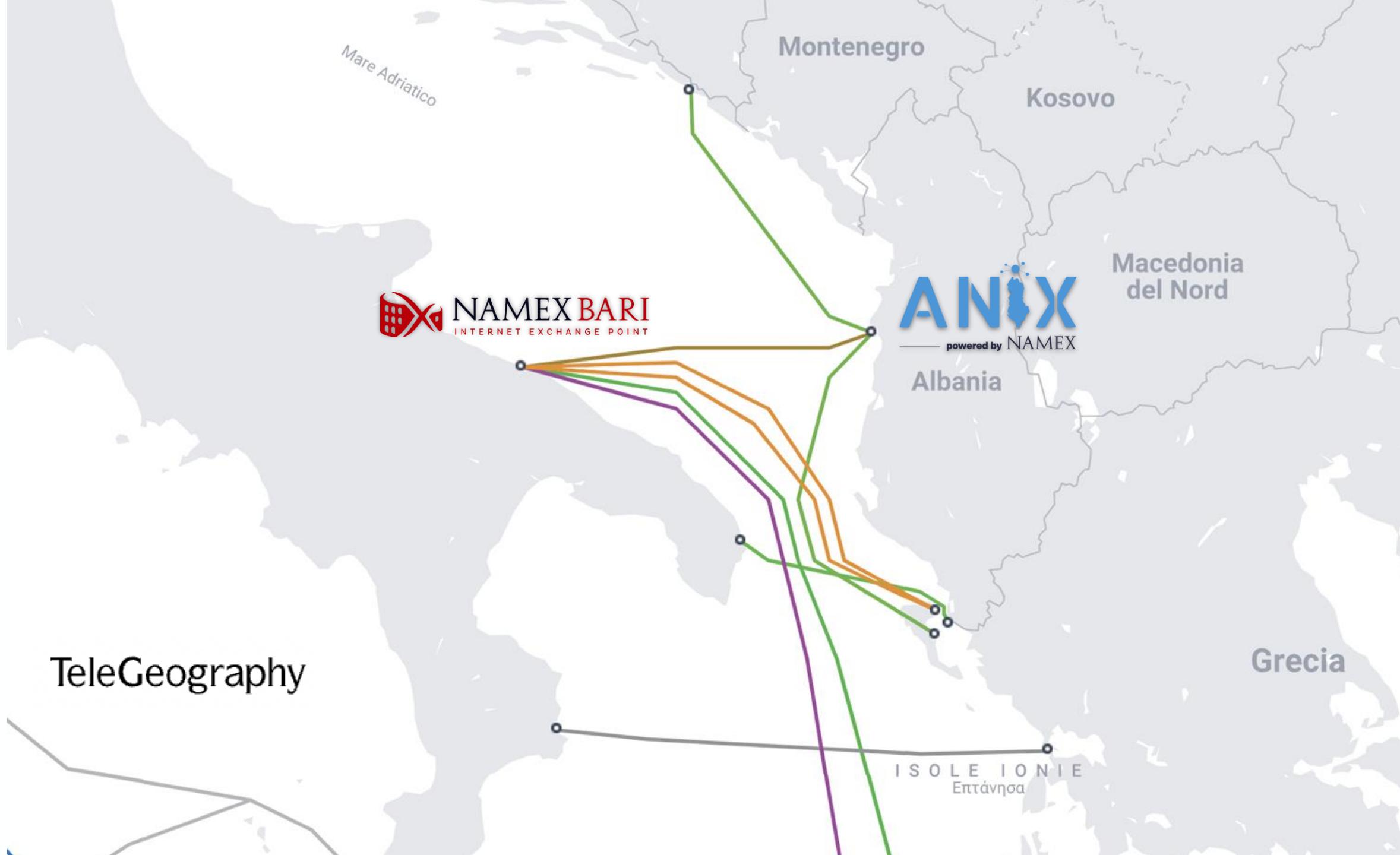
NAMEX Bari

100 sqm (40 racks)

- Ready at the end of April
- Catering to local operators and international players
- Puglia has a population of 4 million people
- Bari is South-Eastern Europe ;-)
- <https://bari.namex.it/>

NAMEX Roma





TeleGeography

ANIX
powered by NAMEX

NAMEX BARI
INTERNET EXCHANGE POINT

ISOLE IONIE
Επτάνησα

Q&A

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