

November 23, 2021



Global Interconnection Practices and Korea's Network Usage Fee Discourse



A network operating at massive scale



Note: map data as of
Sep 15, 2021

● Cloudflare city

250

Cities in 100+ countries, including
mainland china

100 Tbps

of network capacity

76B

cyber threats blocked daily (on avg)
Q3 2021

50ms

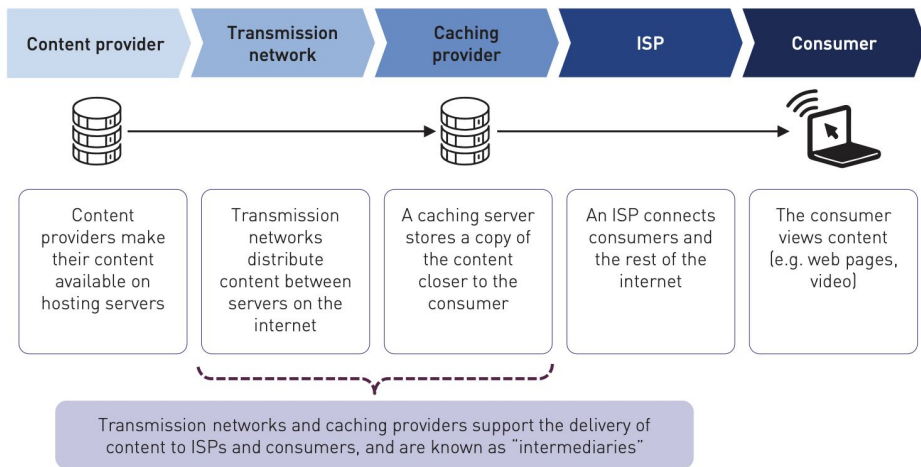
from 95% of the world's Internet
connected population

>10,000

telecom partners with
settlement-free peering

How CDN & caching works

FIGURE 2.5: SUMMARY OF THE INTERNET VALUE CHAIN RELEVANT TO CACHING [SOURCE: ANALYSYS MASON, 2020]

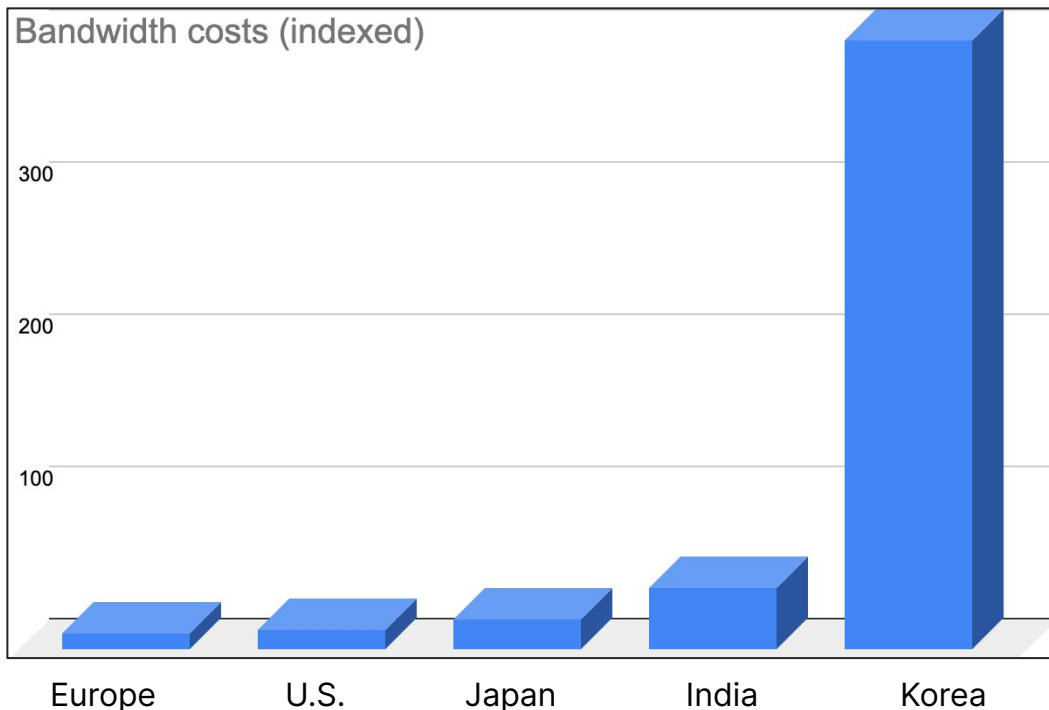


<https://www.analysismason.com/consulting-redirect/reports/benefits-of-caching-may20/>

FIGURE 2.1: THE FUNDAMENTAL CONCEPT OF CACHING [SOURCE: ANALYSYS MASON, 2020]



Relative costs of bandwidth in different jurisdictions



Unlike other jurisdictions, bandwidth costs in Korea have not gone down.

- Bandwidth costs **have not dropped in 6 years**.

Bandwidth costs have an effect.

- South Korea is the **only major world economy** where a substantial amount of Internet traffic is **served from outside** the country.

Latency for South Korean Internet users

Difference in latency between

- Content served locally, by an ISP who peers directly with Cloudflare, and
 - Same content served from outside Korea.
- Korean users who get served content from outside Korea see an Internet that is

187 % slower

Measuring delivery of content using Cloudflare free services

