



Maximising Connectivity: The Spectrum's Vital Role in Technology Access

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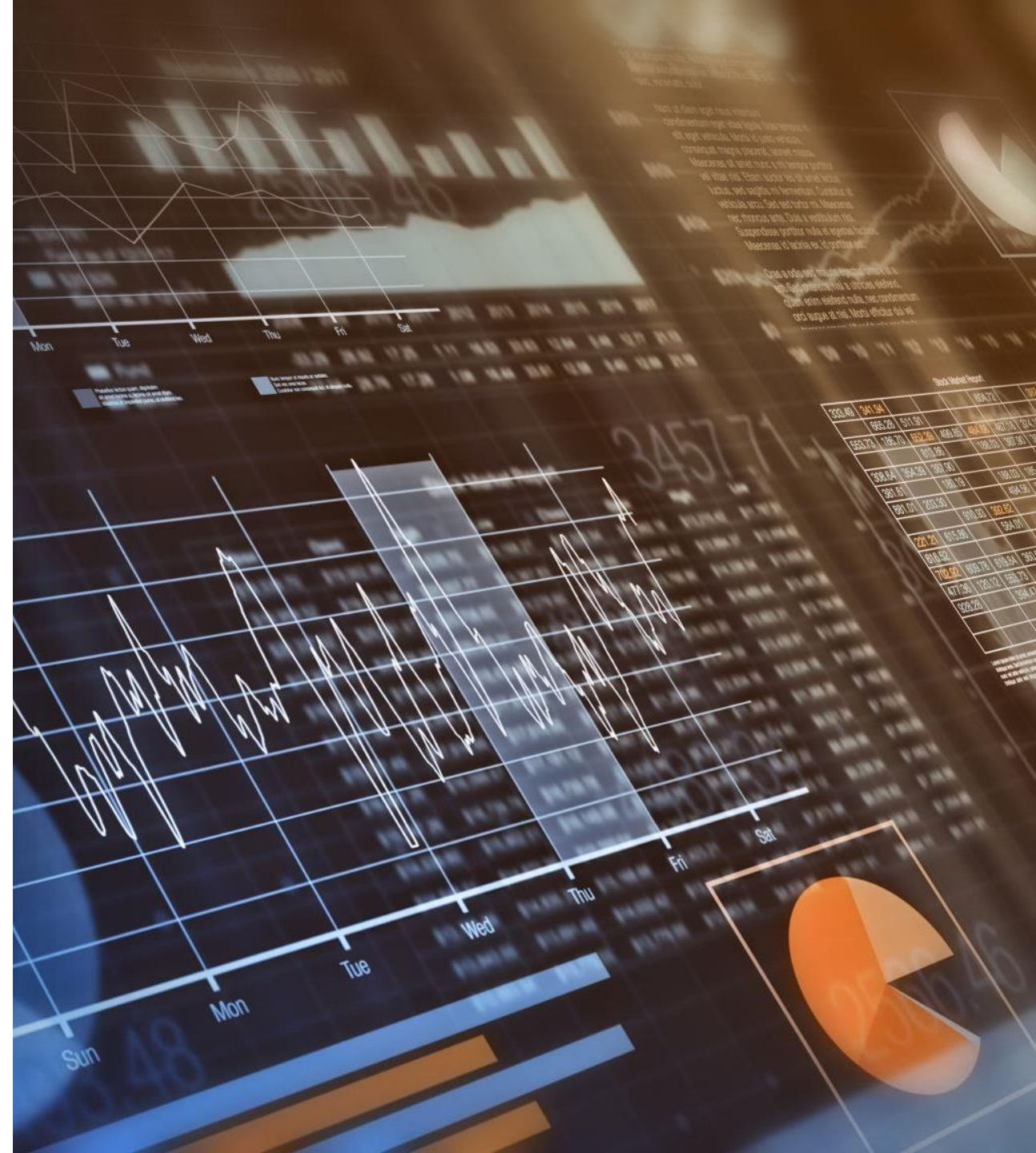
The Crucial Role of Spectrum Allocation in Technology Access

- - Various technologies, from amateur radio, to broadband and mobile internet, need airways to reach people. Those airways comprise the spectrum – a limited, natural resource controlled and managed by governments.
- Different spectrum frequencies have different characteristics that make them suitable for various uses, from satellite communications to Bluetooth systems.



Unlicensed Use of 6GHz and Wi-Fi Protocol

- The 6GHz, part of the C-band, presents a desirable mix of coverage and capacity. Recognising its potential, 6GHz has been opened for unlicensed use, benefiting various technologies and industries, especially Wi-Fi. Wi-Fi's low-cost broadband access has flourished, enabling diverse internet-based applications without costly mobile rates.





Challenges in Spectrum Allocation

- IMT industries want 6GHz for 5G expansion. Getting the 6GHz frequency protected for IMT use via (very expensive) licenses, would eliminate a growing and agile competition from WiFi technology
- Unlicensed spectrum empowers smaller internet service providers and wireless community networks, fostering efficient connectivity deployment and countering market concentration's adverse effects.
- The balance of unlicensed and licenced spectrum is crucial to guarantee technology neutrality

Conclusion: The intersection of geopolitics and markets

- Spectrum allocations directly impact industries and market access. The battle for favourable allocations is as much about technological innovation, as it is about economic power. Nations seek bands that support their industries, aiming to foster innovation, attract investments, and gain competitive advantages in global markets.



Conclusion: The intersection of geopolitics and markets

- Understanding these intersections between geopolitical strategies and market interests is crucial for stakeholders, especially civil society, to advocate for their respective agendas on global connectivity, and meaningful access to communication technologies. The decisions made during this Conference not only pave the way for technological advancements but also shape economic landscapes and global power dynamics.



Thank you

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