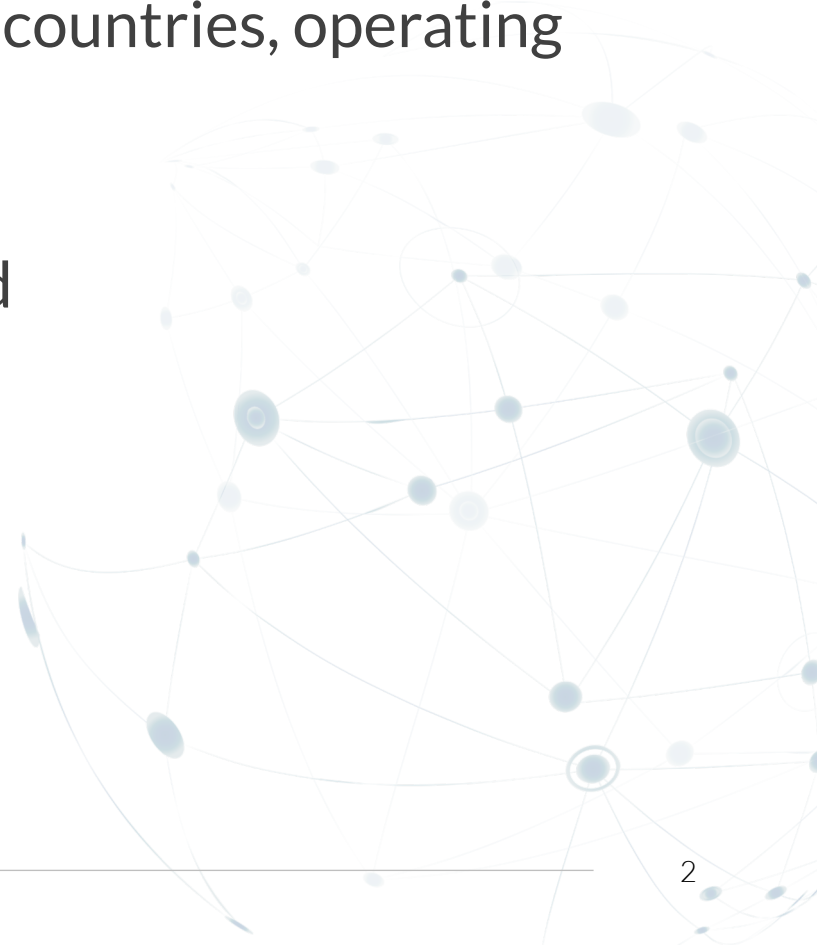# euro-IX

IXPDB

ENOG 15
Rebecca Class-Peter

Association of IXPs

81 affiliated members

➢ 57 IXPs in the Euro-IX region, 49 countries, operating over 100 peering LANs

➢24 IXPs from the rest of the world

➢ Newest members:
  ➢SAIX (Saudi Arabia)
  ➢CRIX (Cost Rica)

Euro-IX Patrons
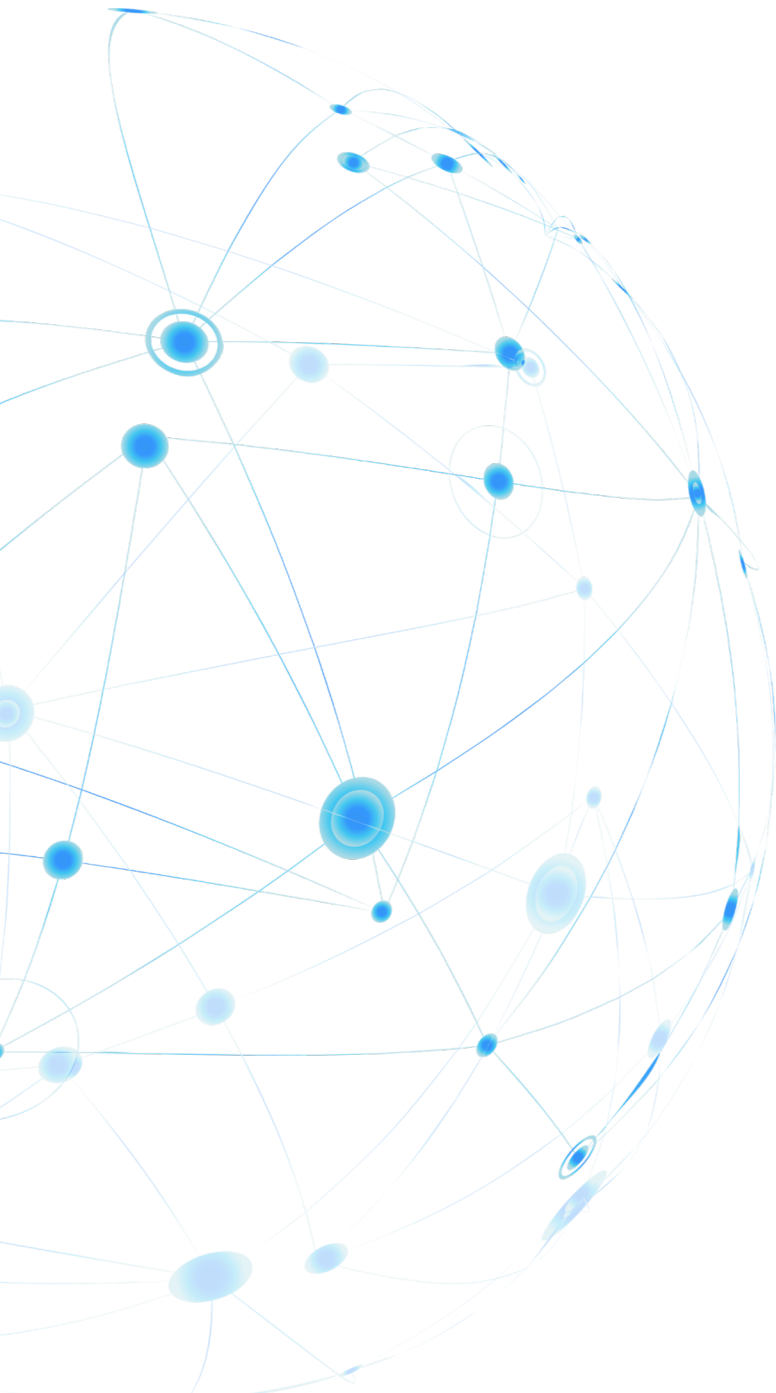
Euro-IX Activities

- 2 Fora a year
  - 32nd in Galway hosted by INEX
  - 33rd in Venice hosted by NAMEX, TOP-IX and VSIX (November 2018)
- Website and Database
- Fellowship and Mentor-IX Program
- Mailing lists – for members and non-members
- Reports – Benchmarking, traffic, hardware, Route Servers
- Newsletters - https://www.euro-ix.net/en/communications/newsletters/
- Route Server large BGP communities list: https://www.euro-ix.net/en/forixps/large-bgp-communities/
- Social media
  - Twitter @euroix
  - Facebook fb.me/maineuroix
  - Youtube youtube.com/channel/UCFyucVRAAMzxyJIsxnGwsjw

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IXPDB an IX-F Project

Introduction to the Internet eXchange Federation

IX-F is an organisation for coordinating the efforts of Internet eXchange Points Associations (IXPAs).

Membership includes:

- AFIX – African Internet eXchange Point Association
- APIX – Asia Internet eXchange Point Association
- Euro-IX – European Internet eXchange Point Association
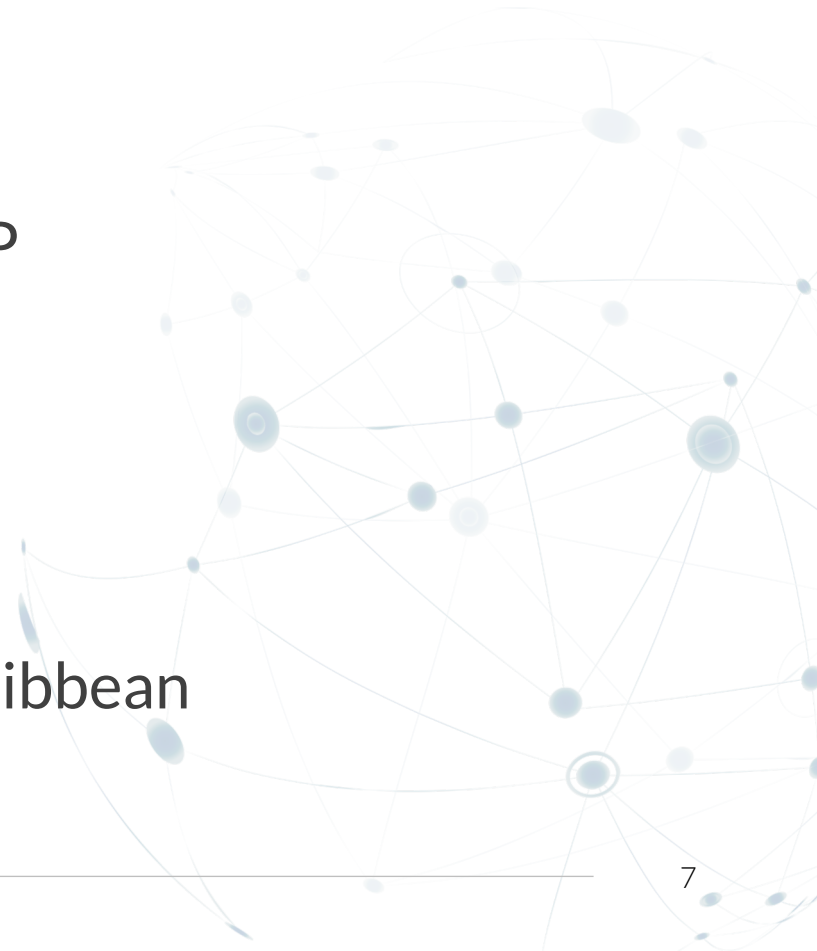- LAC-IX – Latin America & Caribbean Internet eXchange Point Association

Collectively these IXPAs represent over 145 IXPs across 6 continents

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IX-F Board

The IX-F Board consists of two representatives from each IXPA:

AFIX   Nishal Goburdhan, JINX
          Kyle Spencer, UIXP

APIX   Katsuyasu Toyama, JPNAP
          Gavin Tweedie, Megaport

Euro-IX   Andy Davidson, Asteroid
          Ondrej Filip, NIX.CZ

LAC-IX   Ariel Graizer, CABASE
          Nico Scheper, AMS-IX Caribbean

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IX-F History and Objectives

History

- MoU signed between APIX, Euro-IX and LAC-IX in 2012
- AFIX joined in 2014

Objectives

- Address increasing policy and regulatory issues around the world
- Facilitate interaction between IXPs to address shared challenges and goals
- Provide a central resource for IXP related data, research and BCPs

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IXPDB – History

- IXPDB is new only by name, the "Euro-IX database" existed since 2001 when Euro-IX started

- With the formation of the IX-F it didn't make sense for each IXPA to have it's own database

- IXPs had no control over their data in PeeringDB ☹

- IX-F committed to build the IXPDB
  - 2014 Hackathon in Sheffield together with PeeringDB
  - Initial development contracted to 20c - PeeringDB developers
  - Now contracted to NIX.CZ

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IXPDB - Background

- A single repository for IXP data
  - Data on members (ASN, IPs, etc.)
  - IXP related data such as switch information

- IXPDB provides authoritative data
  - Published directly from the IXPs own databases

- Various databases could be used to verify and validate data against IXPDB
  - Send notification where discrepancies were seen

- Other databases could use the IXPDB as a sub-set

- The IXPDB is complimentary to other databases and has scope to further improve data quality to benefit the community.

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IXPDB – How does it work?

- The IX-F JSON Schema export is an agreed and standardized JSON schema which allows IXPs to make their member lists and other data available:

  https://github.com/euro-ix/json-schemas

- The IX-F export allows the individual IXP to be the source of data about their own IXP and it's exposure

- IXPs publish this data publicly, privately and via other systems like IXP Manager and Asteroid ❤️

- The IXPDB publishes a single API

- IXPAs holding workshops to support IXPs.

  By the end of June we'll have 110 IXP exports working!

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IXPDB – Where are we?

- Database / API is live
- Looking to integration with other databases
- IXPs can pick what level of exposure they want
- IXPAs can approve and create new IXPs
  - So can other admins
- Last updated field allows users to see when data was last updated
- Geo-location and maps – now available
- Aggregated vendor data at IXPs and participants – now available
- Compare IXP function
- Aggregated traffic data – coming soon!

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IX-F - IXPDB

- Website: http://ixpdb.net (work in progress)

- Mailing list for users:
    https://lists.euro-ix.net/mailman/listinfo/ixpdb

- API is available - https://api.ixpdb.net

- If you think this is good work, like we do, fund us ☺

    secretariat@ix-f.net

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Euro-IX Video

Short video about IXPs, available now in Russian, English, Italian, German, French, Spanish, Portuguese, Arabic, Mandarin, Romanian and Greek subtitles.

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Thank You!

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