5G Spectrum C-Band Snapshot

October 2019

Global mobile Suppliers Association – GSA

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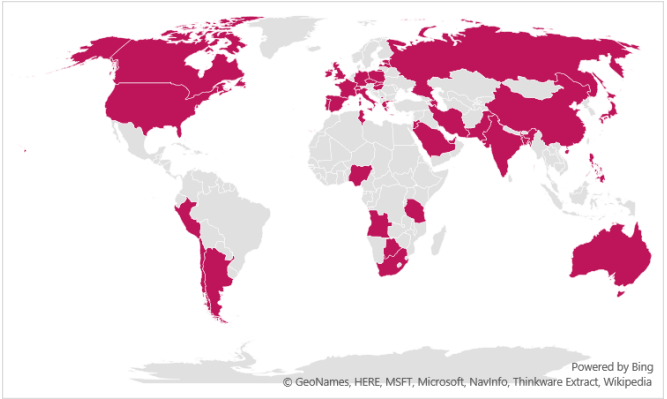
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C-BAND SPECTRUM HAS BEEN LICENSED TO 64 OPERATORS FOR 5G

C-Band spectrum (n77, n78: 3.3-4.2 GHz) is used for LTE as well

- The lower end of the spectrum band is partially used for LTE.
- LTE Band 42 (3400-3600 MHz): 62 licensed operators in 32 countries. 46 have launched in 28 countries.
- LTE Band 43 (3600-3800 MHz): 39 licensed operators in 14 countries. 13 have launched services.
- Relatively few LTE devices: 268 devices support Band 42 (205 routers). 204 support Band 43 (171 routers).
- C-Band spectrum has emerged as a leading frequency range for 5G.
- 137 operators investing: 69 are evaluating/ testing/trialling 5G in this spectrum. 68 are licensed to use C-Band for 5G, of which 43 are deploying, have deployed, or have launched 5G networks using this spectrum.
- Auctions/allocations are underway Hungary, Israel, New Zealand, and Taiwan. Auctions/allocations are planned in an additional 24 countries.

Countries that have allocated LTE licences in Band 42 or 43



21 5G devices have been announced explicitly supporting band n77 (8 CPE, 6 modules, 5 phones, 2 others).

35 5G devices have been announced explicitly supporting band n78 (11 CPE, 14 phones, 6 modules and 2 hotspots and 2 USB modems).

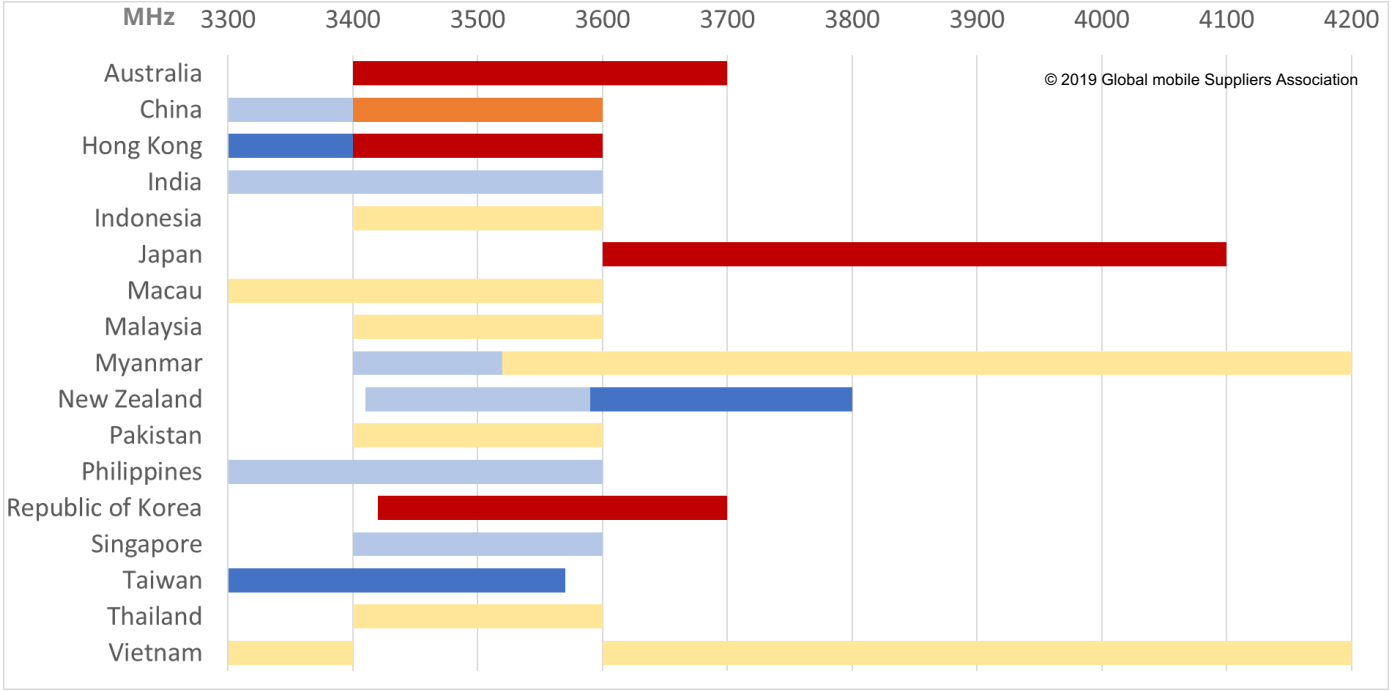
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“C-BAND” ASIA-PACIFIC (ITU REGION 3)

- Licensed to test/trial
- Licensed
- Auction/licensing in progress
- Auction/licensing planned
- Consultation
- Considering
- Reserved
- Shared spectrum/local licences

Outline indicates that precise range is unknown

Where GSA only holds data about regulator strategies in relation to imprecise bands, our interpretation of spectrum ranges is as follows: "C Band“: 3300–4200 MHz; 3.3 GHz: 3300–3400 MHz; 3.5 GHz: 3400–3600 MHz; 3.6 GHz: 3500–3700 MHz; 3.7 GHz: 3600–3800 MHz. In many countries there are existing non-5G licences that are due for expiry within a few years. These are not shown on the charts.



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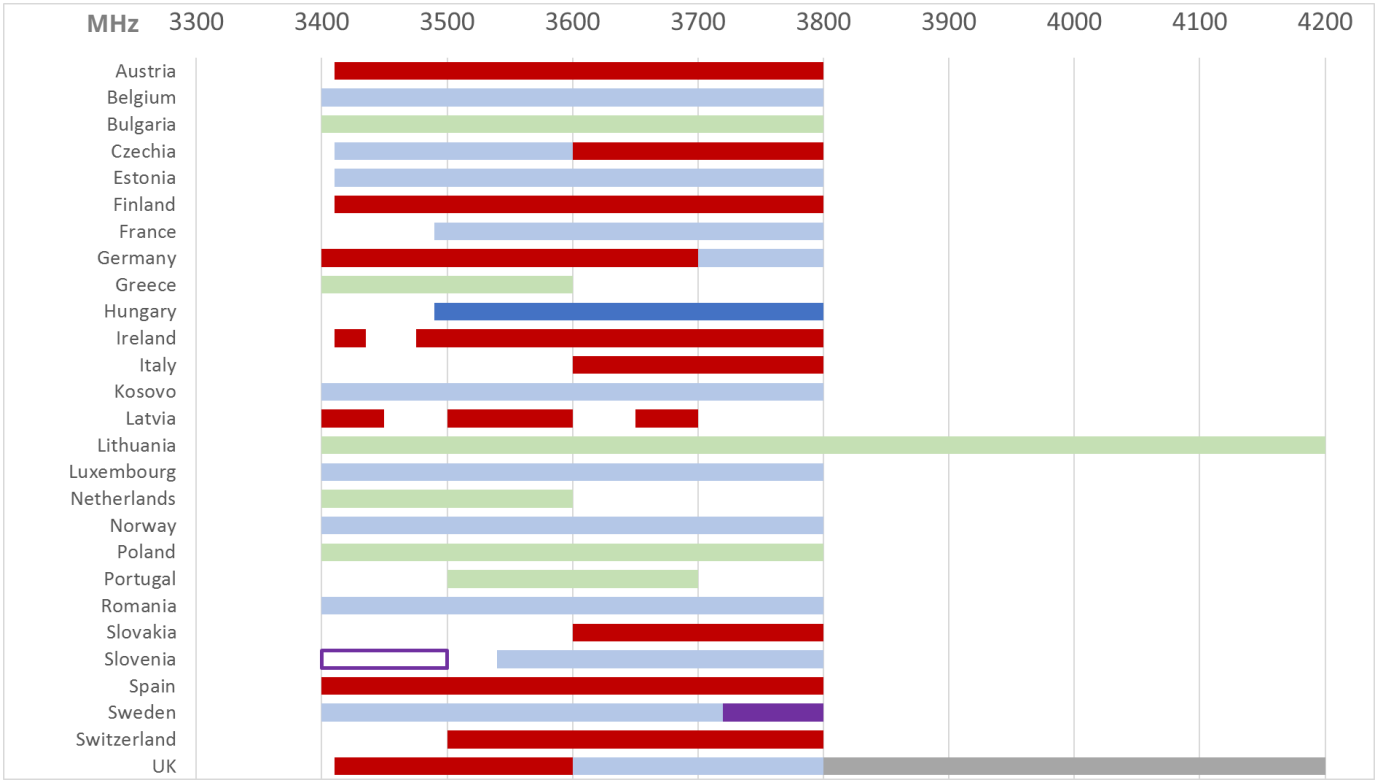
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“C-BAND” CEPT (ITU REGION 1)

- Licensed to test/trial
- Licensed
- Auction/licensing in progress
- Auction/licensing planned
- Consultation
- Considering
- Reserved
- Shared spectrum/local licences

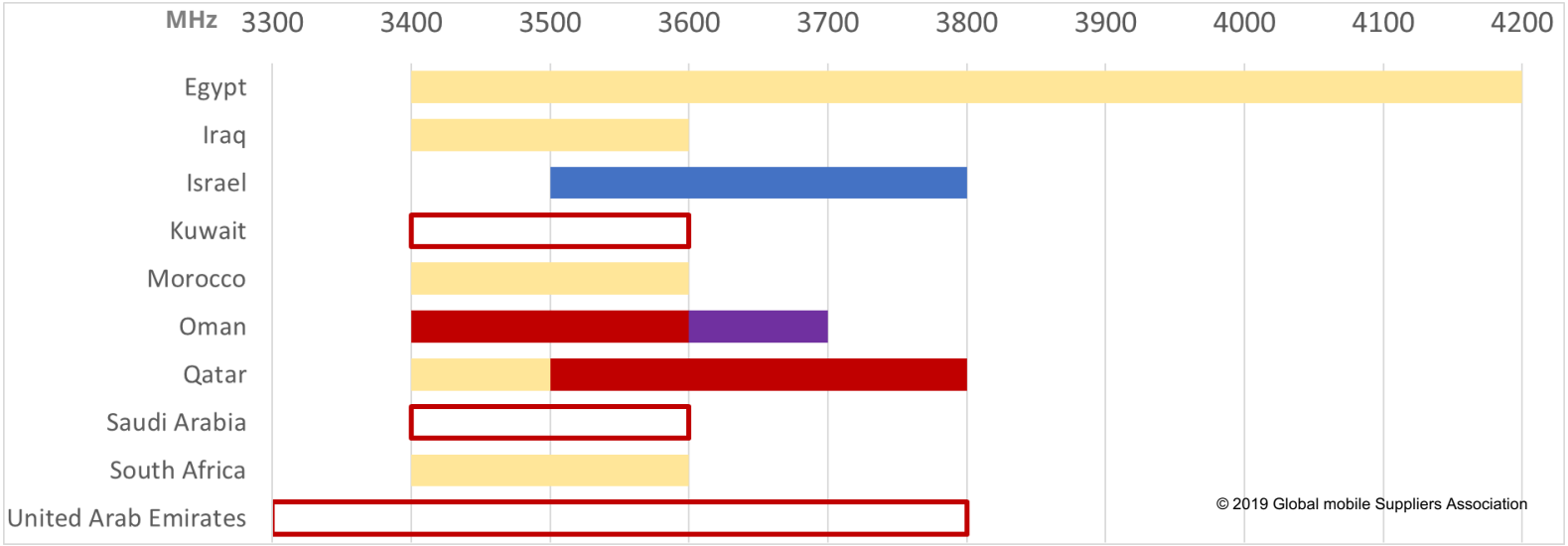
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“C-BAND” MIDDLE EAST AND AFRICA (ITU REGION 1)



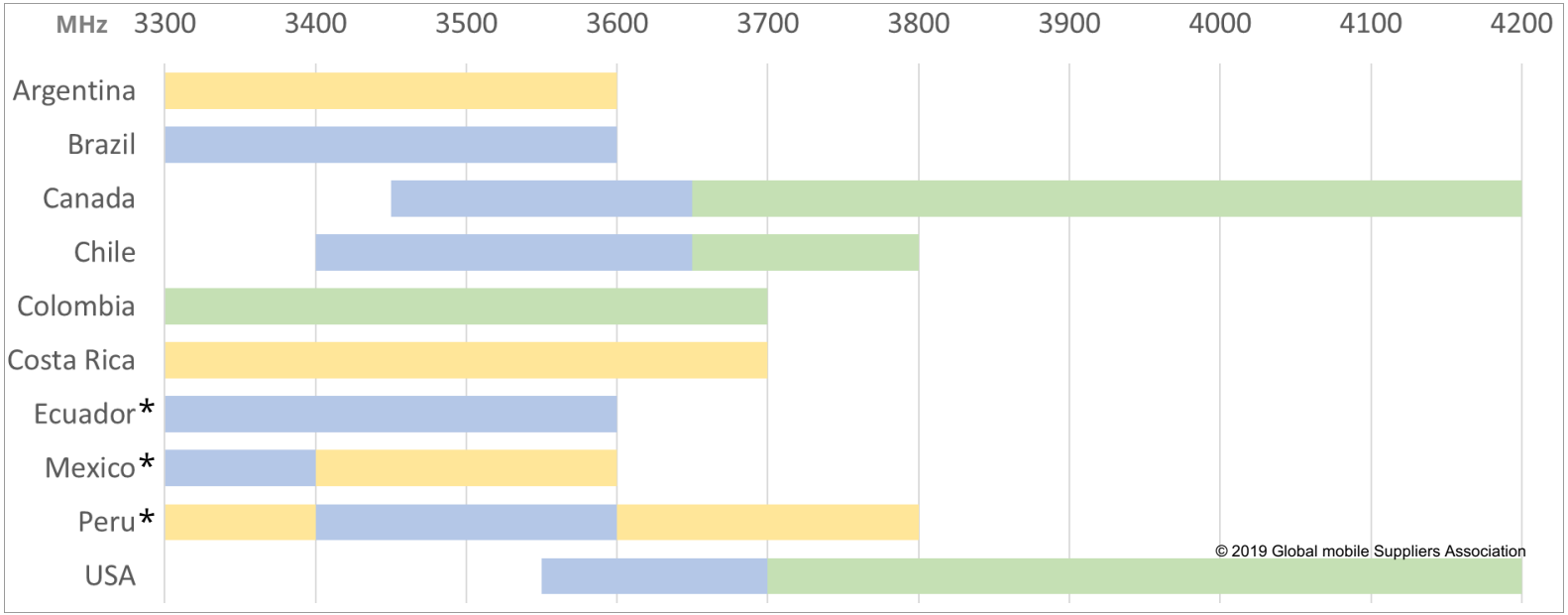
Licensed to test/trial
Licensed
Auction/licensing in progress
Auction/licensing planned
Consultation
Considering
Reserved
Shared spectrum/local licences

Outline indicates that precise range is unknown

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“C-BAND” – THE AMERICAS (ITU REGION 2)



Licensed to test/trial
Licensed
Auction/licensing in progress
Auction/licensing planned
Consultation
Considering
Reserved
Shared spectrum/local licences

Outline indicates that precise range is unknown

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