

GLP2020 Progress Status

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Beyond
2020



5G Testing
Anritsu



MEMBERSHIP

TSE code : 6754

<https://www.anritsu.com>

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envision : ensure

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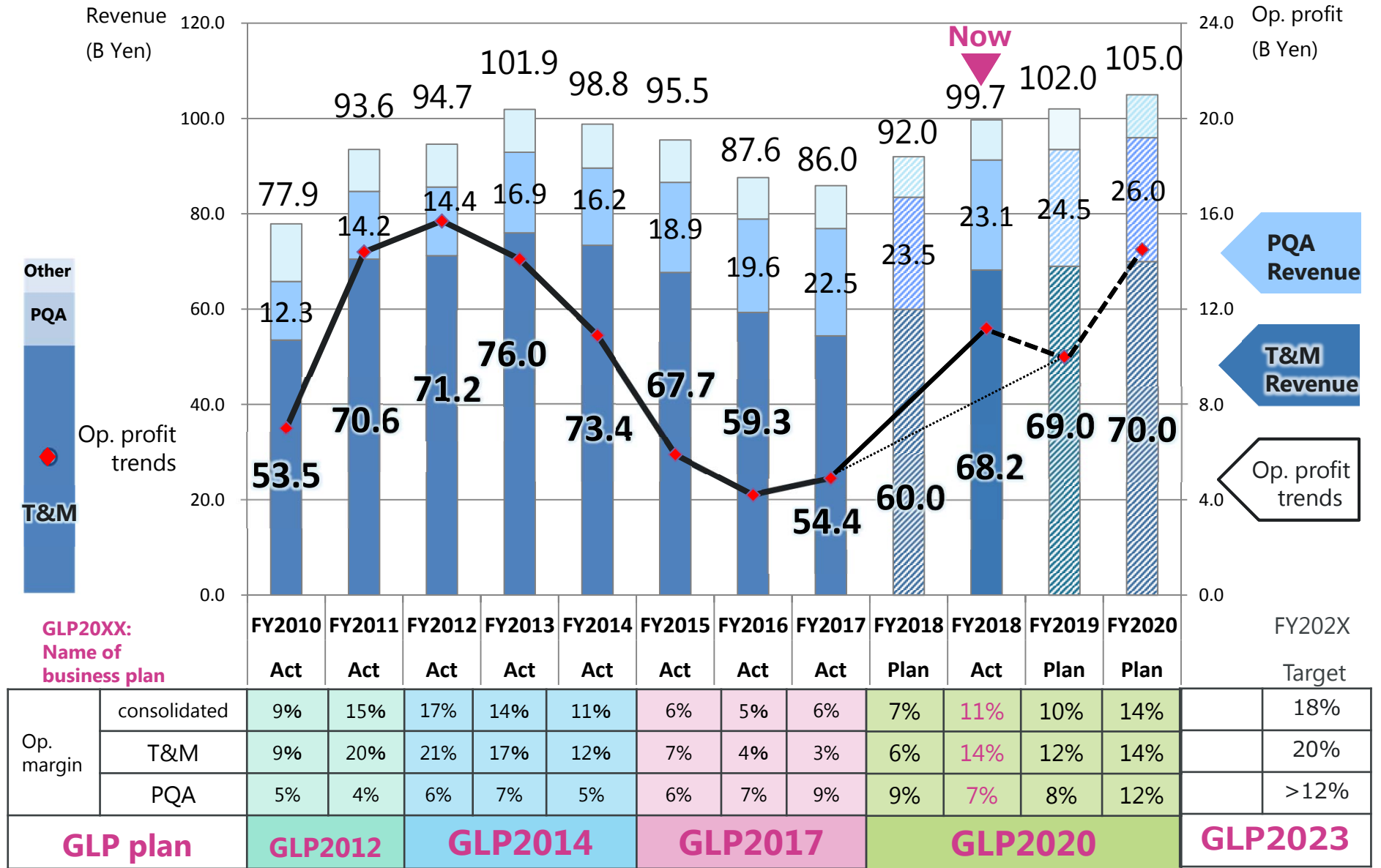
Agenda

- I. GLP2020 Progress Status and FY2019 Initiatives
- II. MWC 2019 Report
- III. Roadmap of 5G

Appendix

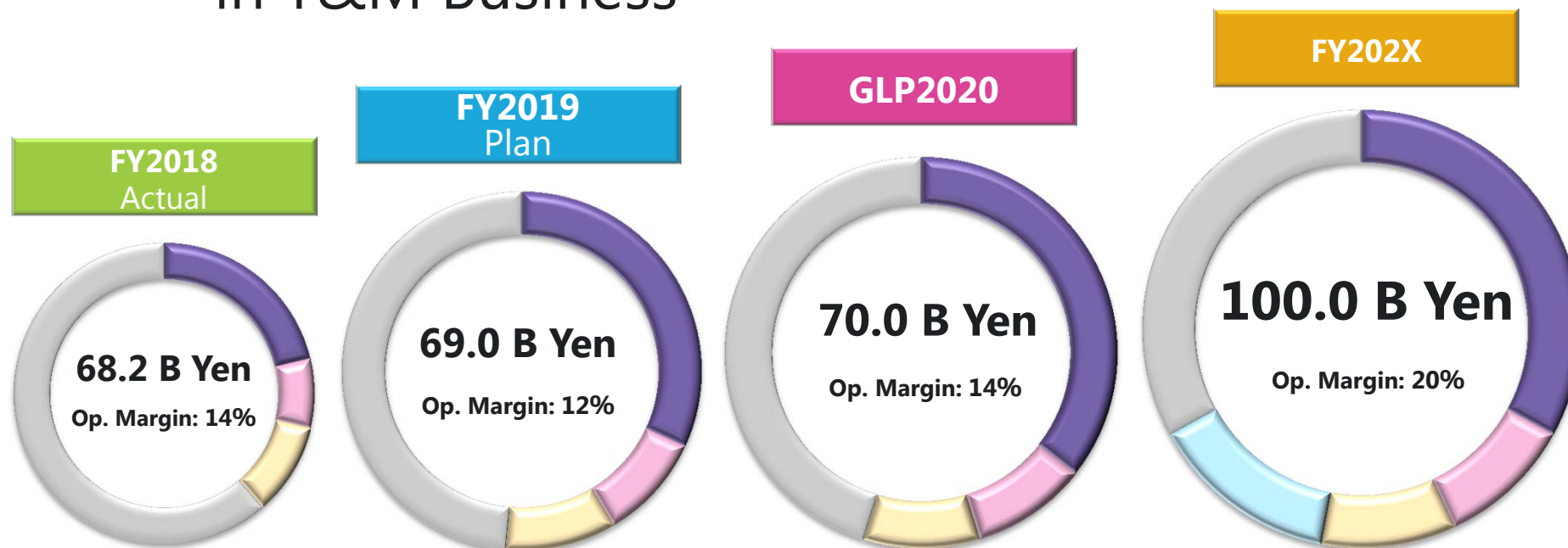
Latest Trends in 5G and Anritsu's Test Solutions

I - 1. GLP2020 : Revenue and Op. profit Plan Progress



I - 2. GLP2020 Progress Status in T&M Business

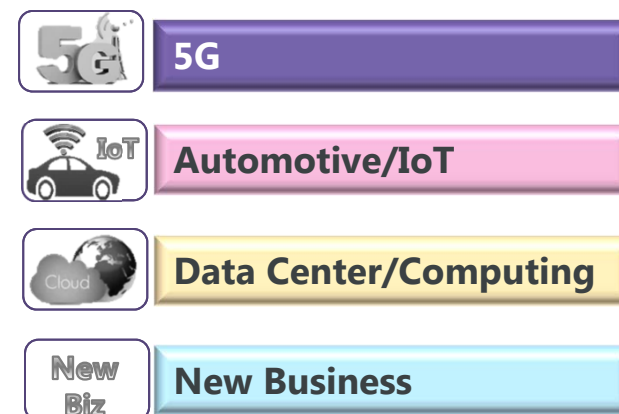
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FY2019 Initiatives

Capture growth opportunities by focusing on boosting competitiveness in 5G business

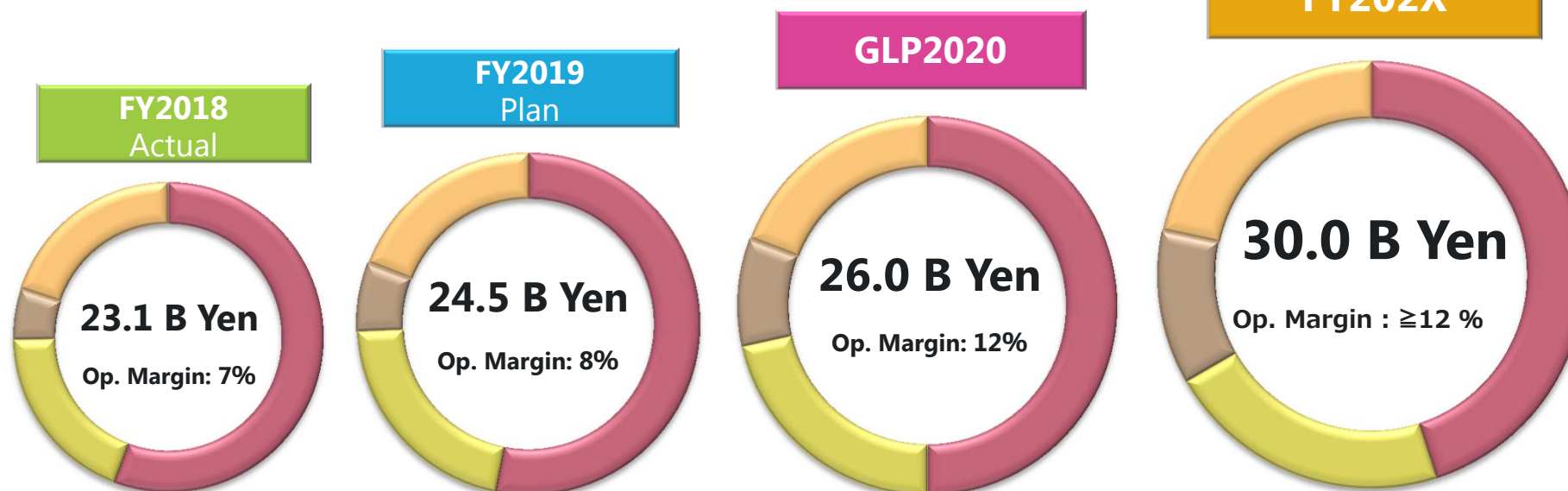
- Enhance global development framework and customer support system
- Promote conformance test system business



I - 3. GLP2020 Progress Status in PQA Business

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FY202X



FY2019 Initiatives

- Strengthen sales bases in Americas and Europe
- Promote shift to platform solutions

Japan

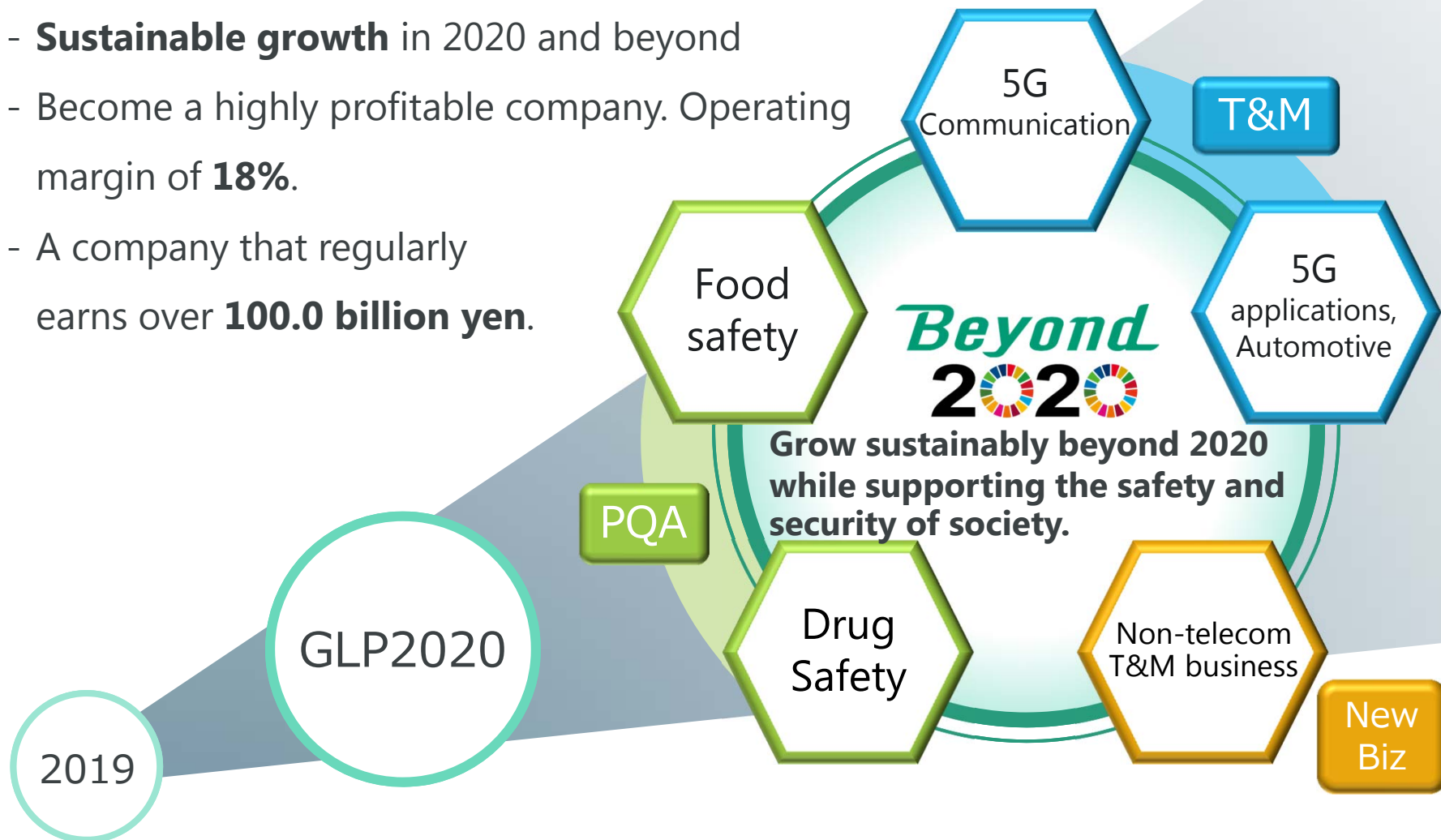
Americas

EMEA

Asia

I - 4. Set out for Beyond2020

- **Sustainable growth** in 2020 and beyond
- Become a highly profitable company. Operating margin of **18%**.
- A company that regularly earns over **100.0 billion yen**.



Resolve social issues by realizing Beyond 2020

II. MWC 2019 Report



II -1. Overview of MWC19

MWC 2019, the largest mobile event in the world held in Barcelona, Spain, from February 25 to 28.

The spotlight was on 5G smartphones and foldables.

▶ Many device vendors exhibited 5G smartphones.



Samsung
Galaxy
S10 **5G**



LG
V50 **5G**



Sony
Xperia



Huawei
Mate 20



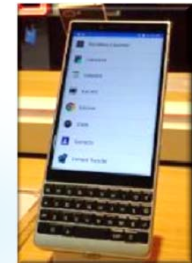
Xiaomi
Xiaomi 9



ZTE
Axon
10 **5G**



TCL
Alcatel
7 **5G**



TCL
Black Berry

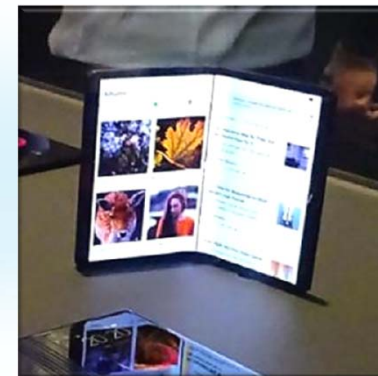
▶ Foldable smartphones were the center of attention.



Huawei
Mate
X **5G**



Samsung
Galaxy
Fold



TCL
Dragon
Hinge

II -2. xR a Standout Among 5G Use Cases



xR
(VR, AR, MR, SR)



Music Play



5G Factory



Edge Computing For V2X



Telemedicine



5G Stadium

- ▶ The name “xR” is catching on as an umbrella term for AR, VR, MR and SR. New expressions and uses are growing.
- ▶ Industrial IoT proposals that take advantage of low latency 5G are increasing.

AR : Augmented Reality

VR : Virtual Reality

MR : Mixed Reality

SR : Substitutional Reality

II -3. Anritsu Booth



MS2090A
Field Master Pro
9kHz – 54GHz

First showcase of
handheld spectrum
analyzer for 5G



First showcase of CATR
chamber



Performance test for
commercial devices



RF Conformance test



Protocol
conformance test

- ▶ Anritsu display covered our full lineup from 5G development to conformance tests, manufacturing and maintenance.

CATR : Compact Antenna Test Range

II -4. All Eyes on 5G Live Demonstration Example Using MT8000

▶ Anritsu Booth



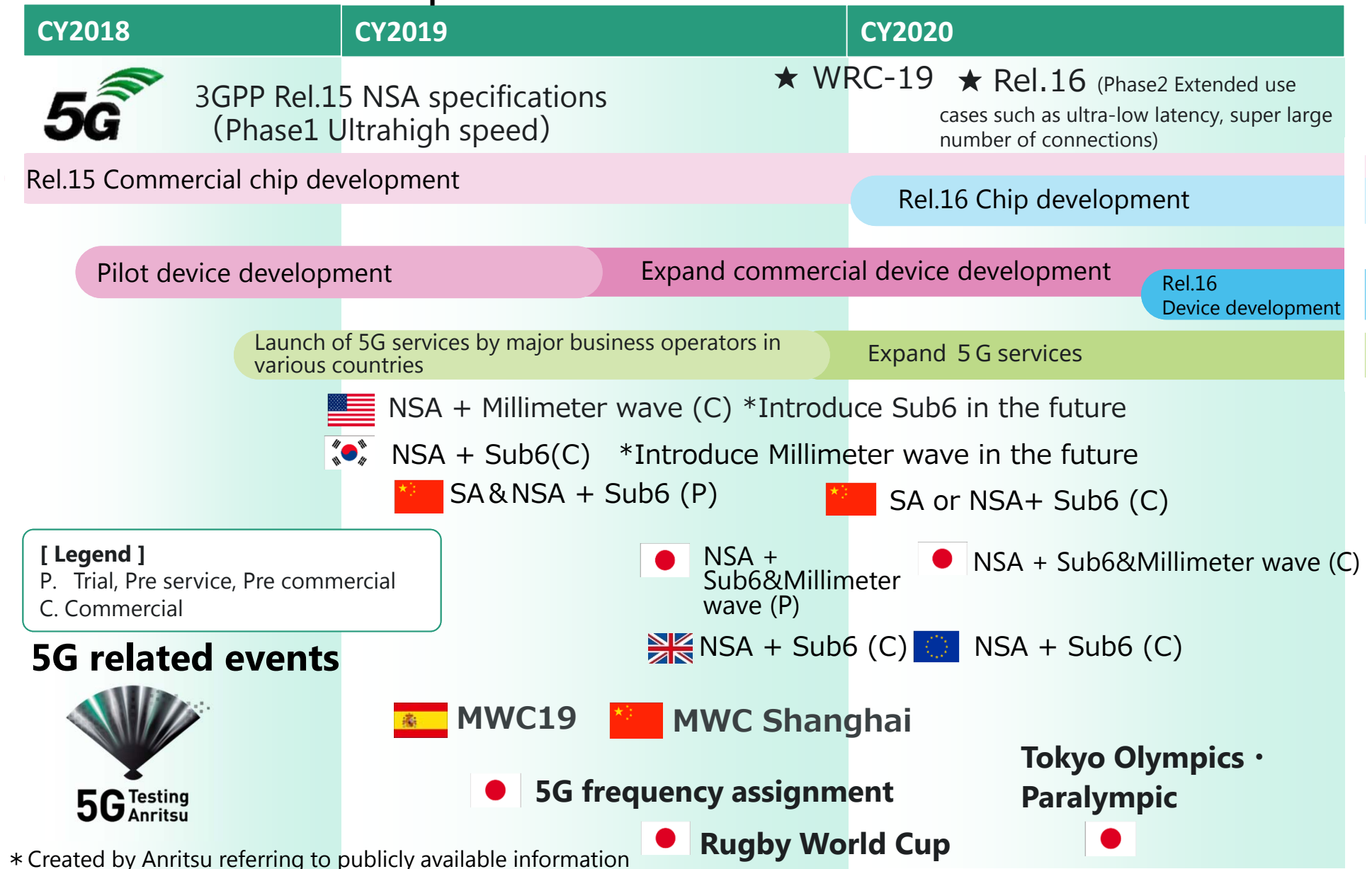
Connectivity tests were conducted with Qualcomm, Sony, MediaTek and Inseego devices.

▶ Media Tek Booth



Sub6GHz throughput demonstration
Achieved stable over 4 Gbps

III-1. Roadmap of 5G

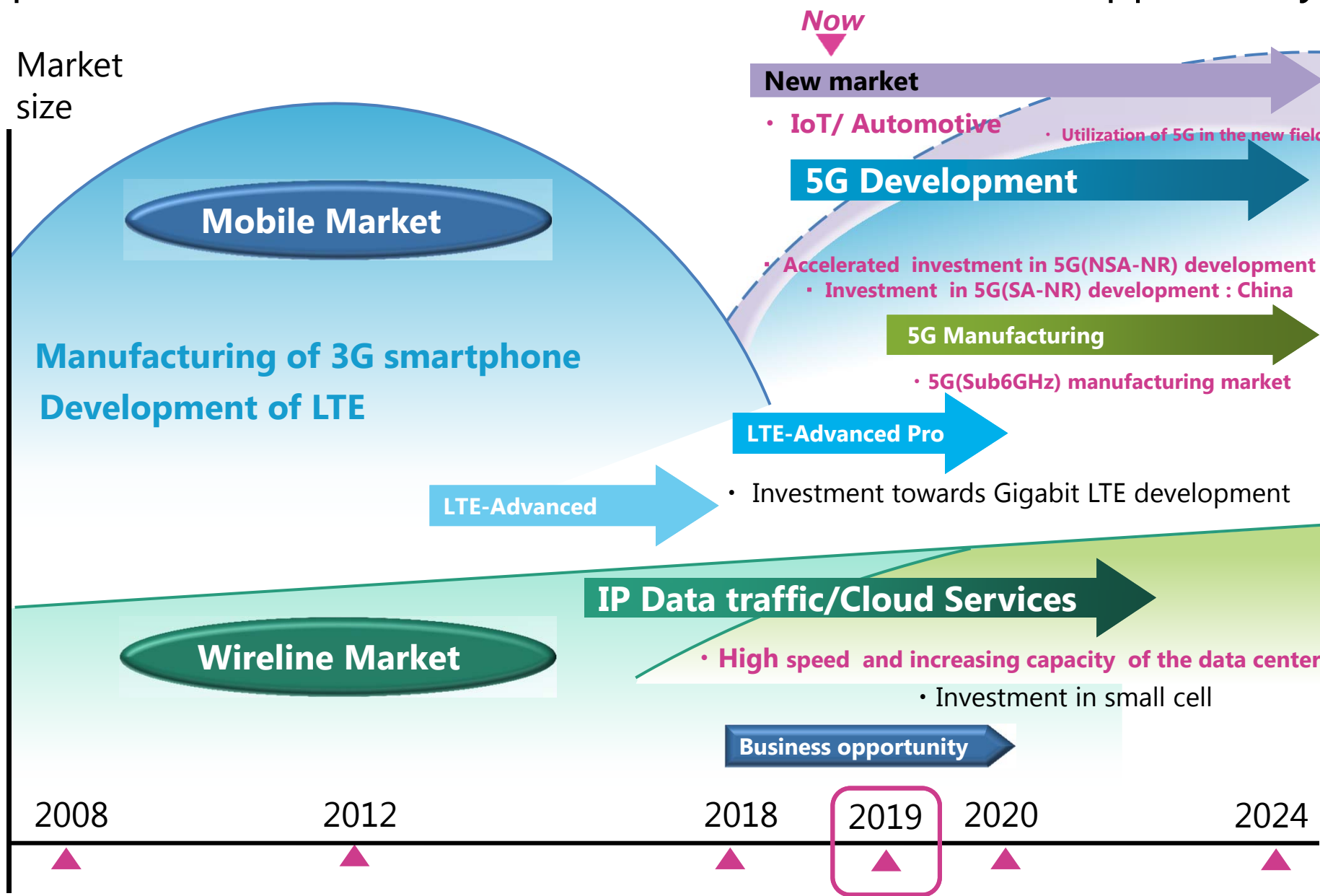


* Created by Anritsu referring to publicly available information

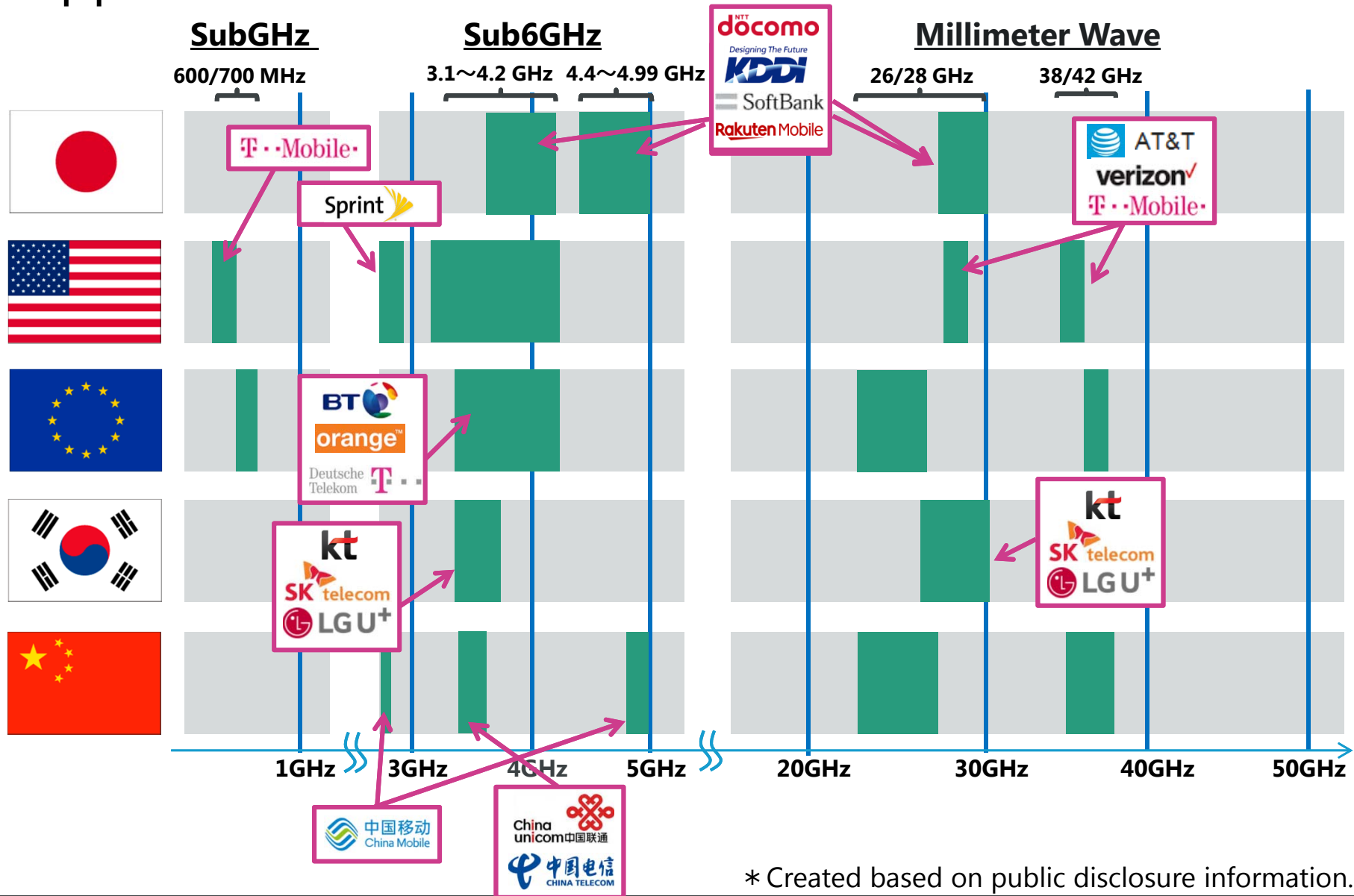
Appendix

Latest Trends in 5G and Anritsu's Test Solutions

Appendix-1 T&M : Mobile market trends and Business opportunity

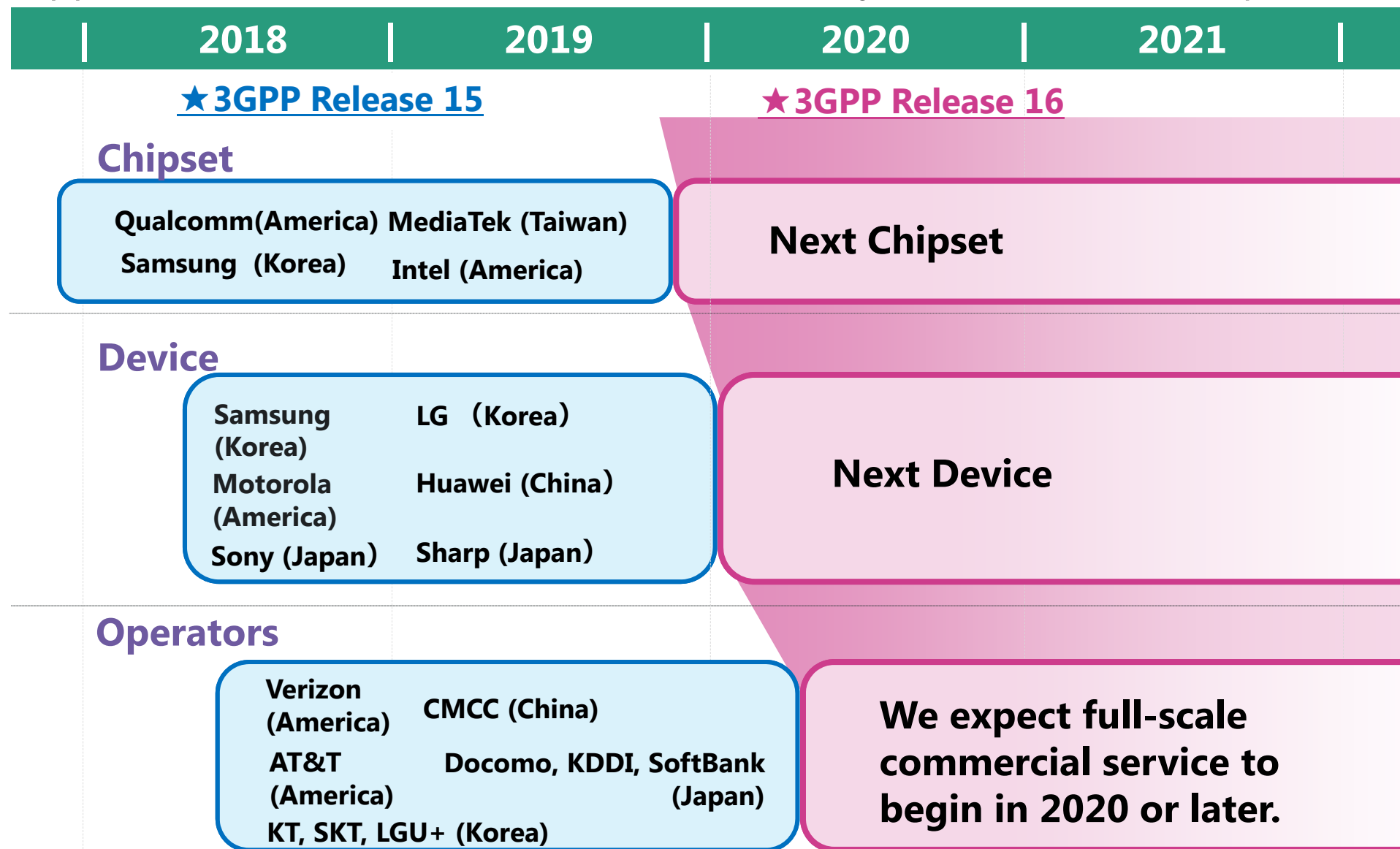


Appendix-2. 5G Band Allocations in the World



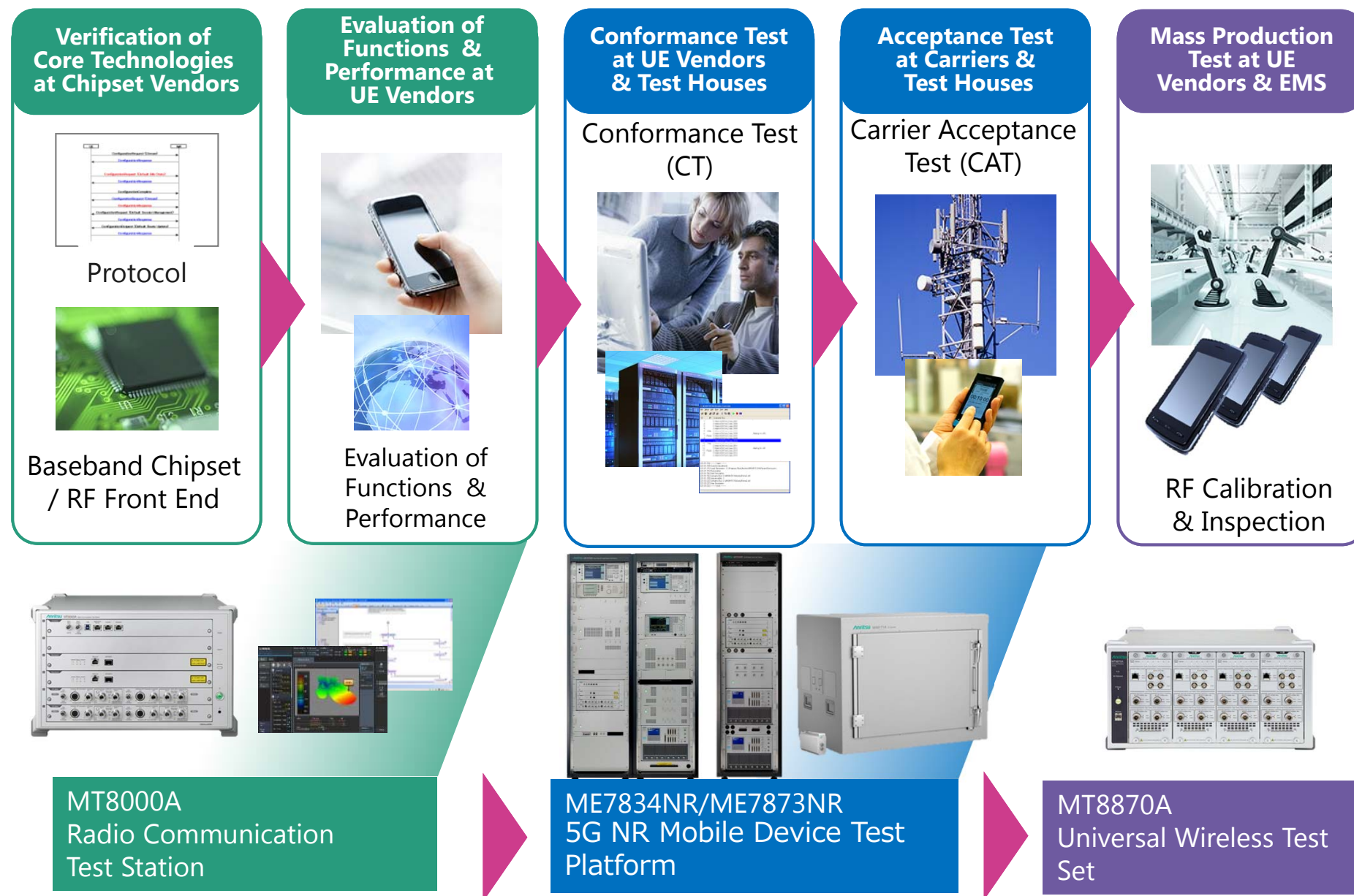
* Created based on public disclosure information.

Appendix-3. Current status and outlook for major 5G vendors and operators



*Created by Anritsu, with reference to materials from “Public Meeting for Exchanging Opinions on Radio Policy (58th Meeting),” issued by the Ministry of Internal Affairs and Communications (September 21, 2018), as well as other publicly available information.

Appendix-4. 5G terminal development/manufacturing process and test solutions





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