

# IX Updates

Tracking Indian IX Ecosystem

# \$ whoami?

## Let Me Let You Know Me :P

- Network engineer for ~16 years
- Maintaining AS135817
- Developed IX Updates

I'm either pushing bits, or flipping bits, so in-between the bits all the time.

# What is IX Updates?

## Quick Facts

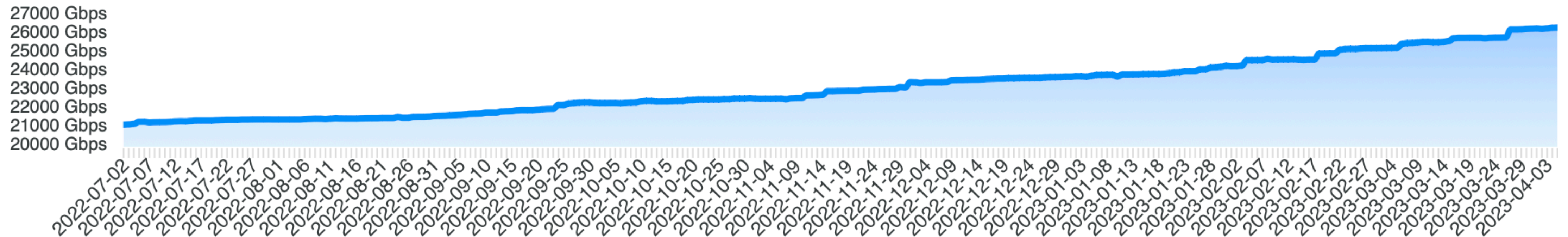
- Launched on 2nd July 2022
- Developed by myself
- Sourcing information from PeeringDB API
- Putting daily view of the ecosystem to persistent

# What is the objective of this project?

## Use Cases 1/n

- Keeps track of growth trends in the industry.
  - How fast the IXP ecosystem in India is growing (or declining for that matter)

### Capacity Trend



# What is the objective of this project?

## Use Cases 2/n

- Tells if one IXP, over certain period of time, is attracting more ASNs than the others.

In last 30 days

**8**  
network(s) joined

**0**  
Network(s) Left

NIXI Delhi

In last 30 days

**10**  
network(s) joined

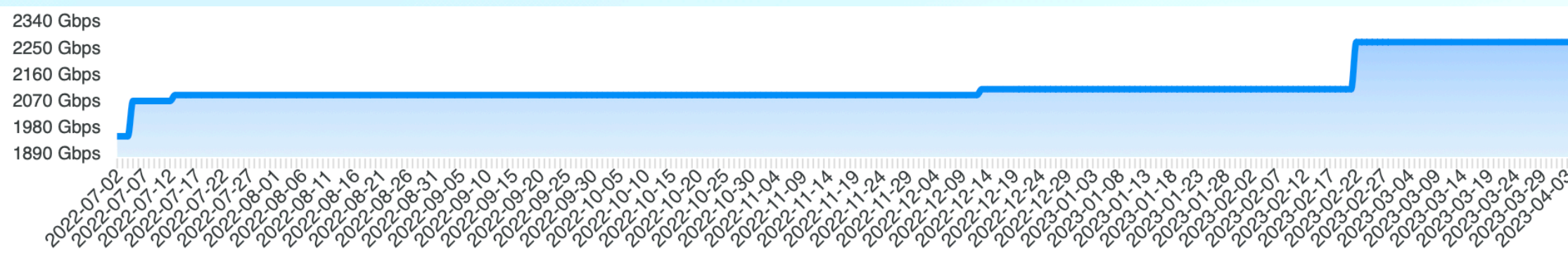
**4**  
Network(s) Left

Extreme-IX Delhi

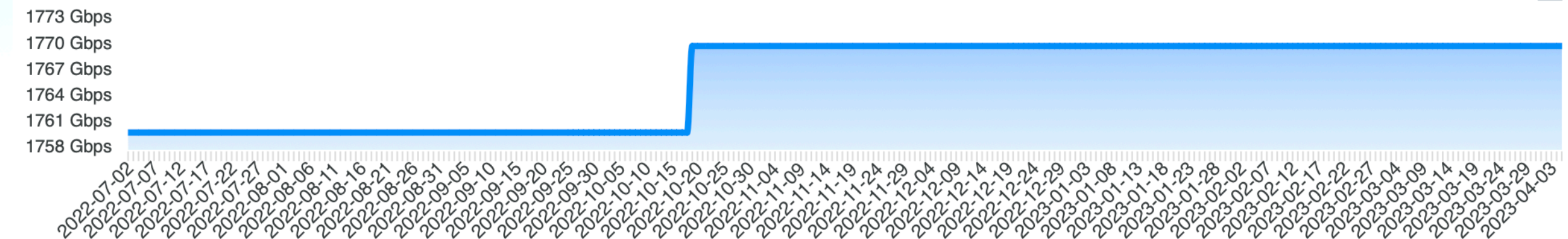
# What is the objective of this project?

## Use Cases 3/n

- Keeps track of how often a CDN (or any other asn) upgrades their capacity
  - Indicates their growth in the country in comparison to other networks.



Meta (AS32934)



Google (AS15169)

# What is the objective of this project?

## Use Cases 4/n

- Helps ISPs identify an exchange with maximum content available, at a glance

### Market share

**25.41%**  
of capacity

**31**  
CDNs

**425**  
ISPs

DE-CIX Mumbai

### Market share

**20.29%**  
of capacity

**25**  
CDNs

**194**  
ISPs

Extreme-IX Mumbai

# Where IXPs are present?

## Facilities

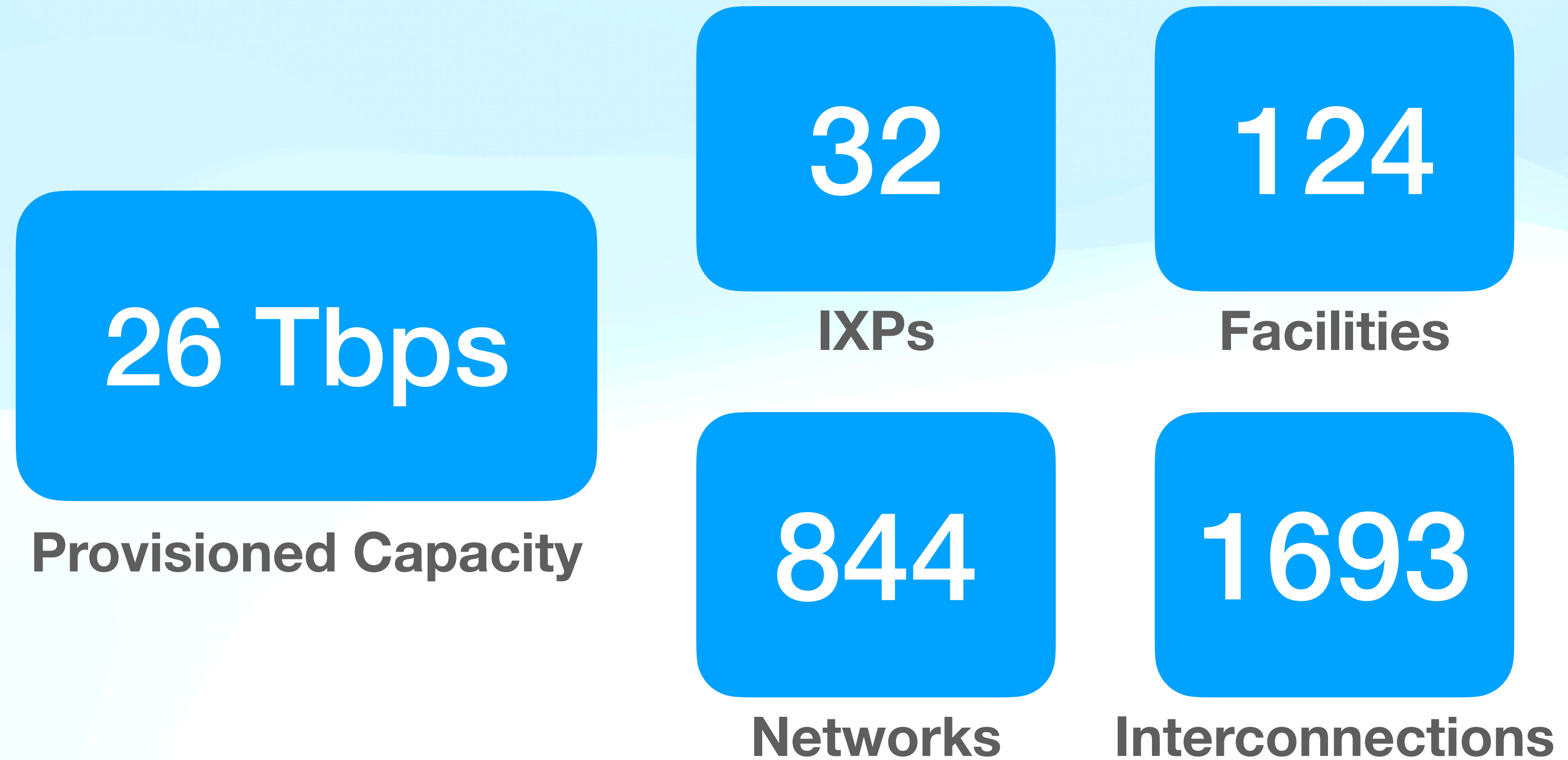
124 facilities  
spread over  
23 cities



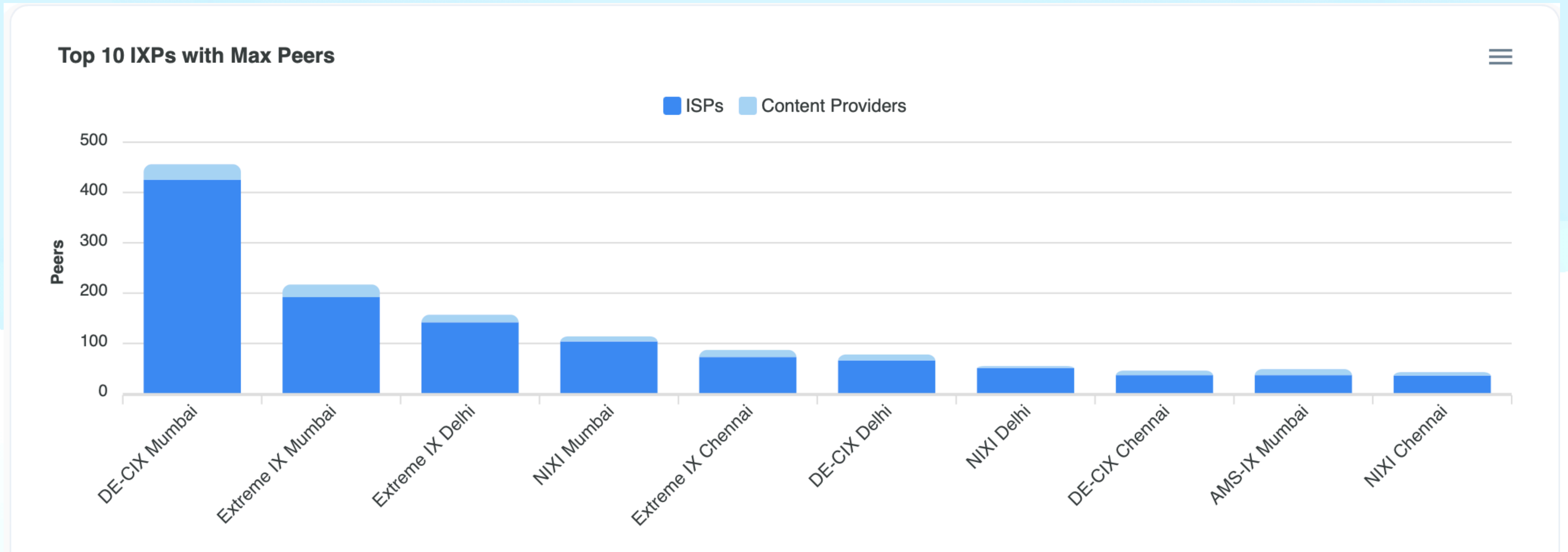


# How Large is the Ecosystem?

## Present State

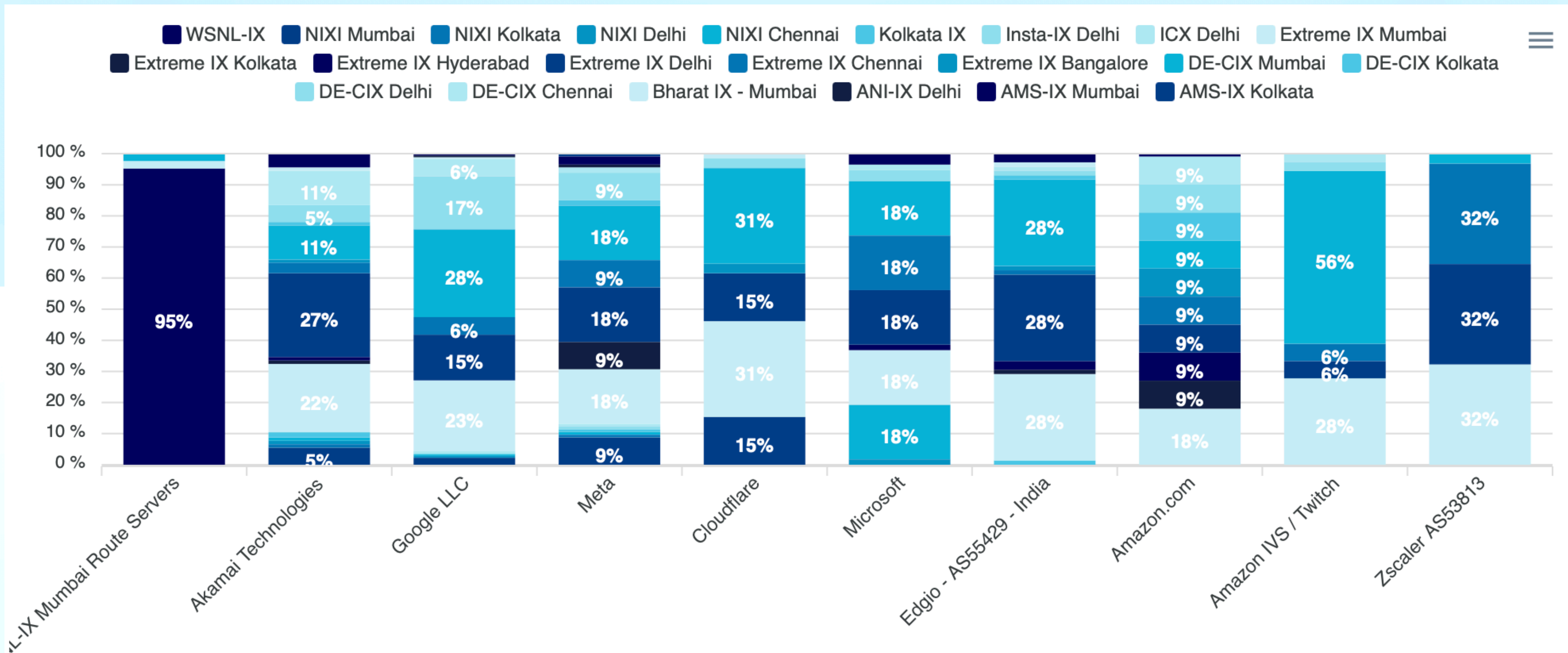


# Top 10 IXPs by number of peers



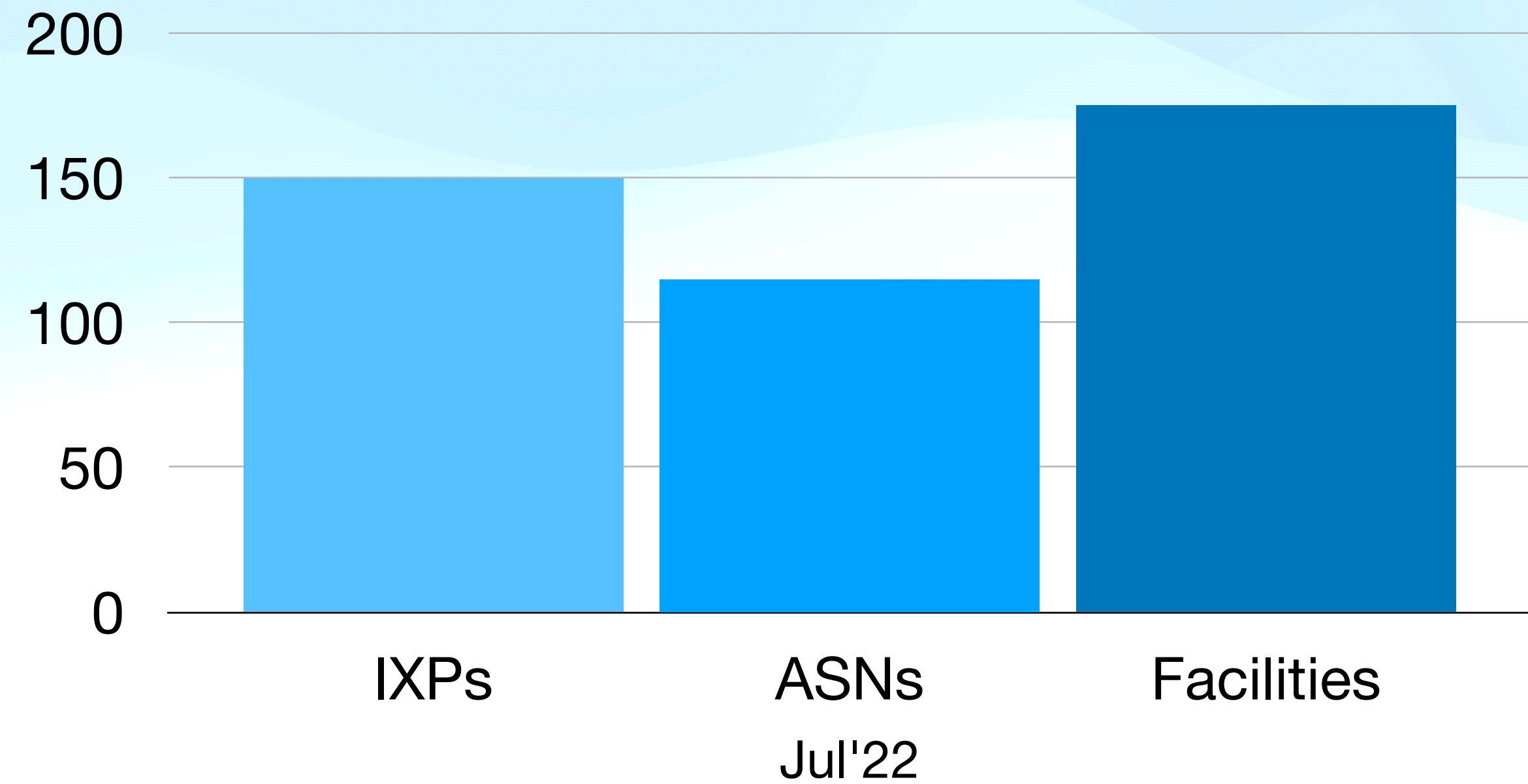
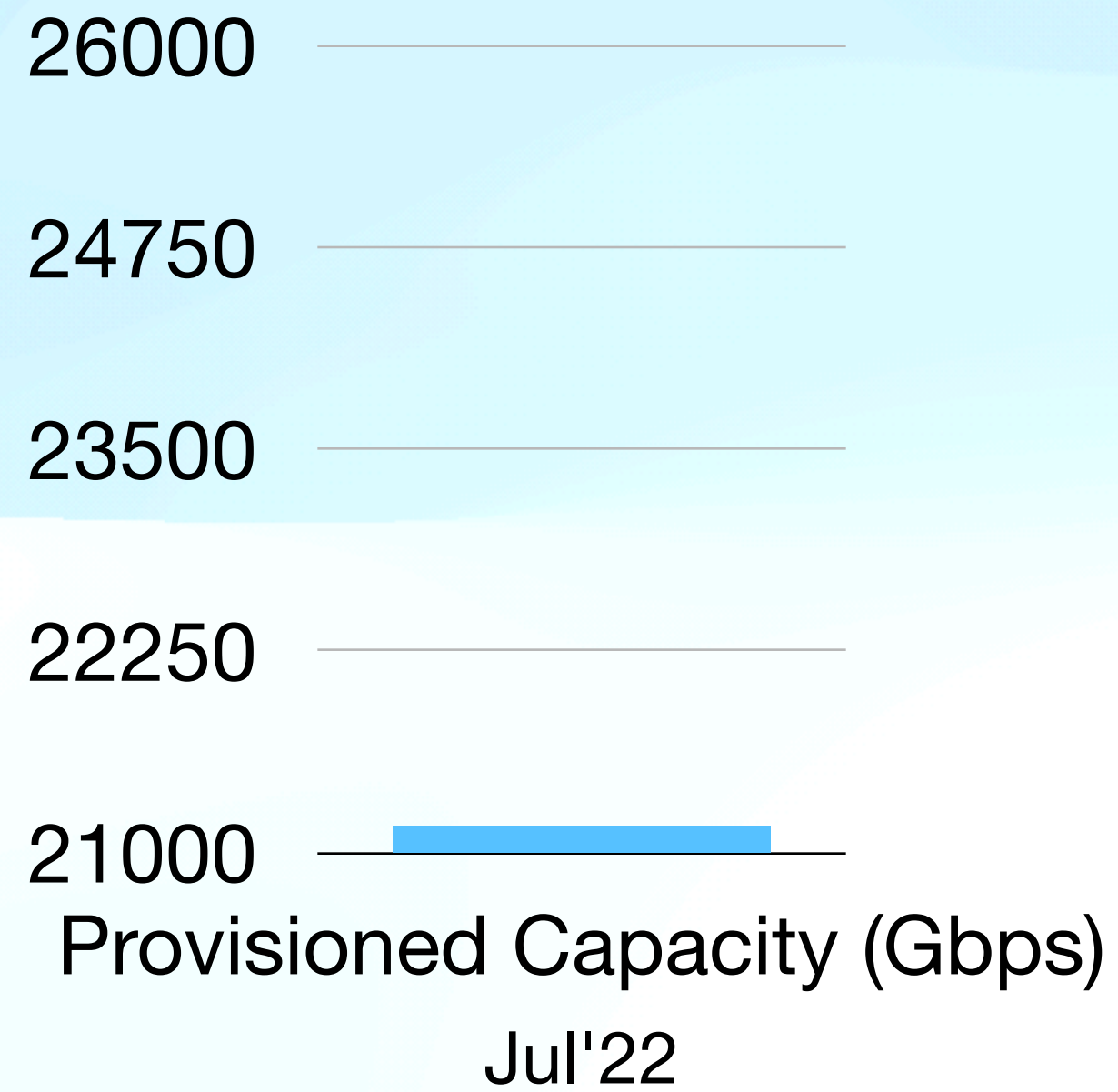
# Top 10 ASNs - Capacity across Indian IXPs

## Capacity Distribution



# How the Ecosystem has Evolved?

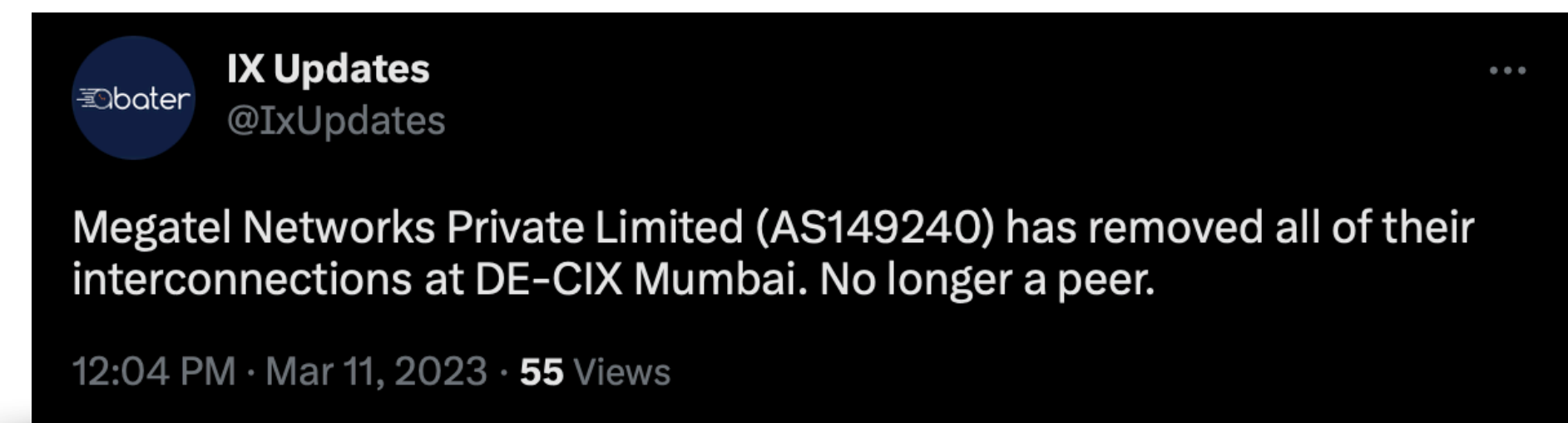
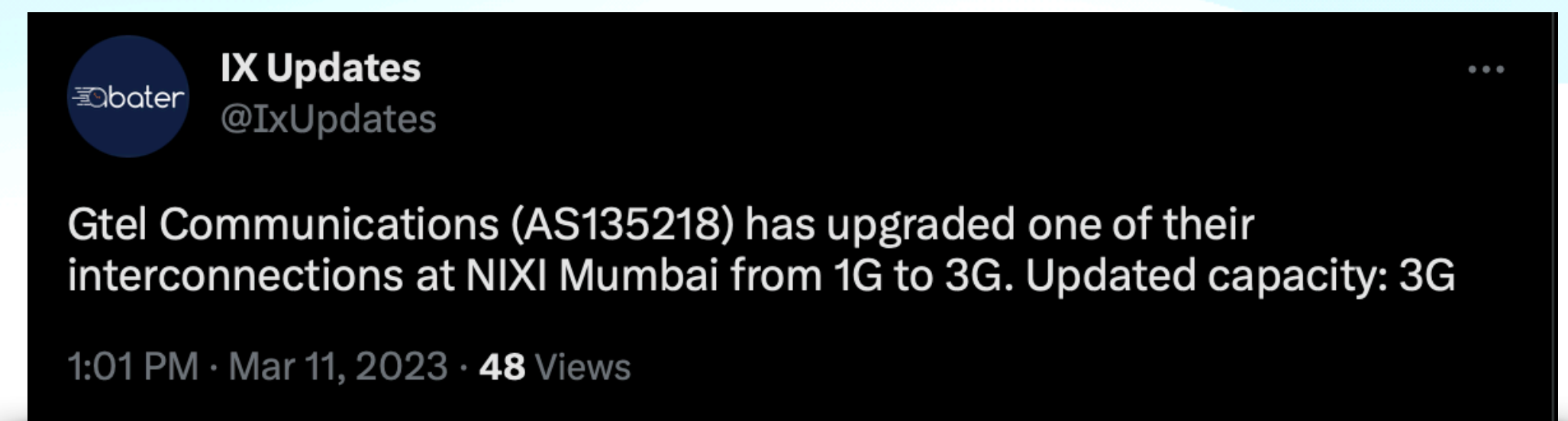
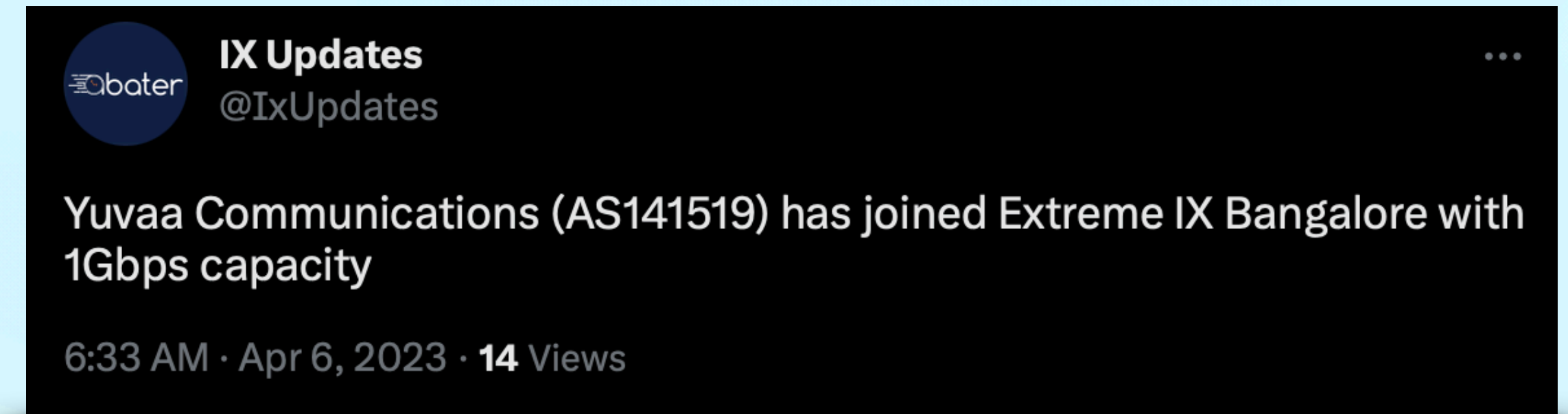
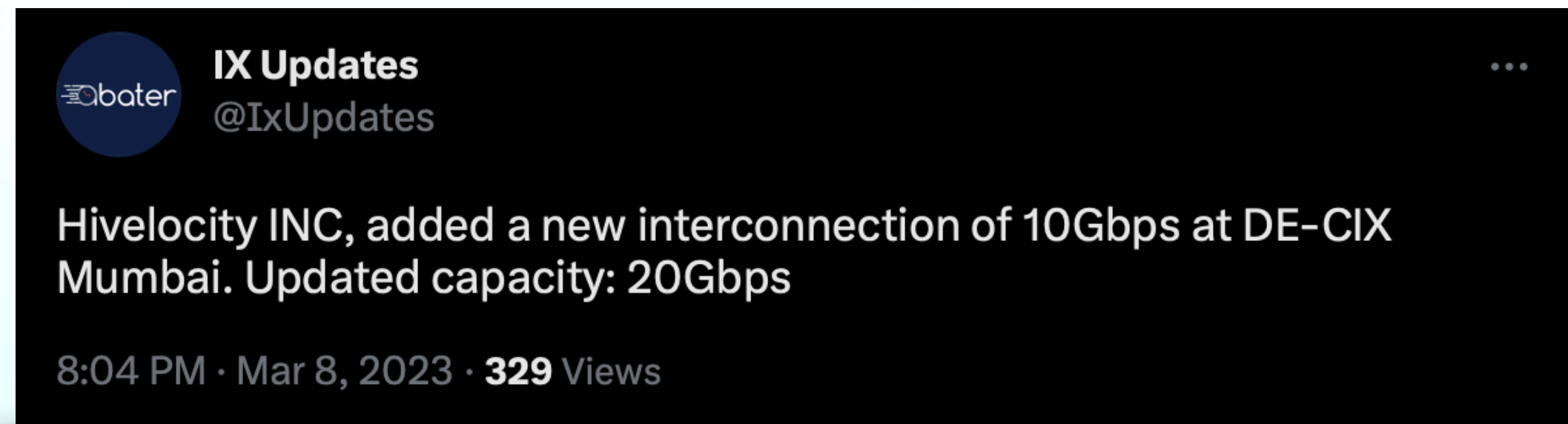
## Since July 2022



# @IXUpdates

## The Twitter Bot

Follow @IXUpdates on twitter to be notified whenever an event takes place



# What other information is available?

## Persisted Daily

- Marketshare of each IXP in India
- Capacity share (%) of all ASN at any given IXP
- ASNs peering with route-server
- ASNs joined/left in last 30 days
- If a member ASN is a ISP or CDN
- Capacity trend for IXPs
- Capacity trend for ASNs
- Capacity share(%) at all of the IXPs an ASN is part of

# Work in progress

## Things I'm working on

- Visual representation of the entire ecosystem
- Make the platform multi-tenant.
- Time travel — to go back to any date in the history (not before 2nd July 2022) and see how the ecosystem was back then

# How to Join an Indian IX as a Foreign Entity

Become a part of the thriving IX ecosystem in India

- Get an ILD
- Some IXPs require you to have a PoP in India (not all of them ask for this)



# Thank You

## Feedback / Requests

anything else would you like to see on the portal?

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