



euro-IX

# Twinning

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# ➤ Twinning is Winning

- Netnod, twins with 3 IXPs – KINIX, KIXP and MOZ-IX
- DE-CIX, twins with 2 IXPs – NPIX and TIX
- LINX, twins with 1 IXP - ZIXP
- INEX with support from ISOC recently helped build The Gambia IXP -> twinning, first stages of help:
  - Obtain IP addresses and ASN
  - IXP and BGP training
- France-IX and LyonIX working with ISOC on AXIS project, provide training in Francophone countries

# Twinning is Winning

## Why change what we have?

- We want to see growth and progress for the twins
  - We need defined goals so the twin IXP can become self-sustaining
  - We want the twins to feel part of the IXP Community
  - We want to encourage staff exchanges, trainings, attendance at Euro-IX forums
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# ➤ **Twinning is Winning**

- IXPs can help facilitate and increase peering
- Increased interconnects will benefit the internet ecosystem (especially in regions where there is not much peering)
- We want IXPs to succeed
- Startups and growing IXPs can learn from successful IXPs willing to share experiences
- Work with partners

# ➤ **Twinning is Winning**

## **2 stages identified**

- Stage 1: Normalisation
- Stage 2: Advance

# ➤ **Twinning is Winning**

**Stage 1**. Helping newly established Internet Exchanges Points with the following:

- Tools
- Framework for management and business development
- Assistance adhering to IX-F BCPs for IXP operations

# ➤ **Twining is Winning**

## **Stage 1- Measurable:**

- Working website, with contact details, members list and traffic stats if appropriate
- Verified contacts
- Support available in local languages for IXP participants
- Attendance to one Euro-IX forum a year
- Presentation of their success and or challenges
- Have a working set of management tools
- Updated IXPDB entry
- Bi-annual update to Euro-IX on twinning program

# ➤ **Twinning is Winning**

**Stage 2.** This IXP may be going into the next phase of development or may have run into some unexpected problems, the supporter is expected to support the following:

- Design and engineering help
- Marketing assistance
- Implementing additional services



# ➤ **Twinning is Winning**

## **Stage 2 – Measurable:**

- Independently host an IXP participant meeting
- Evaluate need for additional services e.g. reseller program, host a root server, offer MLP
- Be self sustaining
- Self fund attendance at IXPA meeting
- Be in a position to support future emerging exchanges
- Bi-annual update to Euro-IX on twinning program

# ➤ **Twinning is Winning**

## **Criteria for supporter:**

- Must be an established self sustaining IXP
- Keen to support the development and growth of IXPs

## **Criteria for Twin:**

- Have a named representative to liaise with the support IXP
- Be active in the IXP community, i.e. active in their local IXPA fora

# ➤ **Twinning is Winning**

## Why:

- We want any Euro-IX member to be able to become a supporter
- Staff exchange twin <-> supporter
- Attend one Euro-IX forum a year while in Twinning program
- Reports/updates from IXPs benefitting from program and updates from supporter on progress
- Growth and stability of twin IXP

# ➤ **Twinning is Winning**

## **Benefits:**

- Expose engineering to problems they may not find in their own environment
- Marketing and commercial kudos
- Use of standard documentation and training material
- Encourage IXPs to follow IX-F BCPs
- Make the internet faster and reliable in twins market
- Feel good factor, helping out because you can!

# ➤ **Twinning is Winning**

**We want to fund the program via donations, to cover:**

- Travel expenses for staff exchange and training
- IXPA forum attendance
- Logistics i.e. shipment of hardware

If you're interested in donating to the program or what to get involved, contact us – [secretariat@euro-ix.net](mailto:secretariat@euro-ix.net)

# ➤ The Internet Revealed – IXP Movie



Now available in English, French, Turkish, Spanish, Romanian, Portuguese, Arabic and German, check out our Youtube channel:

<https://www.youtube.com/channel/UCFyucVRAAMzxyJIsxnGwsjw>

=> more languages to come, if your interested in translating the video, contact us!



# Thank you!

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