



# **Collaboration between IXP and its members/customers**

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Katsuyasu Toyama

Chairperson of APIX

# Collaboration between IXP and its members/customers

**Interactive discussion**

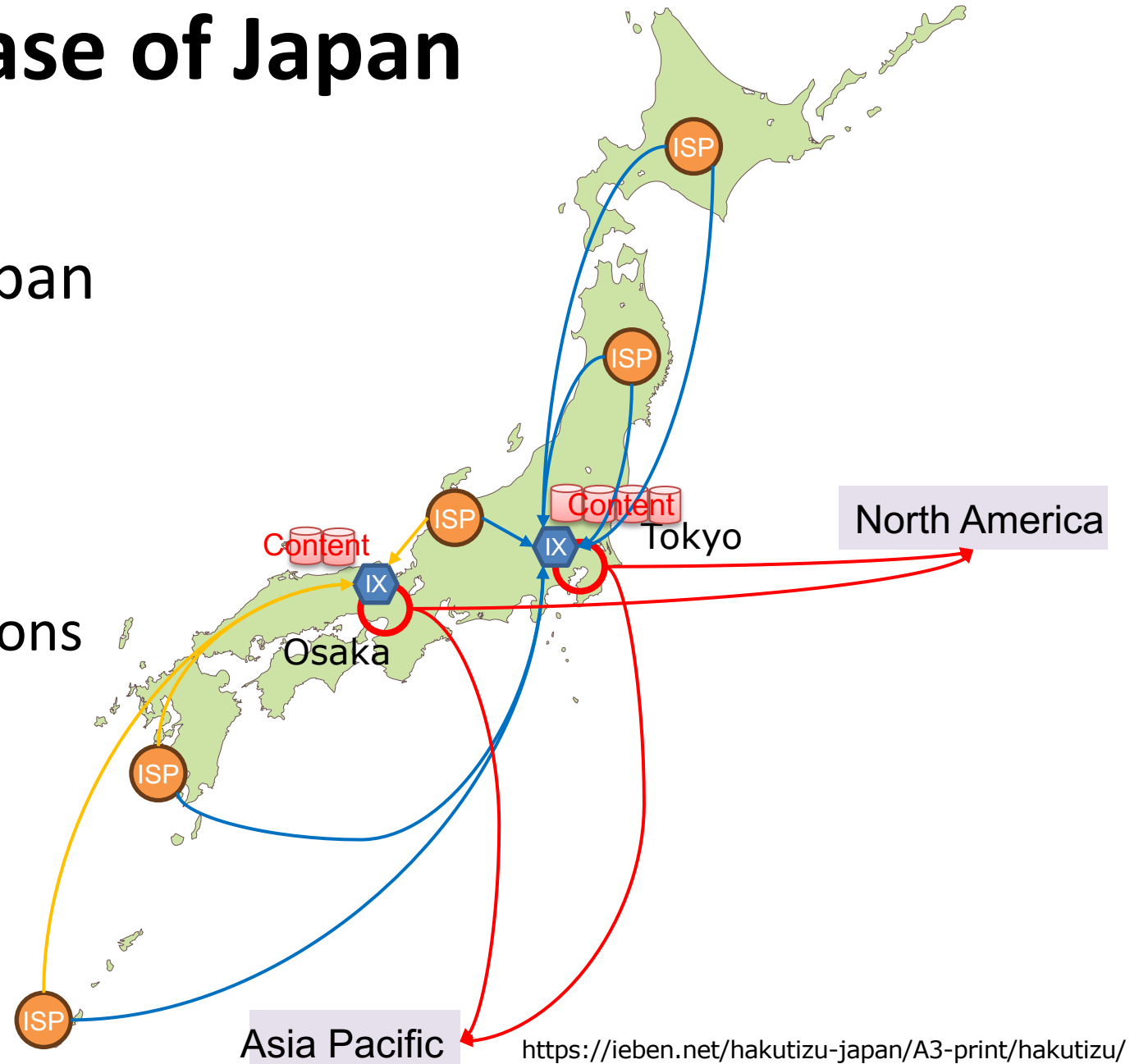
# Collaboration between IXP and its members/customers

**IXPs' collaboration with Content/Cloud/CDN players**

# Populating IXPs in not-so-big city is difficult

# A case of Japan

- Internet topology in Japan
- Tokyo & Osaka
  - Interconnection points
  - Gateways to other regions
  - Redundancy



# Challenge to grow a regional IXP in Japan

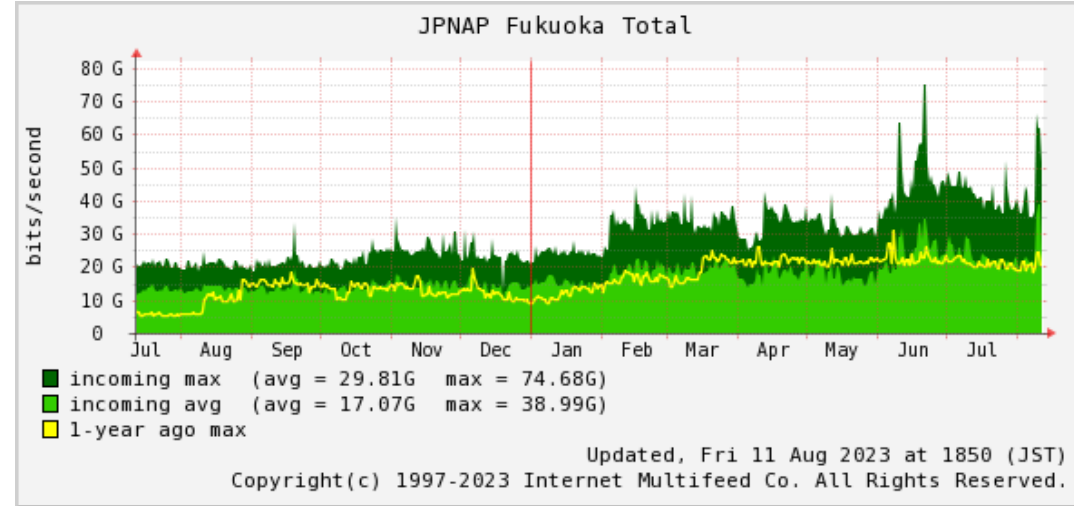
- Fukuoka
  - A major city of Kyushu Island
  - Three commercial Internet exchanges were built there around 2021



Google Map

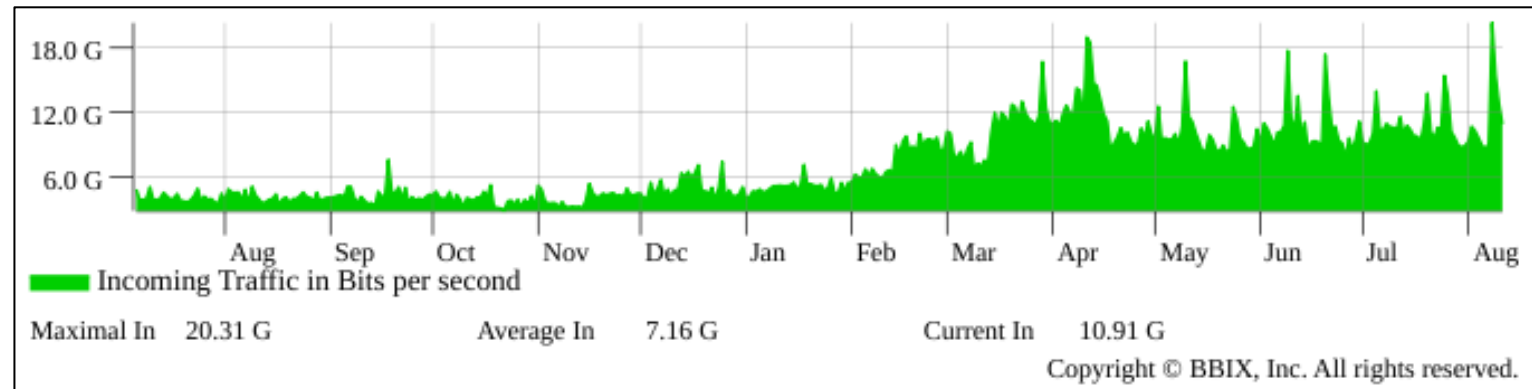
# Fukuoka is steadily growing

JPNAP Fukuoka



<https://www.jpnap.net/en/ix/traffic.html#jpnap-fukuoka-traffic>

BBIX Fukuoka



<https://www.bbix.net/en/service/ix/traffic-graph/> (Fukuka-zone)

# The key success factors

- There are substantial number of eyeballs (ISP or CATV) in Kyushu Island
- **CDN providers or their cache servers could be invited**
- The access lines to Fukuoka become cheaper than before



# Discussion

- Any good solutions to populate small/medium IXPs (Regional IXPs)?
  - Requests from an IXP side?
  - Any comments from a Content / Cloud / CDN player side?

**Thank you!**

