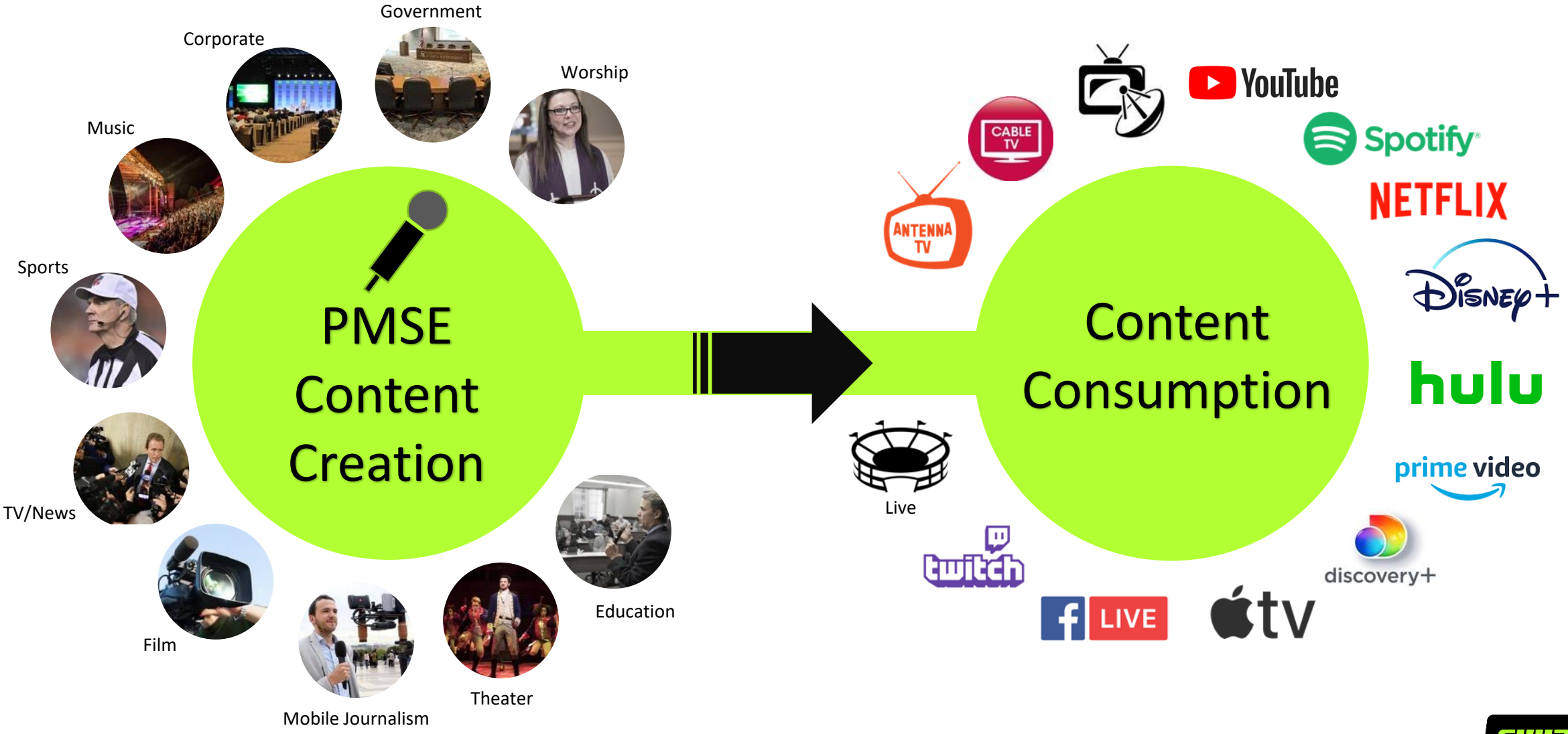
Safeguarding spectrum for content production in the transition to next-generation broadcasting



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Content creation enables consumption



Program Making & Special Events (PMSE)

All content production
Wireless mics are everywhere

Theatre



Film



Press conferences

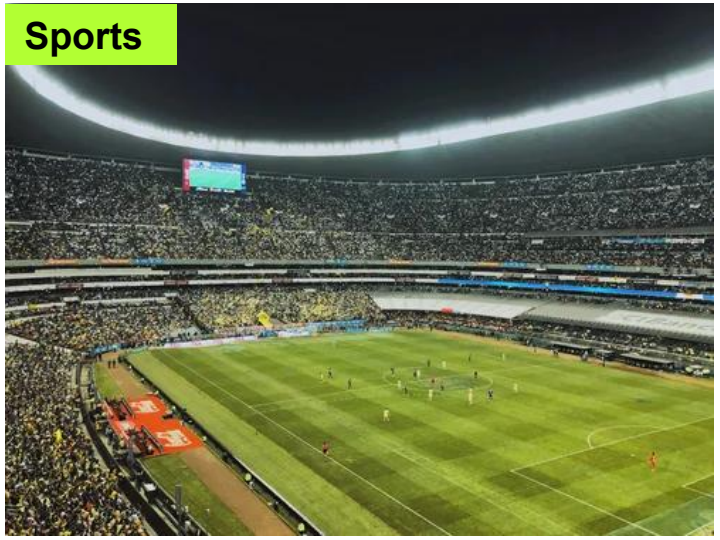




Festivals
(e.g., Viña del Mar - Chile)



Sports



Large-scale events
(e.g., 2016 Rio Olympic Games)



Concerts



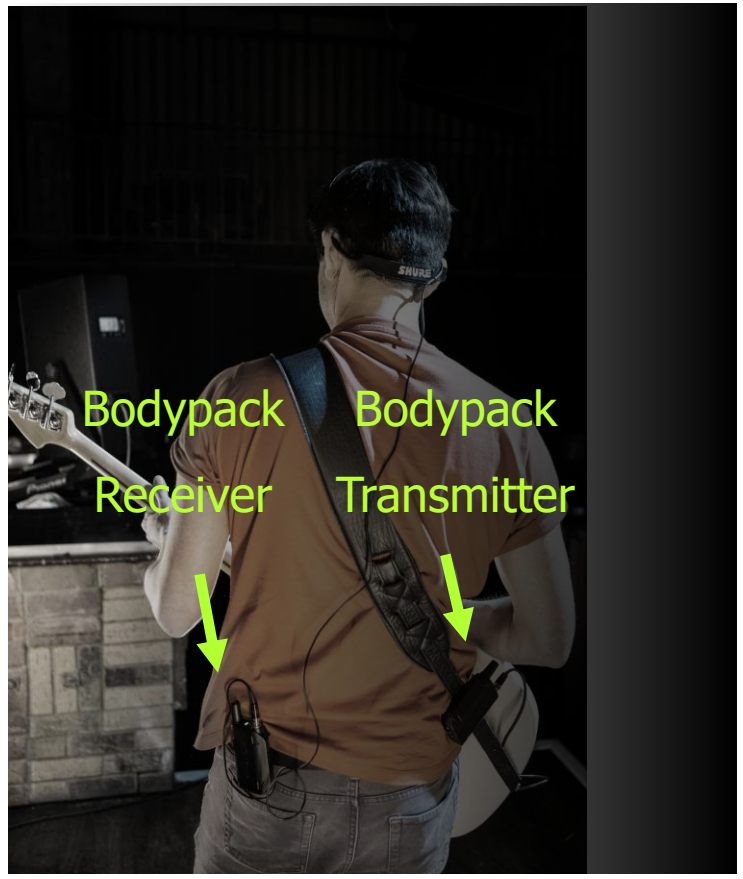


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What we do not always see...











TV-UHF: The core band for audio PMSE

Shared with TV Broadcasting



DTV Block

Audio PMSE

Each white line (200kHz) represents an audio PMSE RF carrier

High-quality audio:

- Interference-free channels
- Low body absorption
- Low latency

TV-UHF: The core band for audio PMSE

Regulatory provisions for audio PMSE

5.296 Additional allocation: in ....**90**....countires in Region 1, **the frequency band 470-694 MHz is also allocated on a secondary basis to the land mobile service, intended for applications ancillary to broadcasting and programme-making. Stations of the land mobile service in the countries listed in this footnote shall not cause harmful interference to existing or planned stations operating in accordance with the Table in countries other than those listed in this footnote. (WRC-23)**

The 470-694/698 MHz band is the main global frequency range for audio PMSE

Report ITU-R M.2563-0 (12/2025)
Overview of regional and global usage of audio programme making and special events as applications in the mobile service



TV-UHF: The core band for audio PMSE

Increasing demand for wireless microphones

+

Continuous shrinking of available spectrum

United States

1997--- 330 MHz Available

470MHz----------806MHz

2008--- 222 MHz Available--- 33% lost

470MHz----------698MHz

2017--- 140 MHz Available --- 58% lost

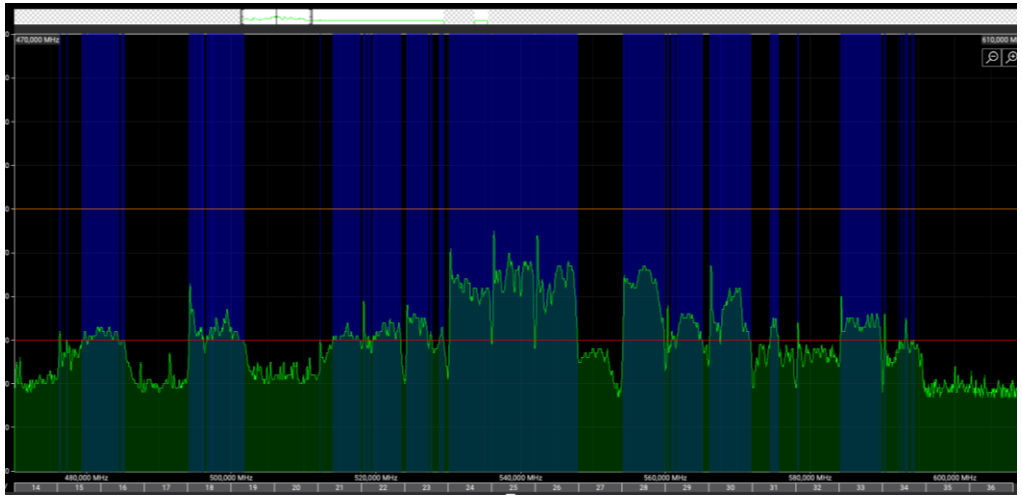
470MHz-----616MHz

2030--- ??? MHz Available

Hard to find spectrum in TV-UHF band for major events without the 600 MHz band

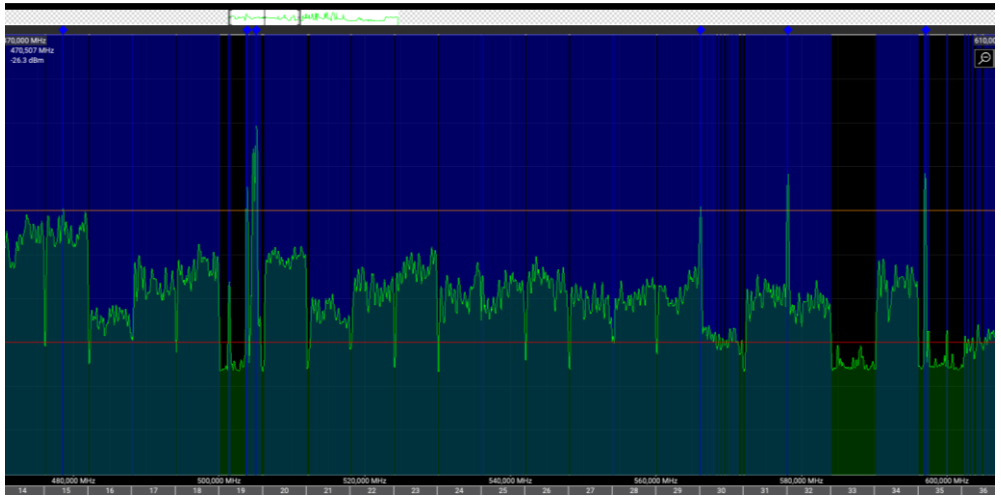
Mexico City

470-616 MHz

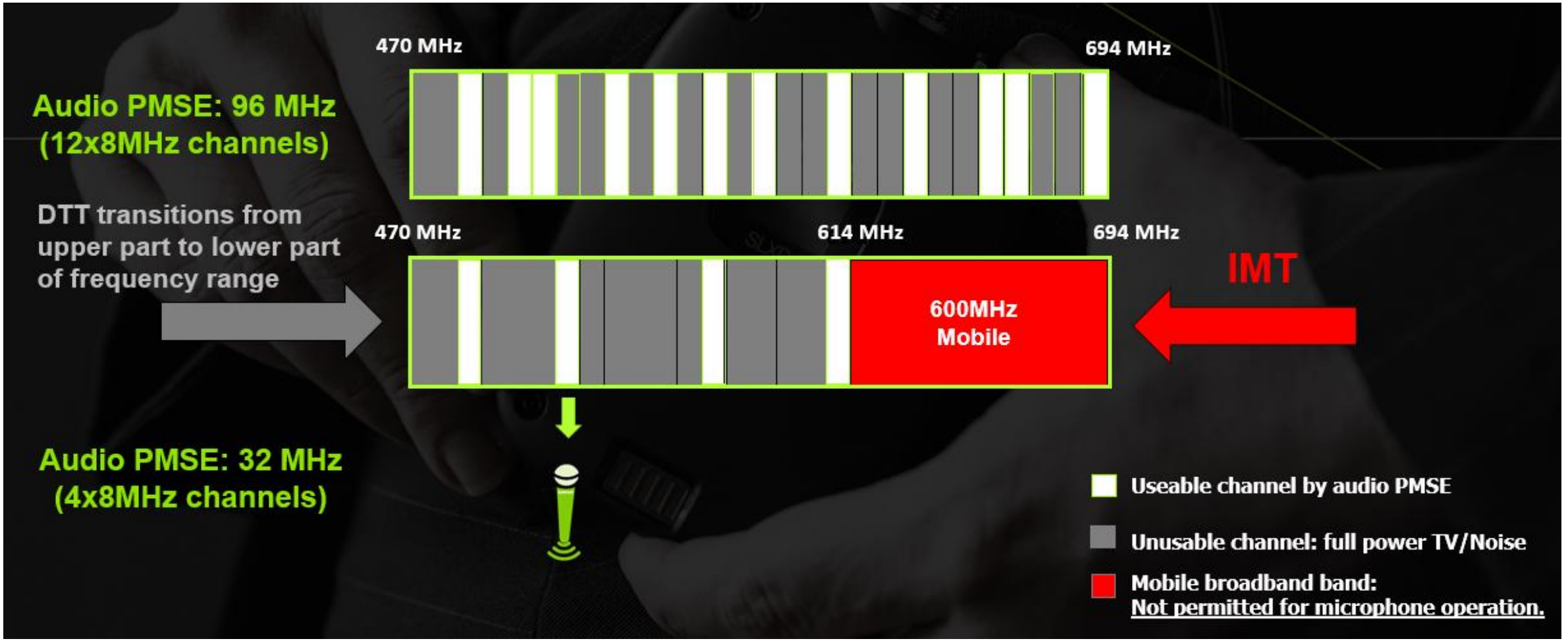


São Paulo

470-616 MHz



Audio PMSE: Impact of 600 MHz band loss



Conclusions

- **Economic impact:** Audio PMSE is vital for the creative content sector and significantly contributes to the economy

- **Spectrum access:** Continued access to enough spectrum in 470-698 MHz range is essential

- **Policy and regulatory integration:** Audio PMSE should be a fundamental part of spectrum policy, with stable solutions for it

- **Spectrum reallocation:** Countries reallocating the 600 MHz band to the mobile industry must have plans for audio PMSE devices

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THANK YOU



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