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Ministerio
de Transportes
y Comunicaciones



The DSA 2023 Global Summit

Panel: WRC-23 Decisions that transform the future of Wi-Fi

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2023

WRC-23

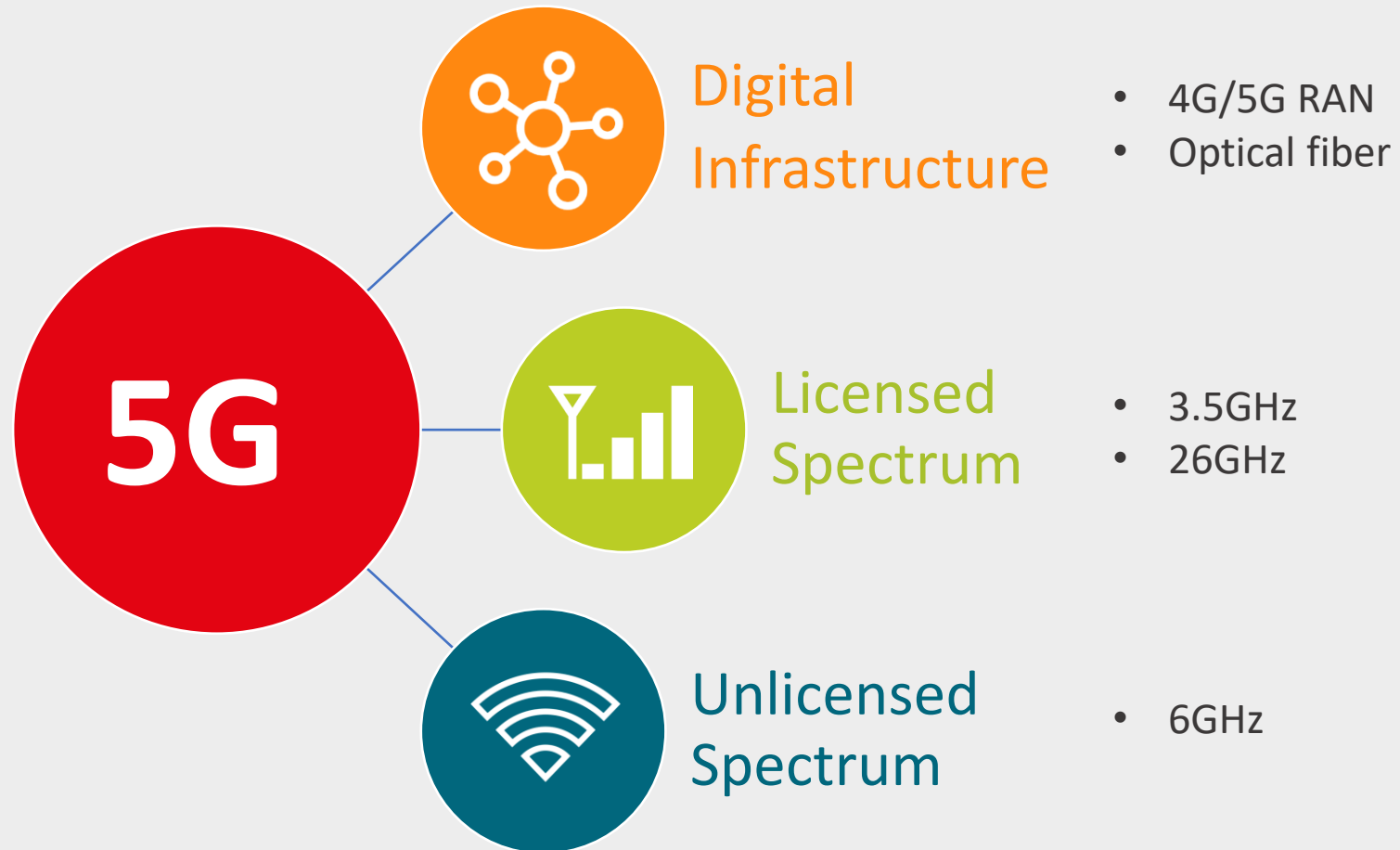
- RESOLUTION 245 (WRC-19): Studies on matters related to the identification of the frequency bands: 3 300–3 400 MHz, 3 600–3 800 MHz, 6 425–7 025 MHz, 7 025–7 125 MHz and 10 0–10.5 GHz for the terrestrial component of International Mobile Telecommunications.
- Resolves to invite the ITU Radiocommunication Sector
- Carry out and complete in time for WRC-23 the sharing and compatibility studies[1] in order to guarantee the protection of the services to which the frequency band is allocated on a primary basis, without imposing additional regulatory or technical limitations on those services, and also, as appropriate, the protection of services in adjacent bands, for frequency bands:
 - 3 600–3 800 MHz and 3 300–3 400 MHz (Region 2).
 - 3 300–3 400 MHz (modification of the existing number for Region 1).
 - 7 025 –7 125 MHz (worldwide).
 - 6 425 –7 025 MHz (Region 1).
 - 10.0 – 10.5GHz (Region 2).

Note:[1] Including studies related to services in adjacent bands, as appropriate

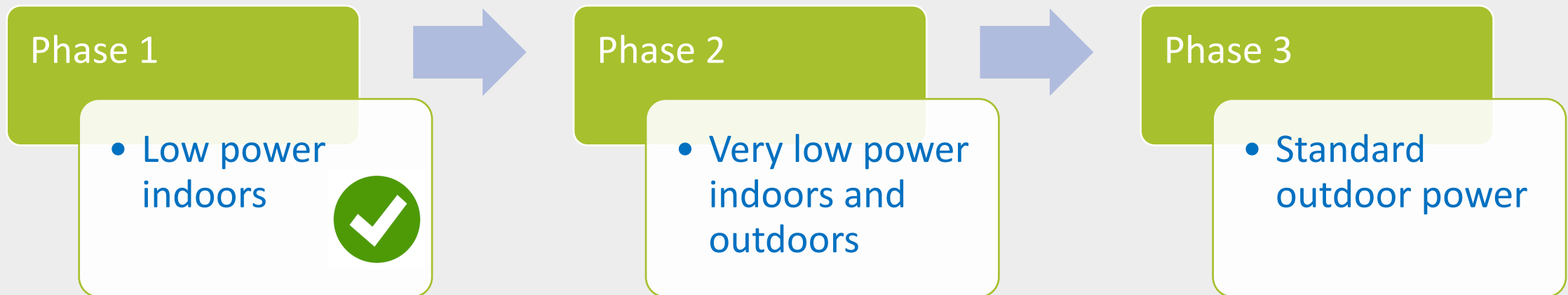


Strategy for the development of 5G

Peru



Phases of implementation of 5 925 – 7125 MHz band



Progress and next steps:

- In March 2021, DGPRC-MTC published a public consultation document on the use of unlicensed spectrum in the frequency range 5925 - 6425 MHz for devices operating at low power indoors.
- As a result of the consultation the MTC decided to adopt 1200MHz for unlicensed use in the 5925 - 7125 MHz band and conditions for indoor use (April 2021).
- We are currently evaluating the very low power outdoor and standard power outdoor use cases.

Phase 1: Low power indoors



Fuente: Dynamic Spectrum Alliance

Access points



30dBm
Power

5 dBm/MHz

Limited power spectral density EIRP.

User devices



24dBm
Power

-1dBm/MHz

Limited power spectral density EIRP.

Considerations for the use of 6GHz spectrum in Peru:

- Outdoor use is not allowed.
- Access points cannot operate on batteries.
- Forbidden to use in cars, buses, trains, drones.
- Among other similar considerations.

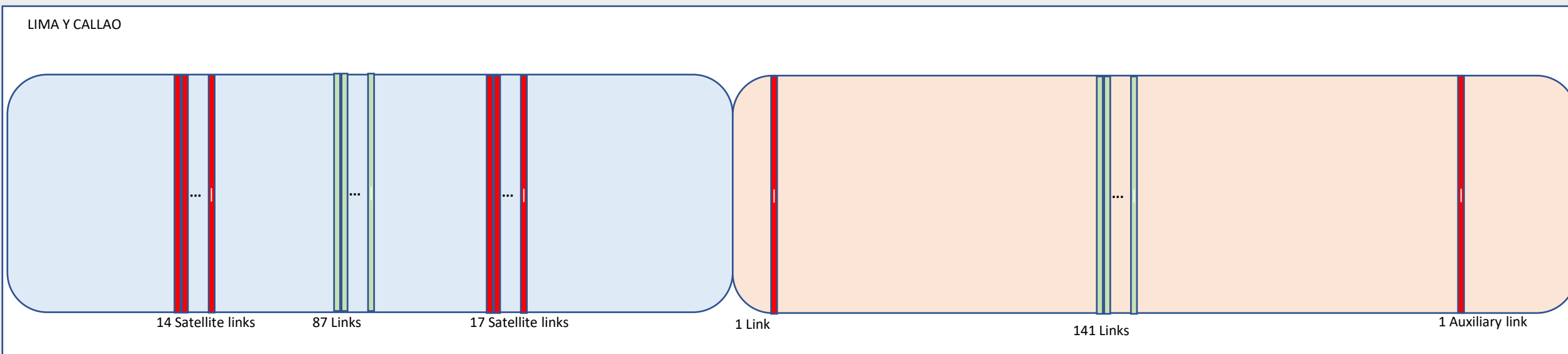
Current state of 6 GHz band – PNAF

5925 - 7125 MHz		
REGION 2	PERU	
	ALLOCATION	NOTES AND OBSERVATIONS
5 925 – 6 700 FIXED 5.457 FIXED-SATELLITE (Earth-to-space) 5.457A 5.457B MOBILE 5.457C 5.149 5.440 5.458	5 925 – 6 700 FIXED FIXED-SATELLITE (Earth-to-space) MOBILE	P92, P92A
6 700 – 7 075 FIXED FIXED-SATELLITE 5.441 (Earth-to-space) (space-to-Earth) MOBILE 5.458 5.458A 5.458B	6 700 – 7 075 FIXED FIXED-SATELLITE (Earth-to-space) (space-to-Earth) MOBILE	P75, P78, P92, P92A
7 075 – 7 145 FIXED MOBILE 5.458 5.459	7 075 – 7 145 FIXED MOBILE	P91, P92, P92A

“P92A The band 5 925 – 7125 MHz is allocated on a secondary basis for fixed and/or mobile telecommunications services for indoor use. Those who make use of the aforementioned frequencies must respect the regulations established by the Ministry. However, this type of service is not used until the MTC establishes the corresponding additional regulations”.

Ministerial Resolution No. 373-2021-MTC/01 approved the allocation of 1200 MHz for RLAN applications

Current state of the 6 GHz bands



5.925 GHz

■ Private service ■ Public service

- Public services**
- Band 5 925 - 6 425 MHz (Fixed service using digital radio links). 8 channels of 29.65 MHz C/U.
 - Band 6 430 - 7 110 MHz (Fixed service using digital radio links) 16 channels of 20 MHz, 40 MHz and 80 MHz each.
- Private services**
- They do not have channeling.

6.425 GHz

- Considerations**
- The public service radio links are reusable in the same district.
 - Satellite systems do not have channeling.
 - Frequency assignments are at the district level and per link in the case of digital radio links.

7.125 GHz



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DIAP about 6 GHz band

DRAFT INTER-AMERICAN PROPOSAL FOR WRC-23. AGENDA ITEM 1.2 (6 425-7 125 MHz) (November 02, 2022)

NOC DIAP/1.2(6GHz)
Support: USA, CTR, DOM

Reason: There are no changes in the Frequency Allocation Table of the band 6 425 – 7 125 MHz to harmonize the license-exempt use of the band. Regulatory harmonization will create economies of scope and scale and produce a strong equipment market, benefiting consumers and national economies around the world. Due to the existing mobile allocation, administrations can deploy and operate mobile service systems and applications (eg IMT or RLAN) based on their national priorities and requirements.

Note:

- Our administration has allocated the entire 6 GHz frequency band for the development of RLAN applications.



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THANKS
