

What is CONECT?

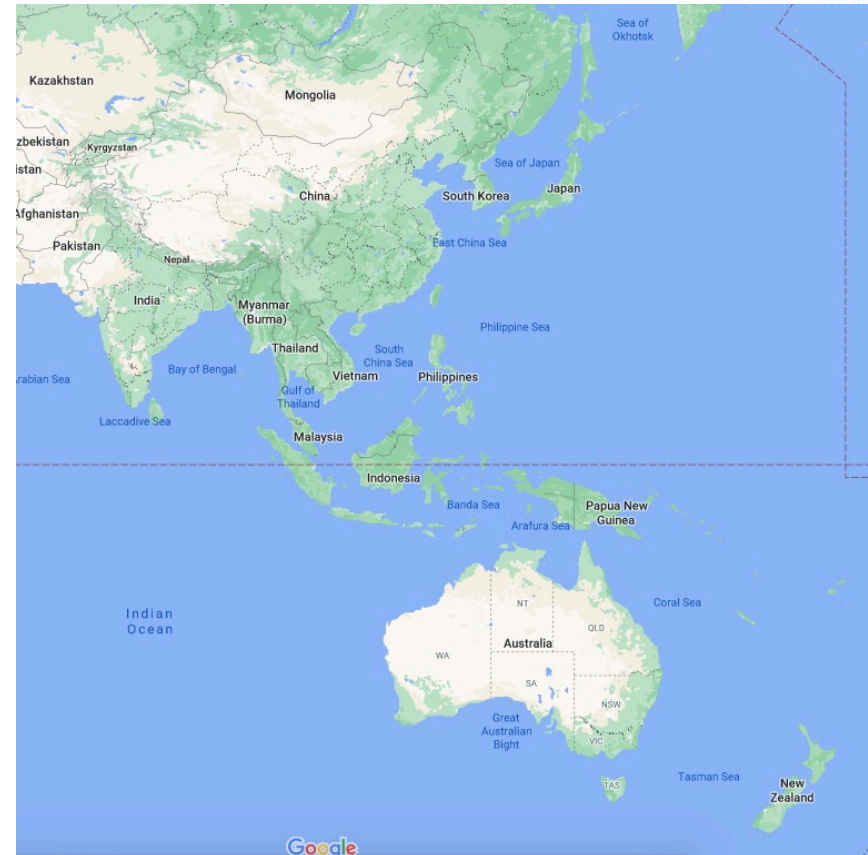
Mayumi Ono

Nov. 2020



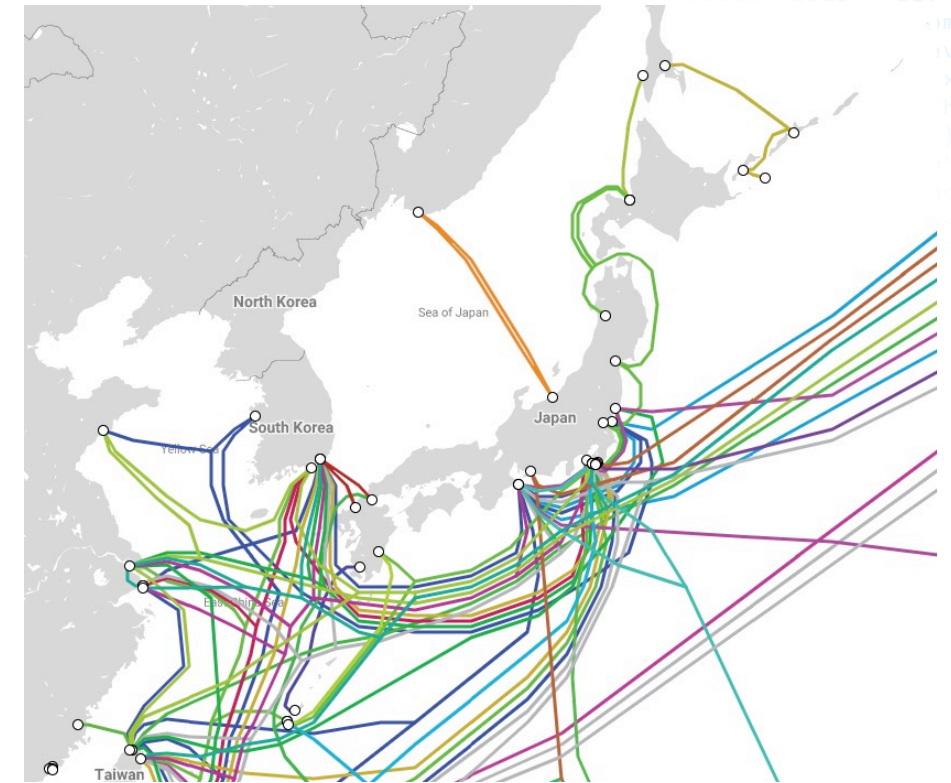
Japan Internet Landscape

- Top 10 ISPs (around 80%) + more than 100 ISPs all over the country
- Over 900 AS Numbers
- 4 major Internet eXchanges
- Various International Transit ISPs
- Carrier neutral data centers



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- Various International Transit ISPs
- Carrier neutral data centers
- Many Trans-Pacific cable systems



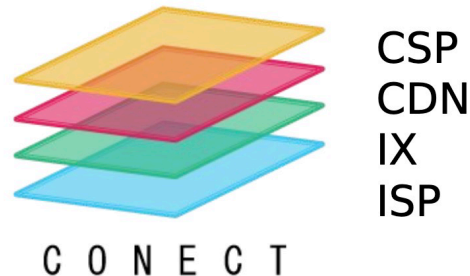
Japan Internet Meeting Landscape

- JANOG Meeting: 2 times a year + (over 1000 attendees)
- 4 different IX User Meetings:
JPIX / JPNAP / BBIX / EIE
more than 6 / year (100-200 attendees)
- Other domestic internet events: a few times a year
- Total: more than 10 domestic ISP/Internet meetings a year

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• **CONNECT**



CSP
CDN
IX
ISP

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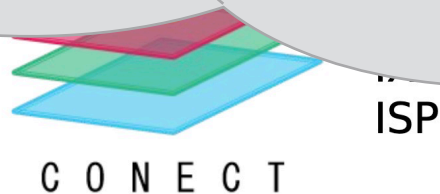
JPIX

- Other meetings
yearly

- Total: more

CONNECT

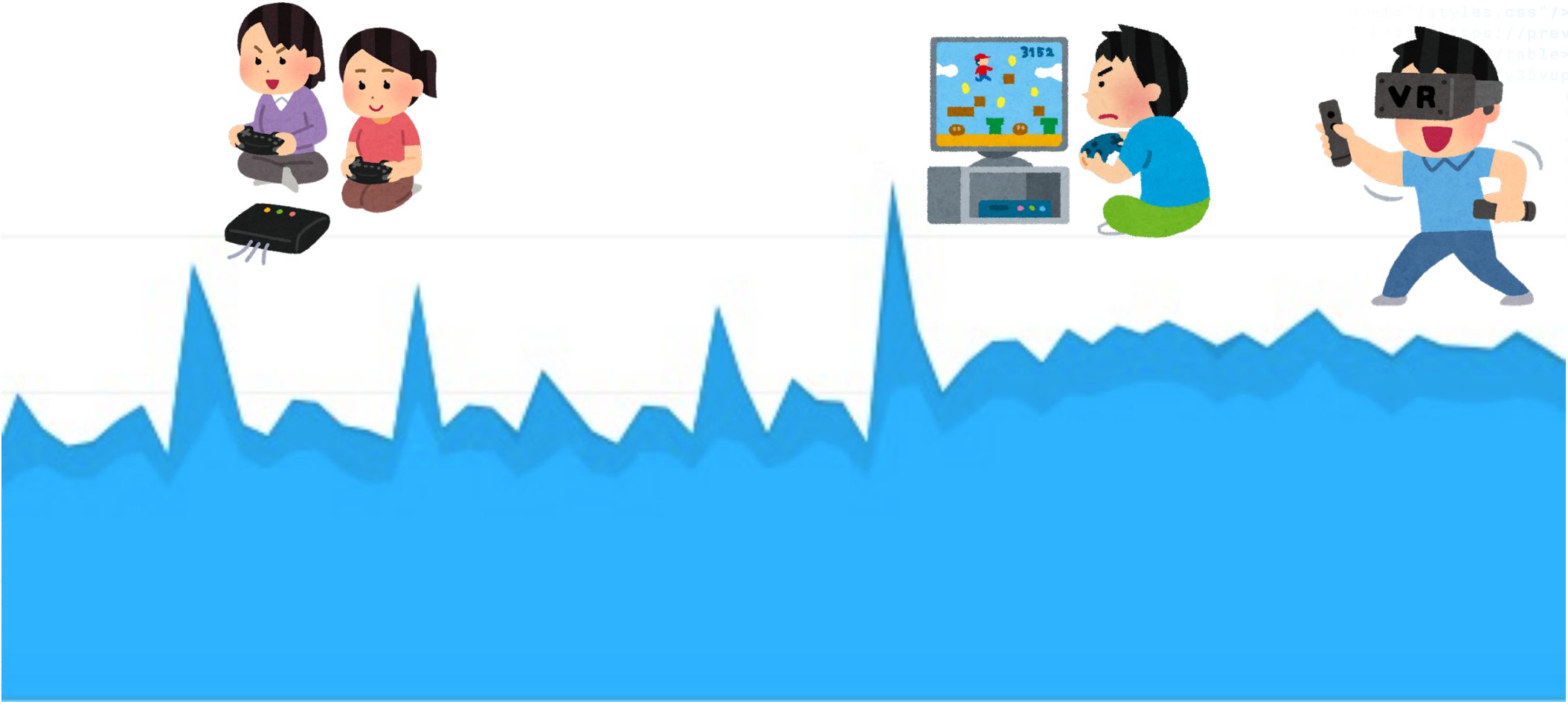
Connect what? typo?
Gee, yet another internet meeting?
Ministry of I & C's ask?
What the @\$%...



Variations of industries use Internet as it's infra



Online Game updates / new release traffic



Contents Delivery Network

CDN: Platform to deliver contents to eyeballs

CDN's Customer: Contents owners

Deliver cached origin contents per demand from end-users.

Gap of industry communications



Traffic Increase associated with COVID-19 Lock-down/Stay-home

OS/Software Update (as usual)

More Social Media

More OTT/Video Content (Download / long tail contents)

More Online Streaming

More Online games (online game app update)

More eCommerce

+ Work From Home

+ Video Conferencing / Video chat / Online socializing

+ E-learning/E-Schooling

+ Sports/Live/Event Streaming

Traffic Increase associated with COVID-19 Lock-down/Stay-home

Some government, etc. requested OTT/CDN to reduce traffic

Responses against traffic increase:

- Video contents bitrate adjustment (w/Content owner's support)
- Per content traffic shaping (w/ Content owner's support)
- Download timing adjustments (w/ Content owner's support)
- Pre-downloading of large size game data (w/ Content owner's support)
- Emergency capacity upgrades, etc. (w/ ISP, IX, data center, carrier, etc. support)

Key to improve growth of Internet traffic situation

Communication: Feedback (to & from)

ISPs / Transits / IXs
Cloud services
OTT / Content providers
CDNs
Data Centers
Government

NEW



