CAP investments have grown significantly in this region, and these help to generate significant savings for ISPs.

**Total spend by CAPs on internet infrastructure over various periods since 2011**

<table>
<thead>
<tr>
<th>Year</th>
<th>USD billion</th>
</tr>
</thead>
<tbody>
<tr>
<td>2011</td>
<td>24</td>
</tr>
<tr>
<td>2012</td>
<td>214</td>
</tr>
<tr>
<td>2013</td>
<td>88</td>
</tr>
<tr>
<td>2014</td>
<td>273</td>
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<td>2015</td>
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<tr>
<td>2016</td>
<td>188</td>
</tr>
<tr>
<td>2017</td>
<td>198</td>
</tr>
<tr>
<td>2018</td>
<td>214</td>
</tr>
<tr>
<td>2019</td>
<td>152</td>
</tr>
<tr>
<td>2020</td>
<td>152</td>
</tr>
<tr>
<td>2021</td>
<td>152</td>
</tr>
</tbody>
</table>

**Examples of investment drivers by cluster**

**HOSTING**
- Growth in cloud zones for five main cloud providers:
  - Google
  - Microsoft
  - Amazon
  - Alibaba
  - Tencent

**TRANSPORT**
- Growth in submarine cables with CAP investors that land in the region
  - RFS by 2018: 5
  - RFS by 2022: 12
  - RFS by 2024: 17

**DELIVERY**
- Growth in private peering locations for five main CAPs
  - Google
  - Microsoft
  - Meta
  - Amazon
  - Netflix

**The number of cloud zones for five main cloud providers grew by 95% between 2018 and 2022.**

**The number of submarine cables with CAP investors that will be ready for service will be 140% higher in 2022 compared to 2018.**

**The number of private peering locations for five main CAPs grew by 77% between 2018 and 2022.**

**ISPs can achieve cost savings as a result of investments that CAPs make to bring traffic closer to end users, in two main areas:**
- CAP investments that enable ISPs to access content at domestic peering locations
- CAP investments to cache content within ISP networks

**An estimated USD2.39 billion can be saved by fixed network ISPs in Asia–Pacific (excl. China) in 2022, as a result of investments made by CAPs.**

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1 Number of cloud availability zones. Sourced from cloud provider websites in mid-2018 and mid-2022.
2 Examples of submarine cables with direct CAP investors. Sourced from TeleGeography Submarine Cable Map in mid-2022. ‘RFS’ refers to ‘ready for service’. Submarine cables frequently connect different regions, and adding the figures presented across regions can result in double counting.
3 Number of private peering locations. Sourced from PeeringDB in mid-2018 and mid-2022. Please note that the growth in traffic at private peering locations is significantly faster than the growth in number of private peering locations.
4 China has been excluded from the estimate of savings for ISPs, as content delivery there is relatively insular – some global CAPs deliver no traffic within China and many China-based CAPs deliver little traffic outside China.
For more details please see:

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