

Puglia - Salice Salentino - 7 Aprile 2022



# Namex Bari

Un IXP  
regionale che  
guarda al  
Mediterraneo



Maurizio Goretti - Direttore Generale

# Di cosa parliamo

- **NomeX**
- **Perchè un IXP in Puglia**
- **NomeX Bari**



## A new regional Internet exchange point

National and international, a dual vocation that will make NameX Bari a crucial connecting point of the ICT roads, improving the quality of Internet access in the region, linking Bari and the national networks with the countries of the Mediterranean basin, Middle East and Asia.

Built with the aim of providing a point of interconnection between the Internet Service Providers (ISP) enabling the access and the content providers in order to improve the resilience of the Italian and international Internet, NameX Bari will contribute to reduce the latency towards the contents for the

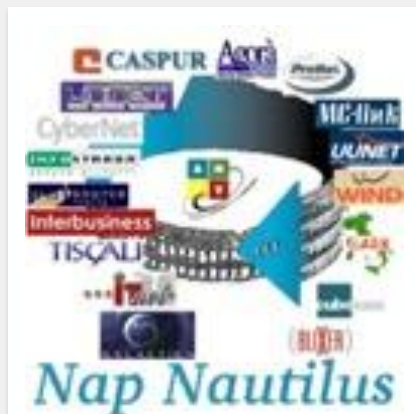
# The Beginnings



Established in 1995 inside a (neutral) University Consortium DC in Rome



Different names, same people (person, actually)



Volunteer based until 2001



NaMeX (Nautilus Mediterranean Exchange Point) created in 2001 as non-profit, member-based consortium



In 2017 we changed our logo to clearly show the location of our IX

# 2022 - 186 Connected Networks

## CONTENT PROVIDERS



NETFLIX  
amazon  
Akamai  
Google  
Microsoft  
CLOUDFLARE  
f  
aruba.it

## INTERNATIONAL OPERATORS



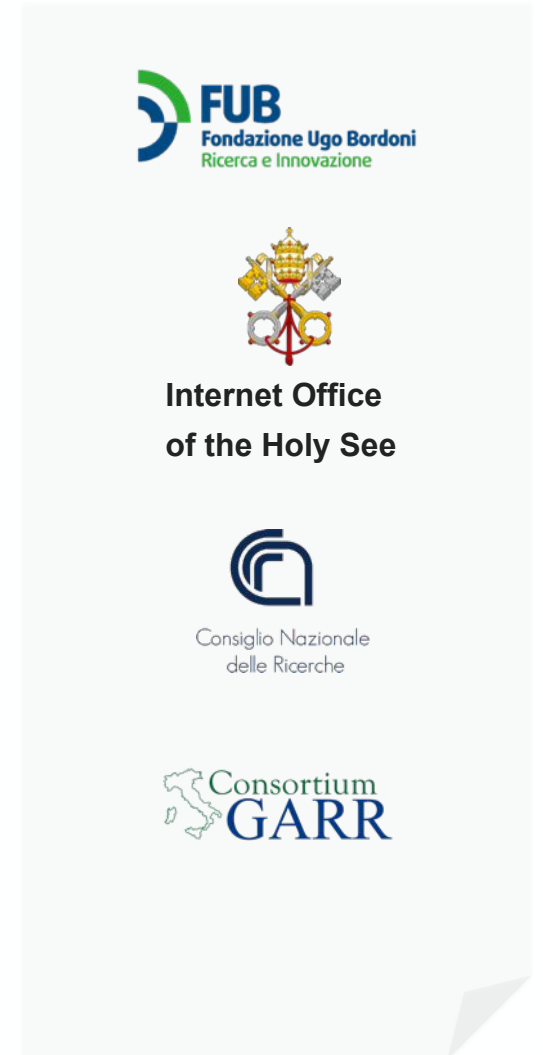
cogent  
HE HURRICANE ELECTRIC  
INTERNET SERVICES  
colt  
BT  
Telia  
Carrier  
中国电信  
CHINA TELECOM  
vodafone

## NAZIONAL ISP



linkem  
eolo  
TIM  
WINDTRE  
RETELIT  
IT GATE  
The best way to carry IP  
Convergenze  
FT FiberTelecom  
The Network Partner  
Fontel  
TISCALI  
FASTWEB  
UNIDATA  
IRIDEOS

## INSTITUTIONS, AGENCIES, RESEARCH



FUB  
Fondazione Ugo Bordon  
Ricerca e Innovazione  
Internet Office  
of the Holy See  
Consiglio Nazionale  
delle Ricerche  
Consortium  
GARR

# Member based

- Namex è un consorzio
- Ogni ISP vale 1
- 140 consorziati
- Senza fini di lucro

L'obiettivo primario è fornire **servizi utili**

# School of **Advanced Networking**

FORMAZIONE PER GLI ISP FATTA DAGLI ISP

Nel 2021:

SONO APERTE LE PREISCRIZIONI PER IL CORSO:

## INTRODUZIONE AL ROUTING MULTICAST

15-16-17 DICEMBRE 2021

REIS BONOLI | NAMEX  
ROMA INTERNET EXCHANGE POINT | [school.namex.it](http://school.namex.it)



**Formati più di 321  
partecipanti**



**18 Corsi GRATUITI  
programmati di 3 giorni  
(15/20 partecipanti)**



**Ulteriori edizioni**



**Più di 50 certificati (Open  
Badge) rilasciati dopo  
esame fine corso**



NAMEX

ROMA INTERNET EXCHANGE POINT



22 June 2022

# NAMEX ANNUAL MEETING 2022



# NomeX supports

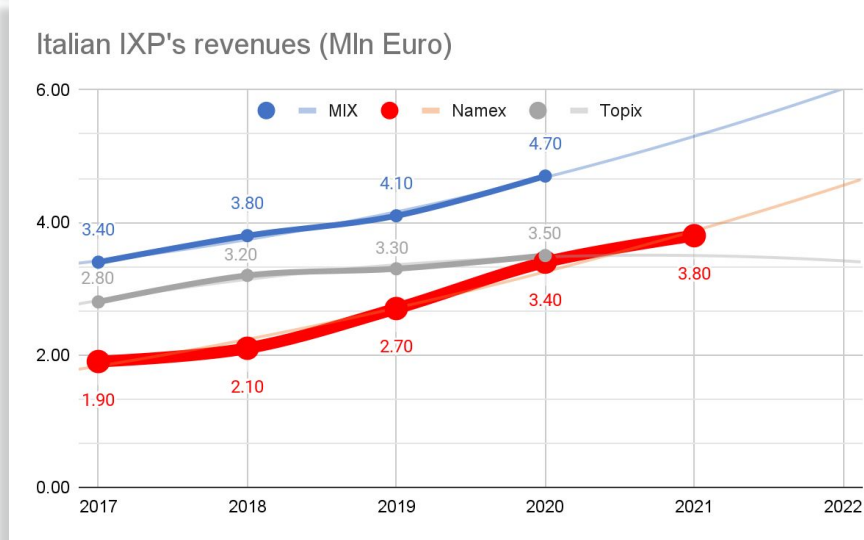
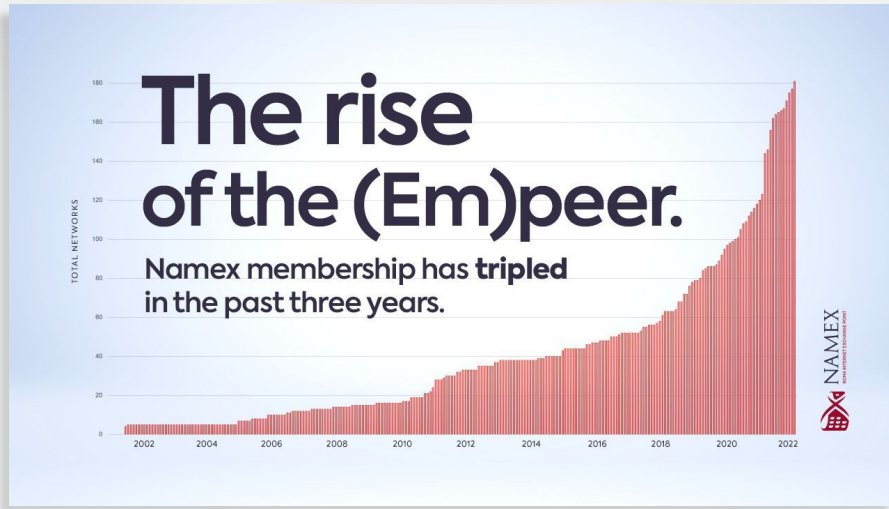
NomeX è felice di supportare diversi progetti per il bene della community di Internet

- **ANIX**  
The Albanian Neutral Internet Exchange
- **OpenBGPD**  
Emergent Route server project
- **BIRD**  
Leader Router server project
- **IXP Manager**  
IXP member portal project

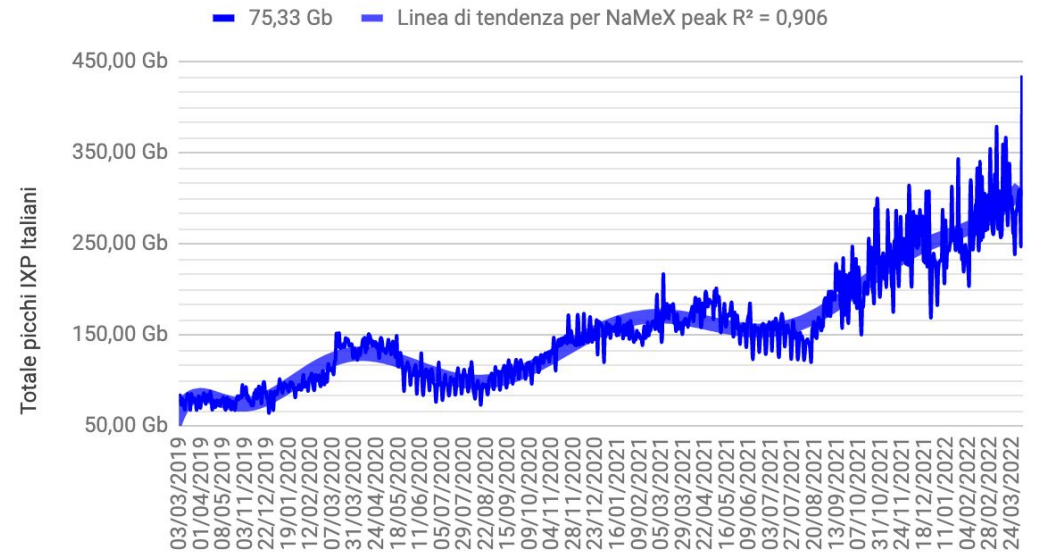




# The Roman Em(peer)



## NaMeX peak



# L'interconnessione a Roma sta crescendo

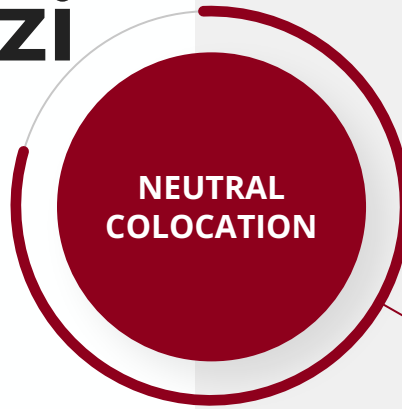
Roma ha una importanza crescente per l'interconnessione dei Content Provider con gli Access Provider

I contenuti devono essere vicini agli utenti finali

L'Italia è stretta e lunga (più di 10 ms) ed i Content Provider devono collegarsi a Roma per coprire il Centro Sud Italia.



# Catalogo servizi



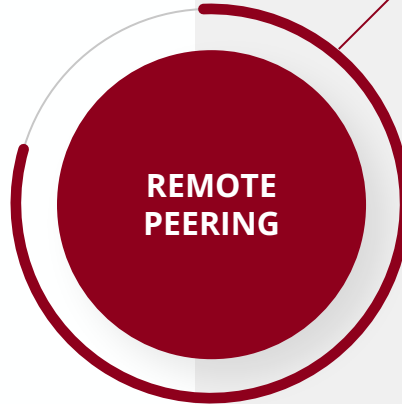
Space & power

Meet me

Remote hands



Remote IXP



Remote Aggregation



160  
Rack in  
colocation

1000+  
Interconnessioni di  
rete private



# Roman DC Environment



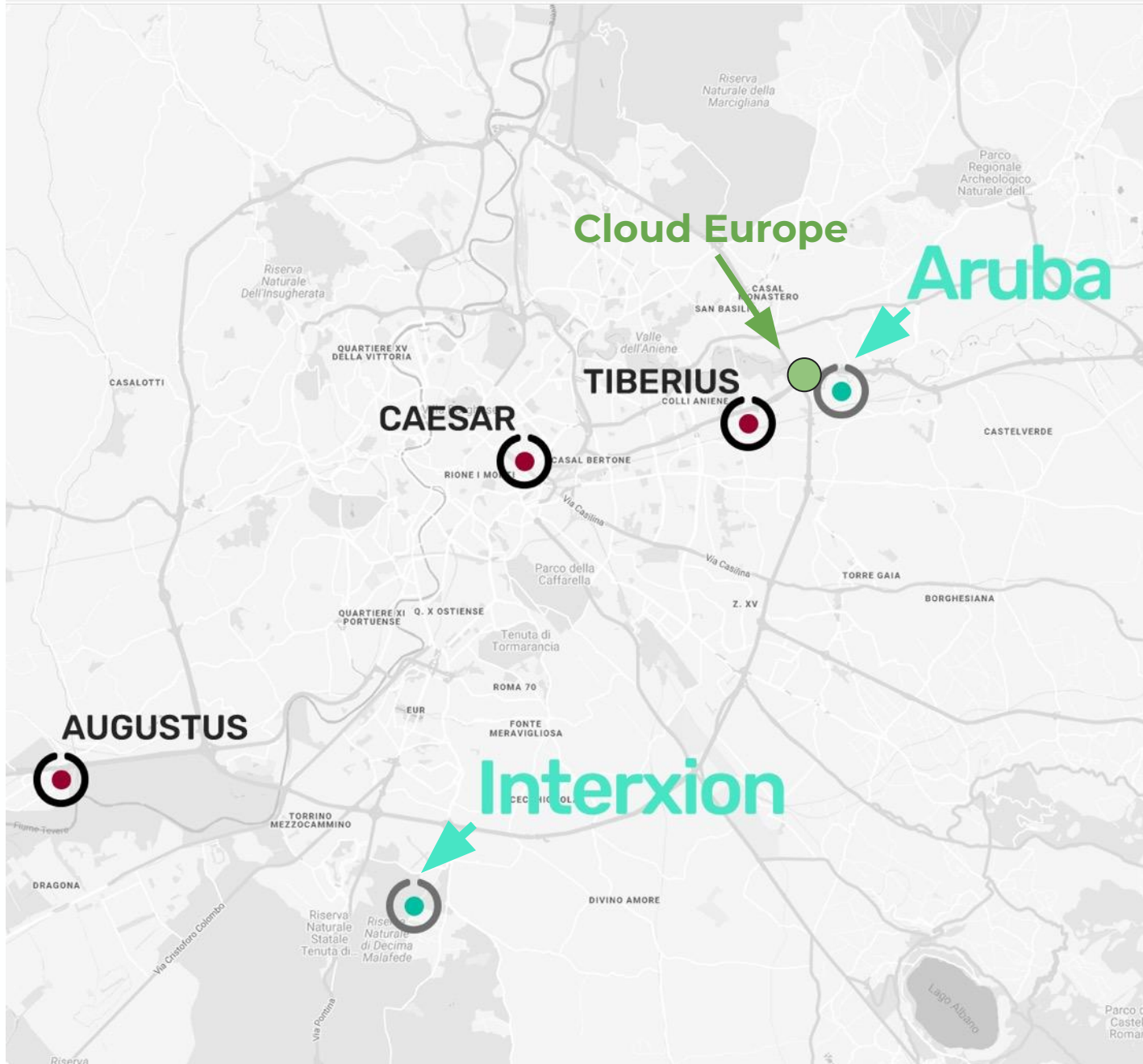
CAESAR | CINECA

TIBERIUS | interxion™

AUGUSTUS | UNIDATA



FT Winery Tour - Puglia  
7 Aprile 2022



# Nel futuro due nuovi grandi Datacenter a Roma

## Aruba Hypercloud

Tecnopolo

30.000 mq – 30 MWatt

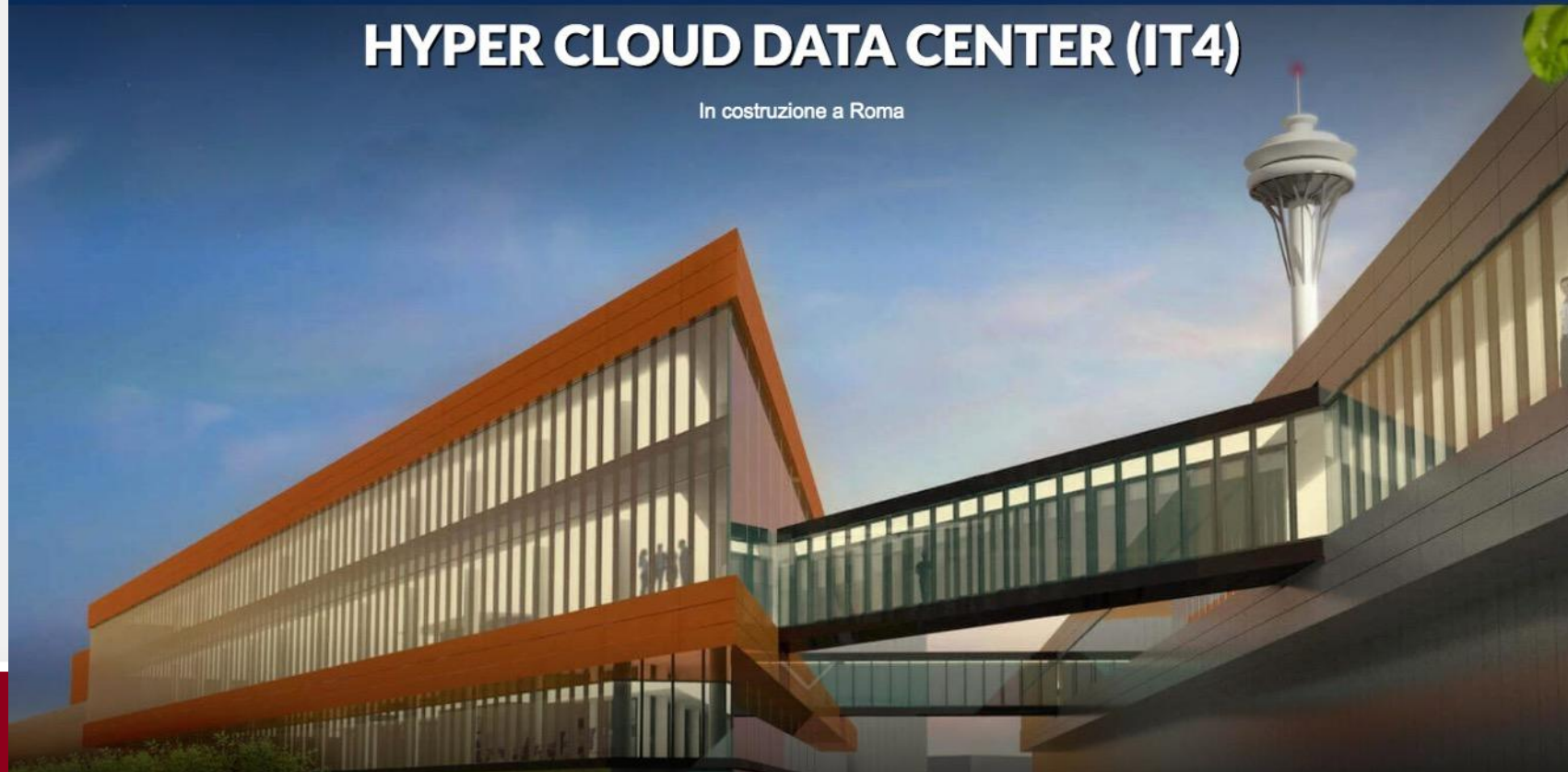
## Datacenter Interxion

Trigoria - Campus Biomedico

16.000 mq – 32 MWatt

# HYPER CLOUD DATA CENTER (IT4)

In costruzione a Roma



## Aruba Data Center in Rome

aruba.it



# Interxion Data Center in Rome

**interxion™**

- “Interxion Fast Track” 6 months
- 4.000 sqm
- 3 + 3 MW
- RFS: 2st Half 2021



# Gli IXP in Italia







# Namex Bari is born.

A new Namex Internet  
exchange point for the South.

[bari.namex.it](http://bari.namex.it) →

The graphic features a map of Italy with a red dot in the southern region indicating the location of the new Namex Bari Internet Exchange Point. A dashed line connects this point to another red dot in the northern region, representing the existing Namex Roma IXP. Two curved red lines represent network connections: one labeled 'Italy-Greece-1 (IG-1)' and another labeled 'Asia-Africa-Europe-1 (AAE-1)'. The Namex Bari logo, consisting of a stylized red building icon and the text 'NAMEX BARI INTERNET EXCHANGE POINT', is positioned to the right of the map.

# Perchè un IXP in Puglia?

1. Lontano da altri IXP
2. Contenuti verso l'edge
3. Gli operatori locali
4. Gli operatori nazionali
5. I content, gli OTT, gli internazionali
6. I cavi sottomarini



# Gli operatori locali

La regione ha un elevato numero di ISP:

- 27 in Puglia
- 9 in Basilicata
- 9 in Molise
- 19 in Calabria

# Gli operatori locali

L'obiettivo è fornire un servizio **utile**:

- Fornire un DC “Carrier grade”
- Creare un Marketplace Wholesale
- Portare content provider





# Gli operatori nazionali

- Opportunità per gli ISP wholesale
- Gli ISP “aspiranti” nazionali sono interessati ad un POP per chiudere un anello





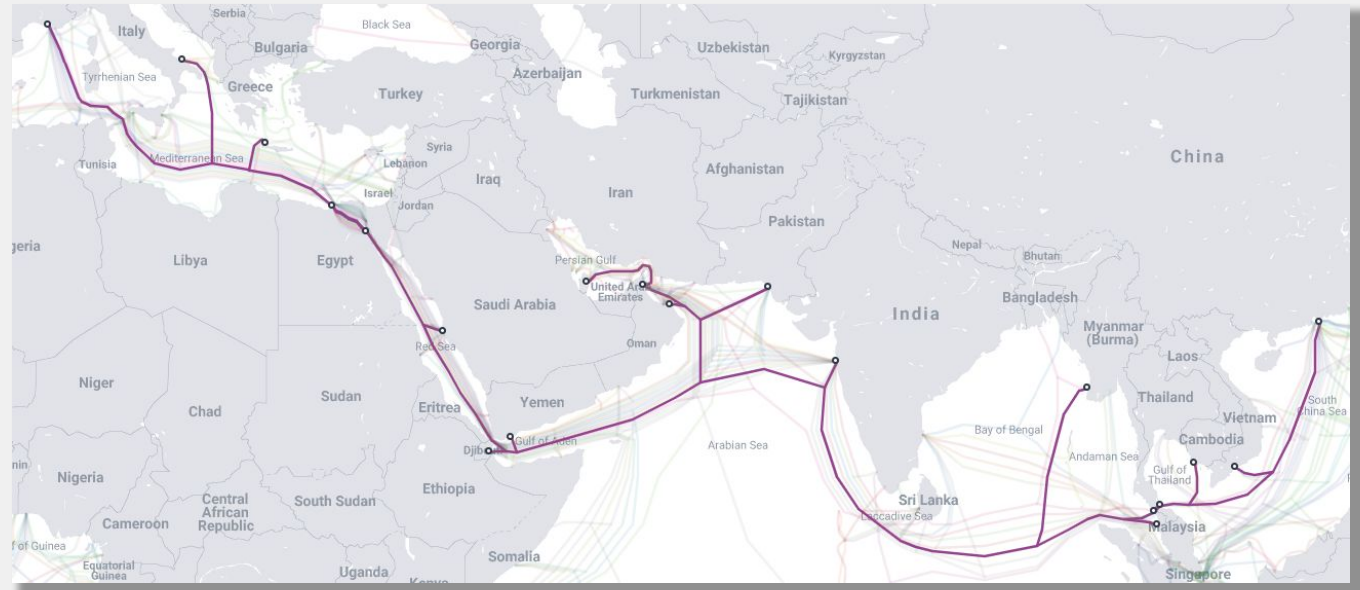
# Content, OTT, Carrier Internazionali

- OTT e Content verso l'edge peering
  - Latenza
  - Ridondanza
- Carrier Internazionali
  - Massa critica ISP locali



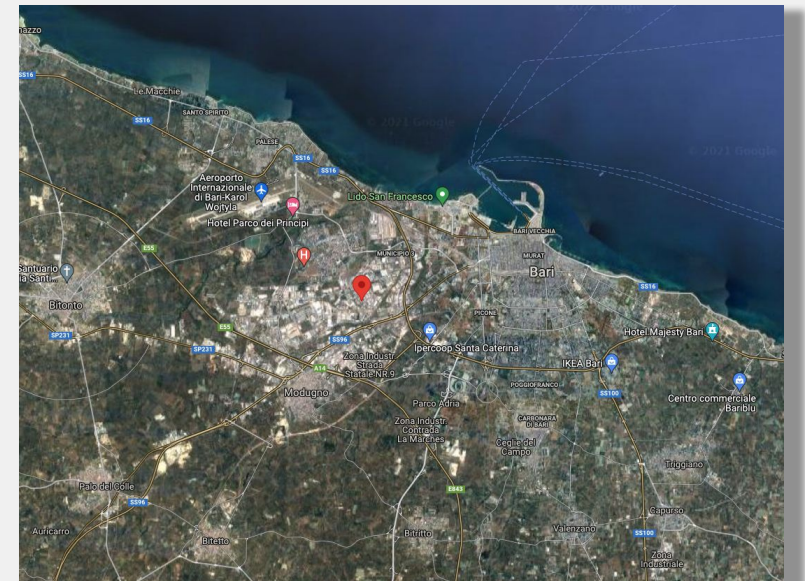
# Submarine Cables

- **AAE-1:** intercontinental cable (Retelit is one of the owner)
  - Marsiglia (Francia), Creta (Grecia), Canale di Suez (Egitto), (Arabia Saudita), (Gibuti), (Yemen), (Oman), (UAE), (Qatar), (Pakistan), (India), (Myanmar), (Malesia), (Tailandia), (Cambogia), (Vietnam), (Cina)
- Italy – Albania (AlbTelecom / TIS)
- Jonah (Bezeq International Ltd)
- Oteblobe Kokkinni-Bari (built for the Athens Olympics by OTEglobe)
- Italy – Greece 1 (Otranto – Grecia owned by WIS Telecom)



# NomeX Bari

- A new NameX regional Datacenter
  - Viale Donato De Leonardis 19, 70132 Zona industriale BA (ex DC Vodafone) - [Maps](#)
- Opportunities:
  - The first Carrier Neutral datacenter in Bari
  - Content closer to end users / easier access for local ISPs to CDNs
  - Direct access to Asia Africa Europe-1 (AAE-1)





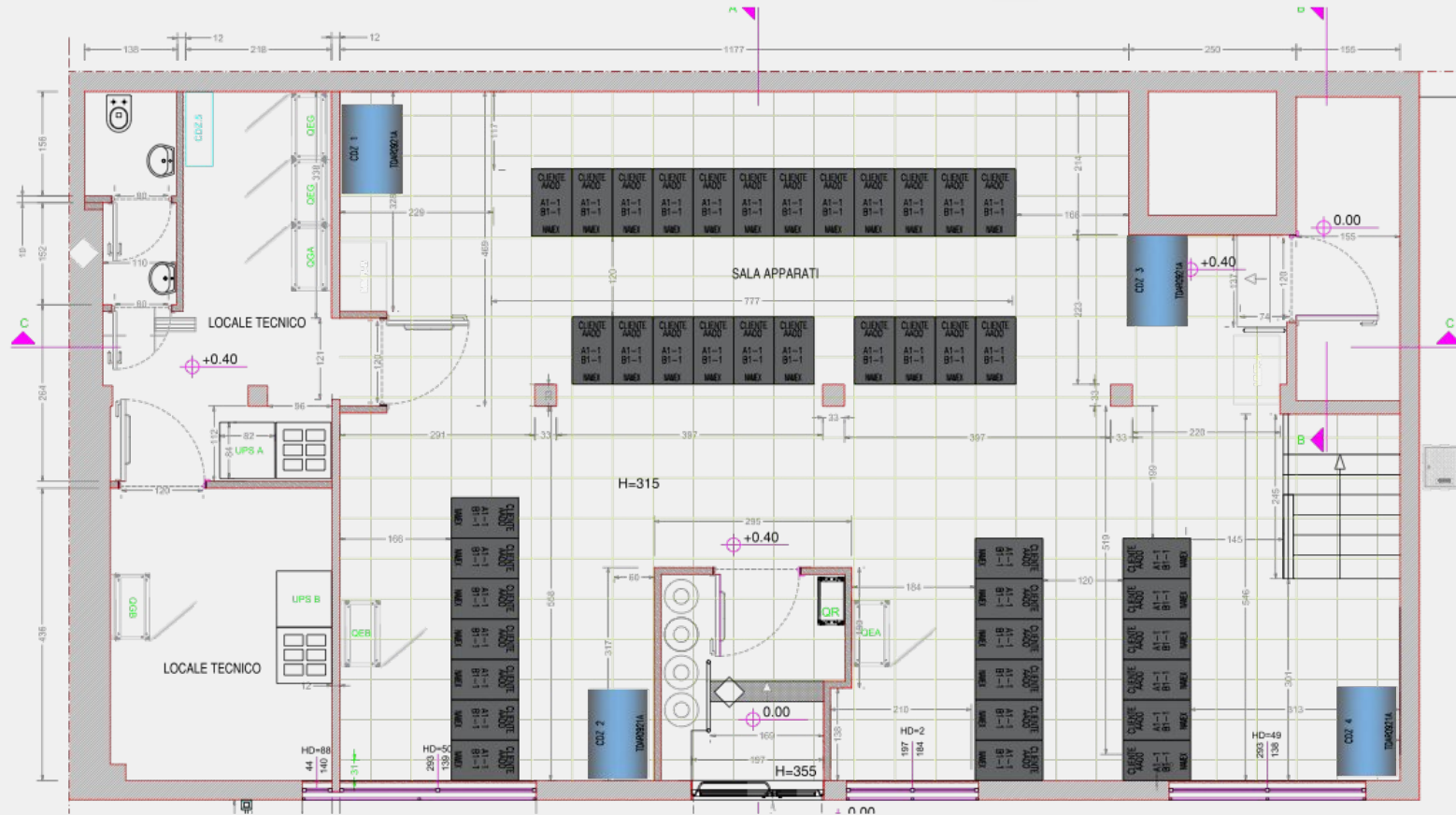
# NomeX Bari - Datacenter

- Basic facilities:
  - General Electrical Switchboards
  - Air Cableways
  - 1 Power Generator 130kW Ausonia
  - 4 CDZ UNIFLAIR (28kWf)
- Activities on the way:
  - UPS
  - Electrical switchboards
  - Fire Extinguishing System
  - Anti-intrusion system
  - Environmental / Systems alerting



# Namex Bari - Project

- 100 sqm / 40 racks



# Namex Bari - Ecosystem

- TIM / Fastweb / Wind / Retelit / Irideos
- More than 50 local ISPs from Puglia (22), Molise (7), Calabria (17), Basilicata (9)
- Engagement activities
  - Attract CDNs / CPs
  - Opportunity for National carriers to access the AAE-1 cable
  - Critical mass of local ISPs



# Namex Bari

Lavori verso il completamento  
Pronti entro Aprile  
4 Maggio visita



FT Winery Tour - Puglia  
7 Aprile 2022

Committente:  
**NAMEX**  
ROMA Internet exchange Point

Oggetto:  
Interventi di adeguamento tecnologico "STEP 1"  
Nuovo sede "NAMEX" destinata ad uso "CED"  
Via Donato De Leonardis 16 - Bari

IMPRESA ESECUTRICE:

PRODOTTORE:

**PROGETTO ESECUTIVO**  
Layout nuova distribuzione F.M. - Ante/Post Operam - STEP 1

PROGETTO	COMPLETATO	INIZIATO	IN ATTESA	IN SOSPENSIONE	IN SOSPENSIONE	IN SOSPENSIONE	IN SOSPENSIONE
1	1	6	2	1	0	0	5

02 19.01.2022

EMISSIONE PROGETTO





San Matteo

SANTO SPIRITO

PALESE

Aeroporto Internazionale di Bari-Karol Wojtyła

MARONE

Landing station TIM

BARI VECCHIA

Bari

SAN PAOLO MUNICIPIO 3

Zona POP Windriale

Namex Bari

PICONE

Zona Industr. Strada Statale NR.9

Modugno

Landing Station Exa

POGGIOFRANCO

Landing station Retelit

San Giorgio

Torre A Mare

Zona Industr. Contrada La Marches

Ceglie del Campo

Parco Scizzo-parchitello

Triggiano

Capurso

Valenzano

NAMEX BARI PROMO PACK 2022

NAMEX BARI INTERNET EXCHANGE POINT

Join us before September 30th and enjoy our Welcome package.

**FREE**  
1/8 Rack + 1G port + MPO + Interconnects

[bari.namex.it](http://bari.namex.it) →

del Colle

Pitritto





TeleGeography

# Anix (powered by Namex)

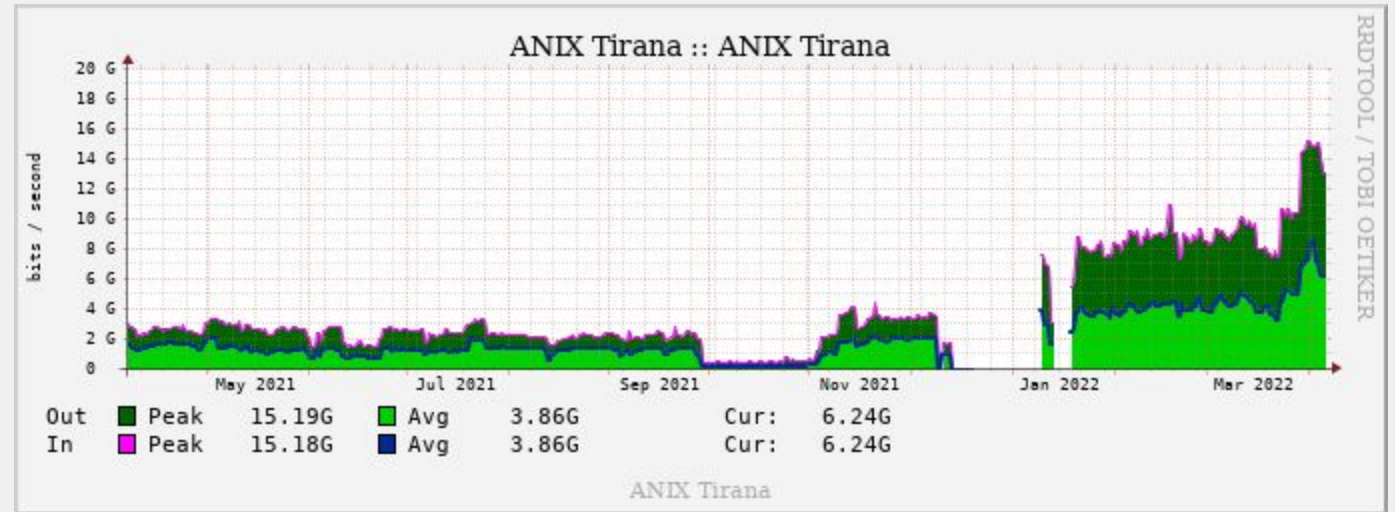
## ANIX:

Facebook

Hurricane Electric

Netflix

15 ASs collegati



Trattative con RASH per stipula contratto o creazione società





TeleGeography

**ANIX**  
powered by NAMEX

**NAMEX BARI**  
INTERNET EXCHANGE POINT

ISOLE IONIE  
Επτάνησα

# Conclusioni

- Uniti (il consorzio) si cresce!
- Gli IXP regionali possono essere una buona opportunità (se usati adeguatamente)
- Bari è (quasi) pronta
- **NA**utilus **ME**diterranean **eX**change point forse era un presagio! :-)



# Grazie a Fiber Telecom!

(W il rosato Pugliese!)

Or contact me later

**Maurizio Goretti**

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✉ [m.goretti@namex.it](mailto:m.goretti@namex.it)