

5G Roadmap for the Global Platform towards 2020 Realization



Chris Pearson
President
5G Americas



The 3rd Global 5G Event on May 24-25, 2017, Tokyo, Japan

5G Americas Mission

5G Americas will advocate for and foster the advancement and full capabilities of LTE wireless technologies and their evolution to 5G, throughout the ecosystem's networks, services, applications and connected devices in the Americas.



Relationships Toward 5G Realization



5G Americas' International 5G Memorandums of Understanding, Relationships and Liaisons



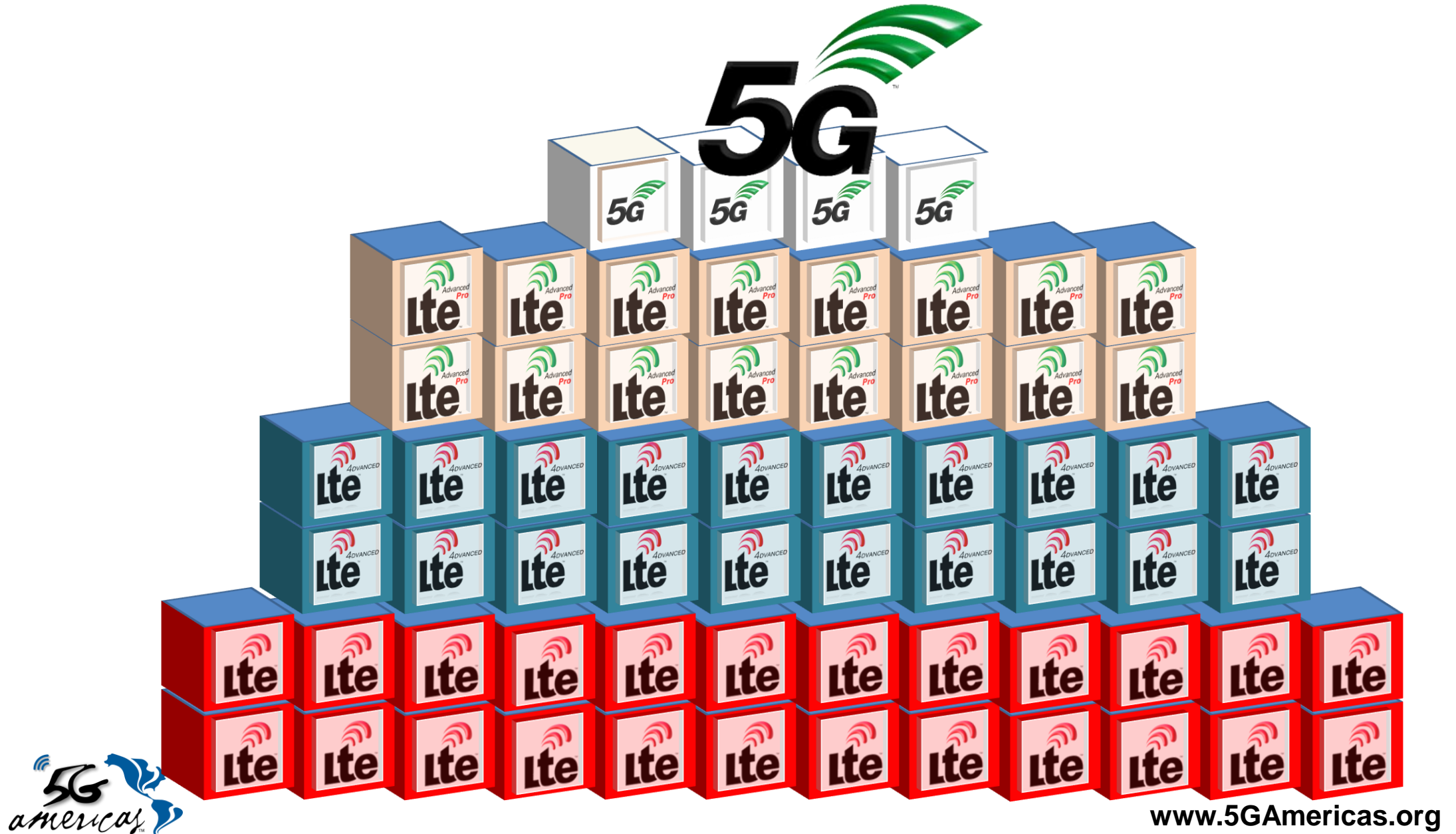
Liaisons, Memberships and Relationships



Building a Technology Foundation for 5G Realization

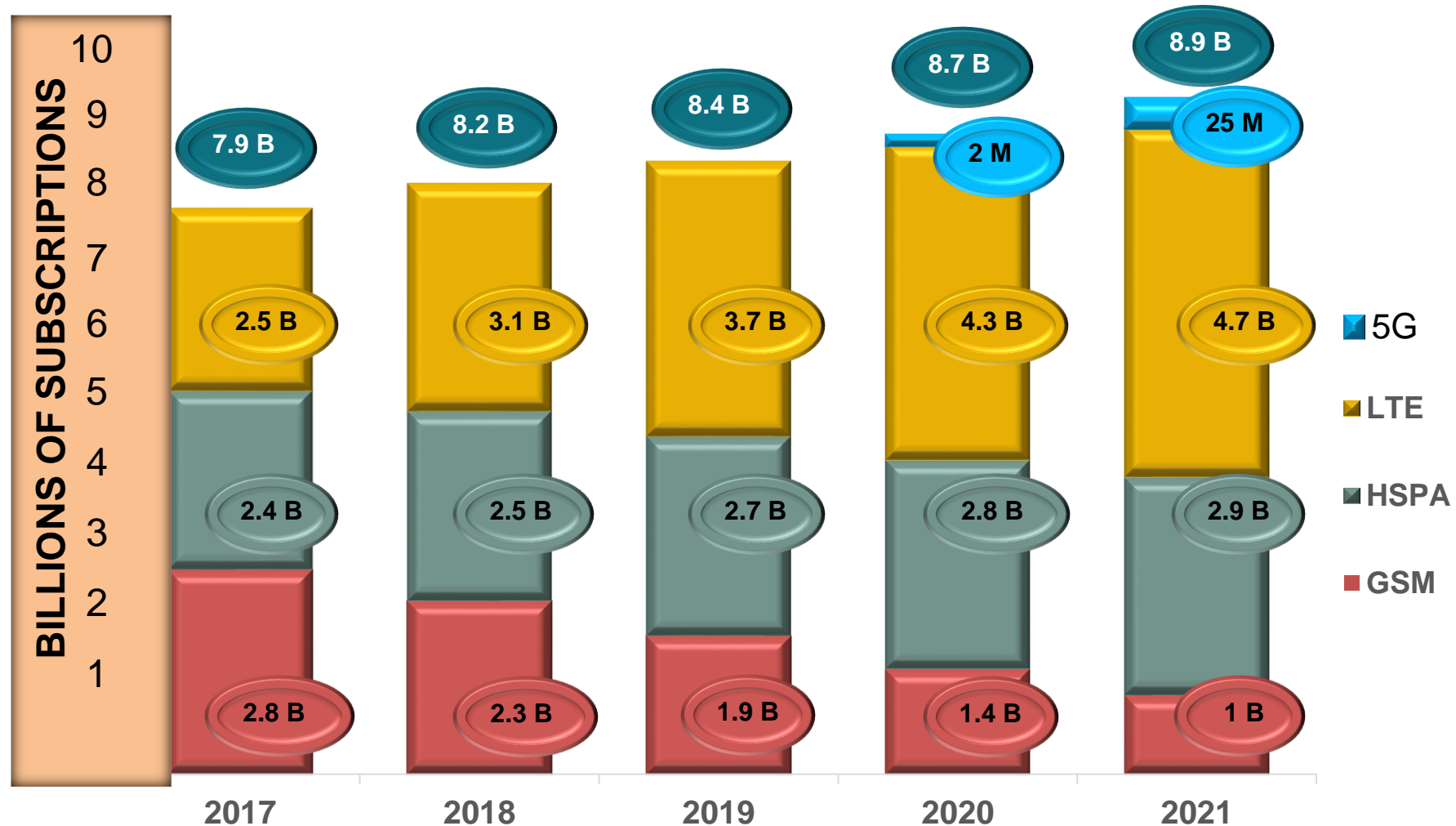


LTE – The Mobile Wireless Foundation for 5G



Global Technology Forecast Subscriptions

2017-2021



Source: Ovum, Dec 2016

www.5GAmericas.org

5G Subscriber Forecasts



5G in 2022

- 550 million 5G subscribers Globally
- 125 million in North America
- 2 million in Latin America

Ericsson Mobility Report, November 2016

5G Forecast

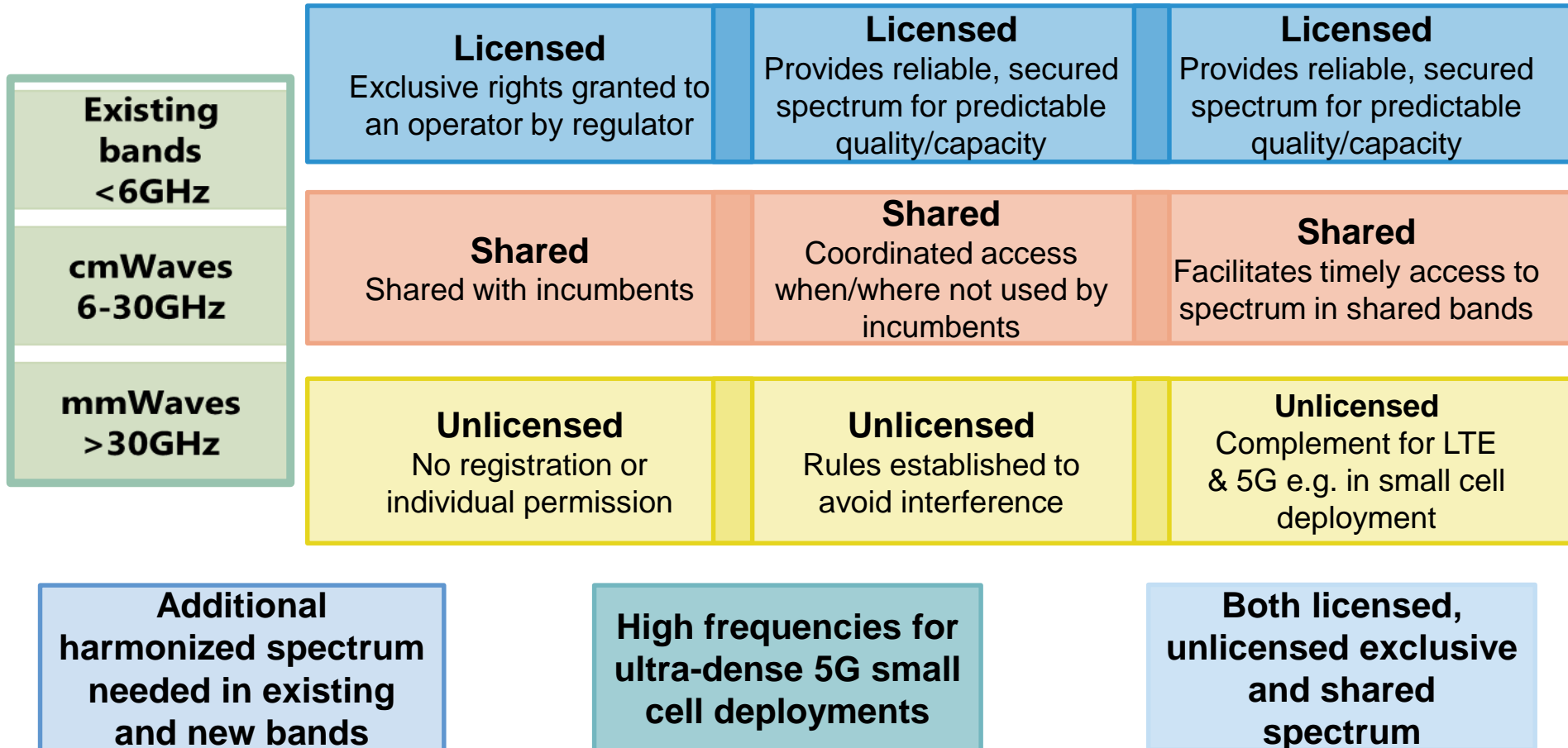
- 2021 subs = 25M Globally
- 2021 North America Region = 11M
- 2021 North America Region = 44% Market Share

Ovum (WCIS) Mar 2017

Spectrum Considerations Toward 5G Realization in the U.S.



Spectrum and the Evolution to 5G

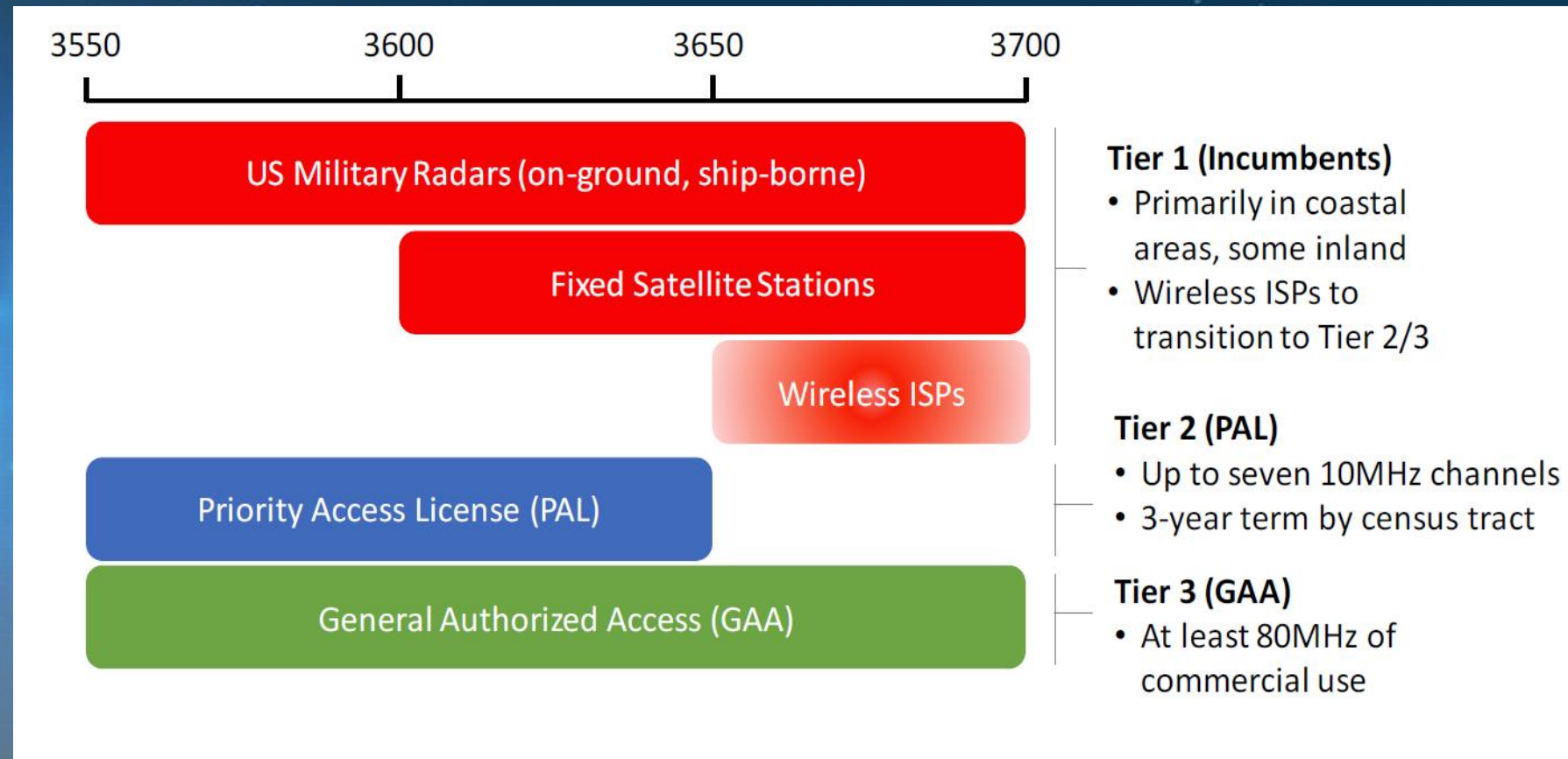


U.S. Broadcast Television Spectrum Incentive Auction

- 600 MHz Spectrum Range
- Over \$19.6 Billion raised
- 84 MHz Spectrum
- 39 Month repacking plan to reshuffle TV spectrum

CBRS Spectrum Framework

3.5 GHz Spectrum



FCC Spectrum Frontiers

FNPRM: Additional Bands for Consideration

| Spectrum | |
|----------|-----|
| 24 – 25 | GHz |
| 32 | GHz |
| 42 | GHz |
| 48 | GHz |
| 51 | GHz |
| 70 | GHz |
| 80 | GHz |

FCC Rules on Spectrum Frontiers

28 GHz

37 GHz

39 GHz

5G Americas Work Program Towards the 5G



5G Americas Technology Recommendations and White Papers



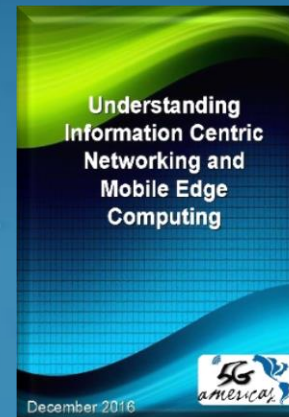
Small cell siting: regulatory and deployment considerations



Understanding the Standards for LTE-Advanced Enhancements



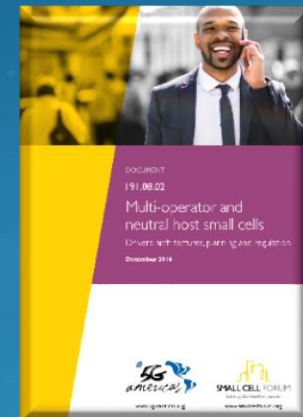
Optimizing Mobile Media Delivery and the Impact of Encryption



Understanding Information Centric Networking and Mobile Edge Computing



LTE and 5G Technologies Enabling The Internet Of Things



Multi-operator and neutral host small cells

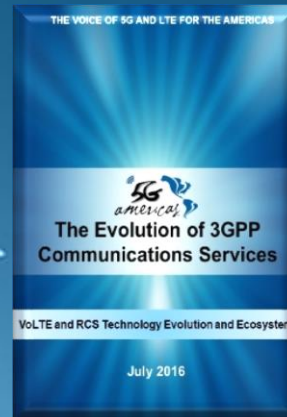
5G Americas Technology Recommendations and White Papers



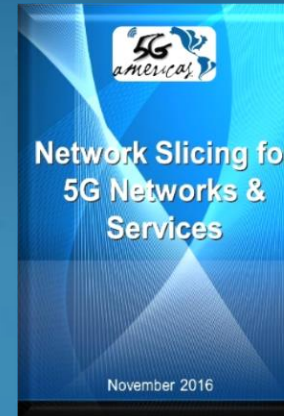
**Multi-operator
and neutral
host small cell
siting**



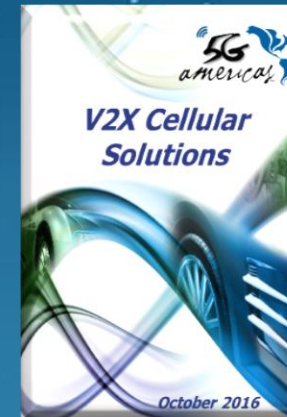
**Mobile
Broadband
Transformation
LTE to 5G**



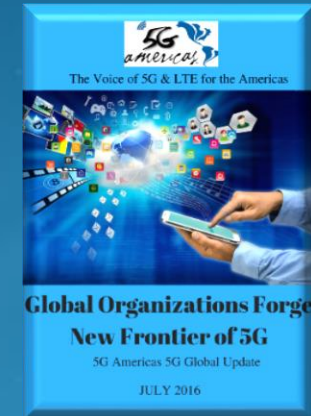
**The Evolution
of 3GPP
Communication
s Services**



**Network
Slicing for 5G
Networks &
Services**



**V2X Cellular
Solutions**



**Global
Organizations
Forge New
Frontier of 5G**



Download free whitepapers at www.5GAmericas.org

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Toward Realizing 5G in 2020!

Thank you!



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