



The 6 GHz AR/VR Opportunity

AR/VR changes everything

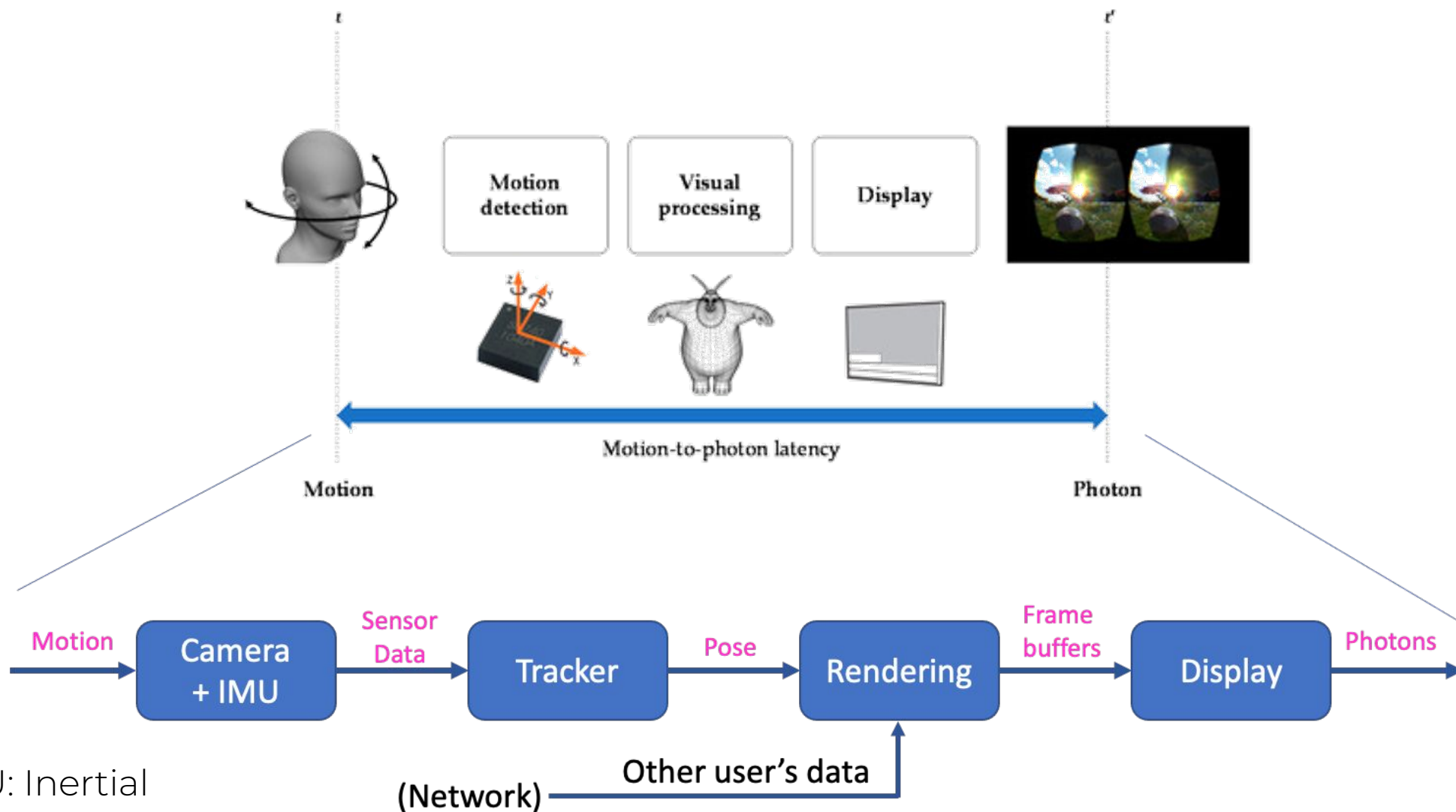
Working in a mine



AR/VR: Creative Africa

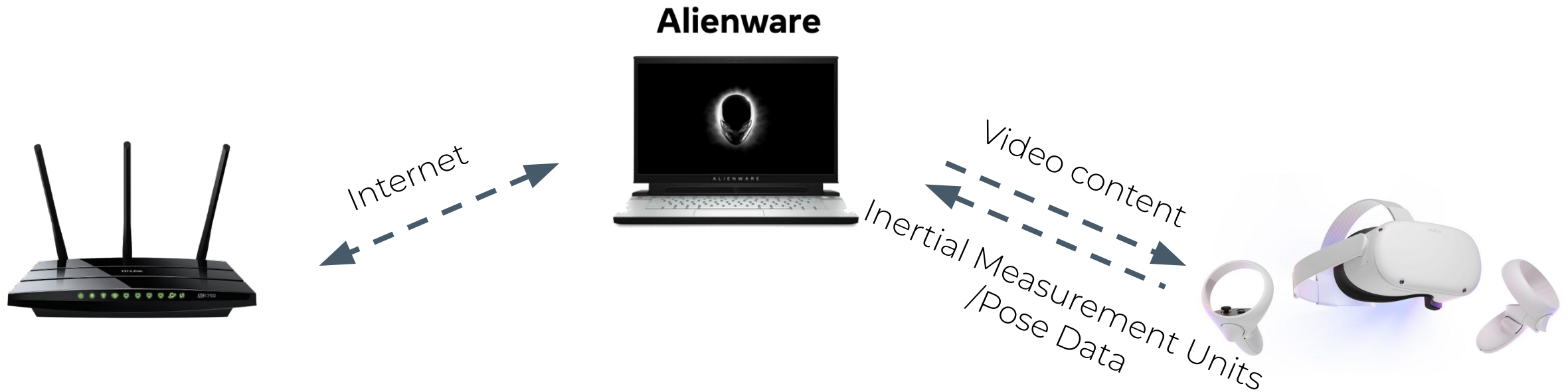


How AR/VR works (1)



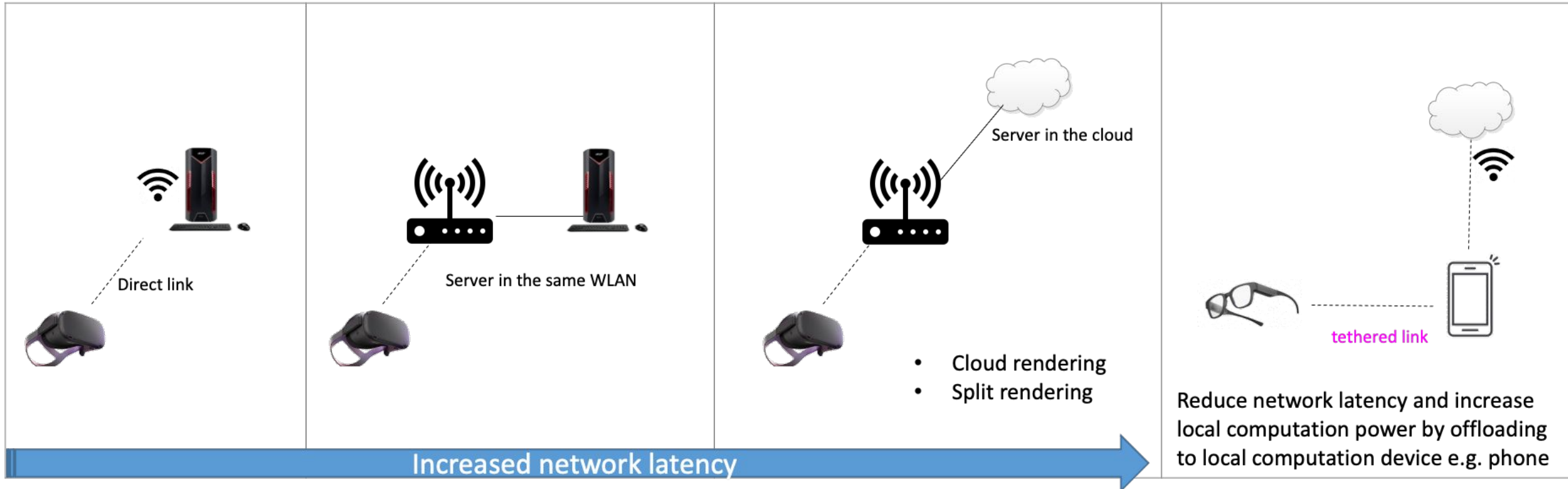
IMU: Inertial Measurement Units

How AR/VR works (2)



VR Rendering relies on Wi-Fi
VR Rendering is interference limited

How AR/VR works (3)



Impact of interference on VR QoE

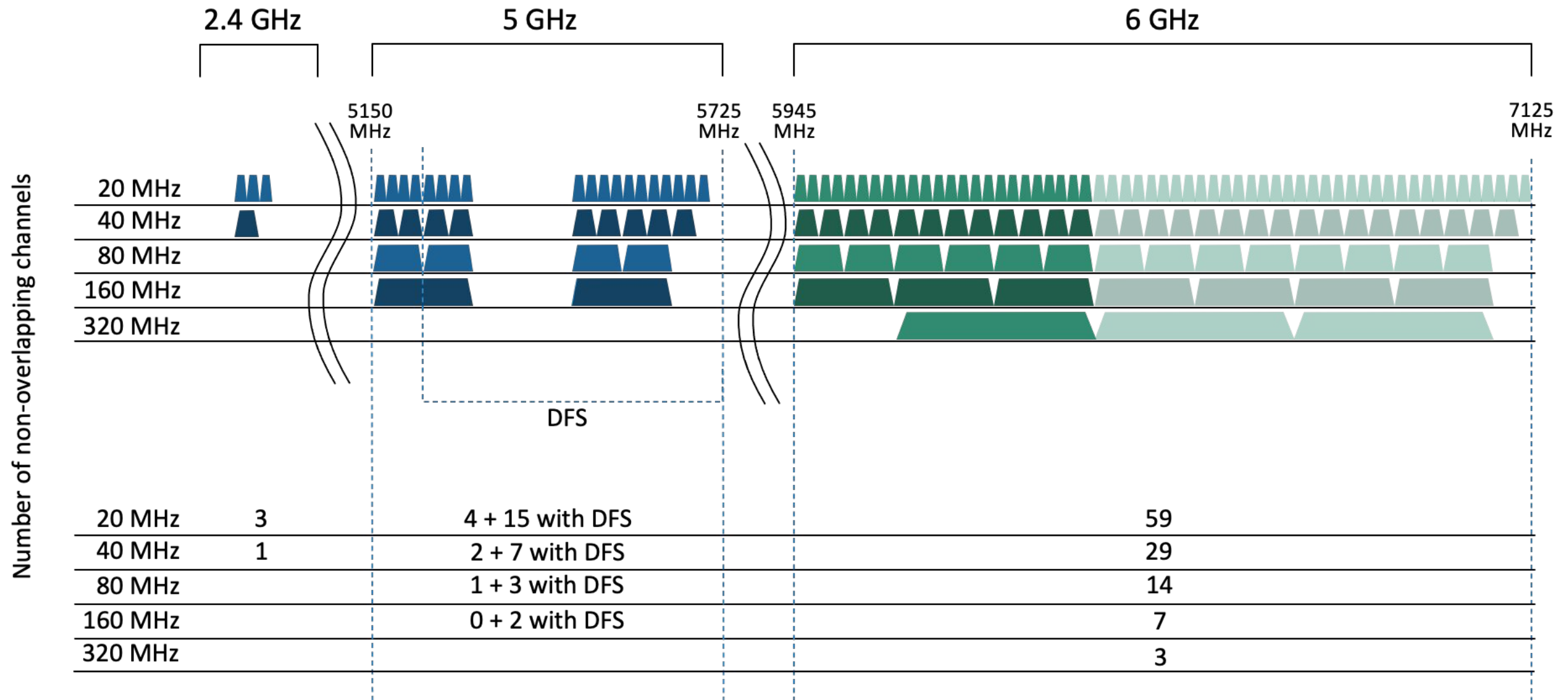


Clean channel

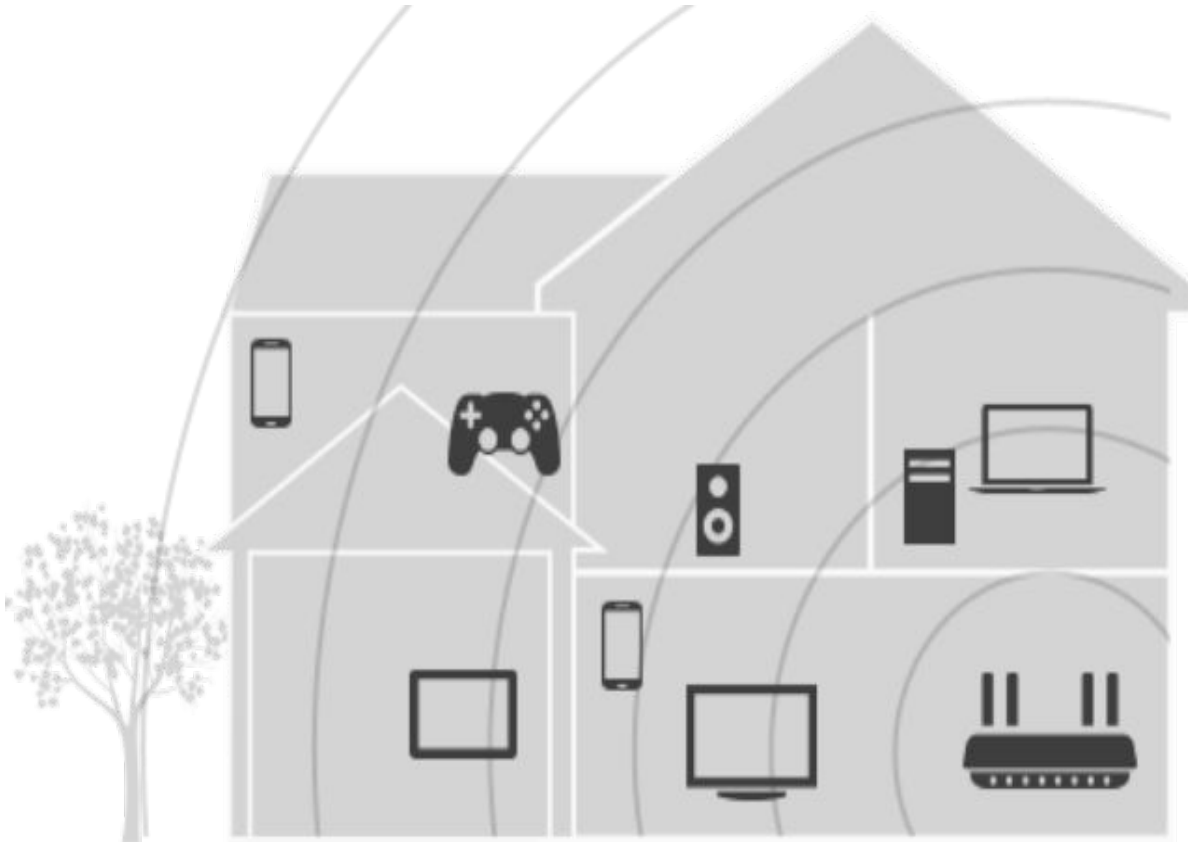


Interference channel

6 GHz Wi-Fi Band enables AR/VR



Wi-Fi @ 6GHz not just for AR/VR



Low Power Indoor Use Cases



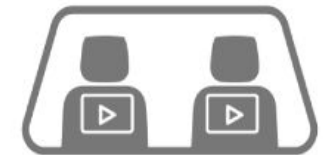
**Mobile
AR/VR**



**UHD Video
Streaming**



**High Speed
Tethering**

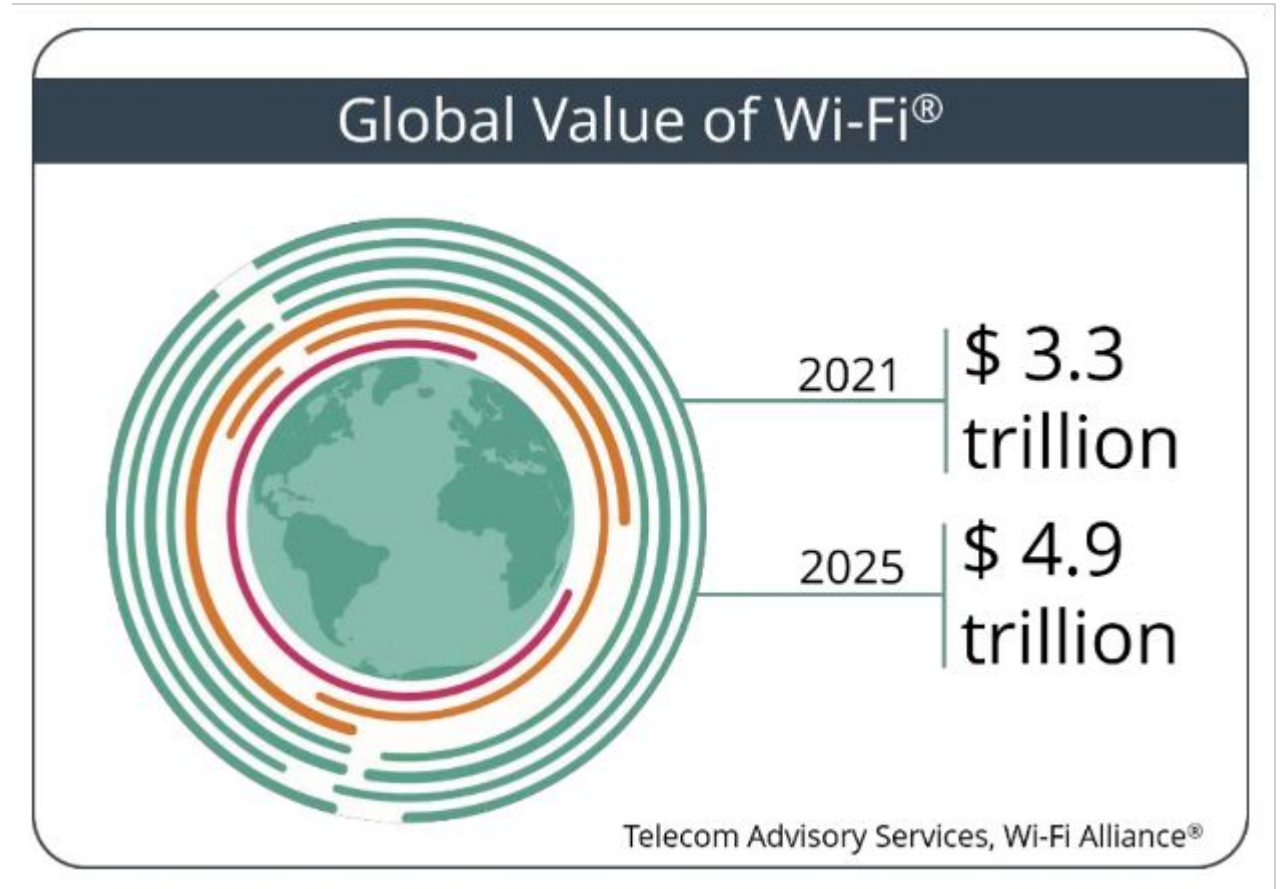


**In-Vehicle
Entertainment**

Very Low Power Use Cases

Value of Wi-Fi for Africa

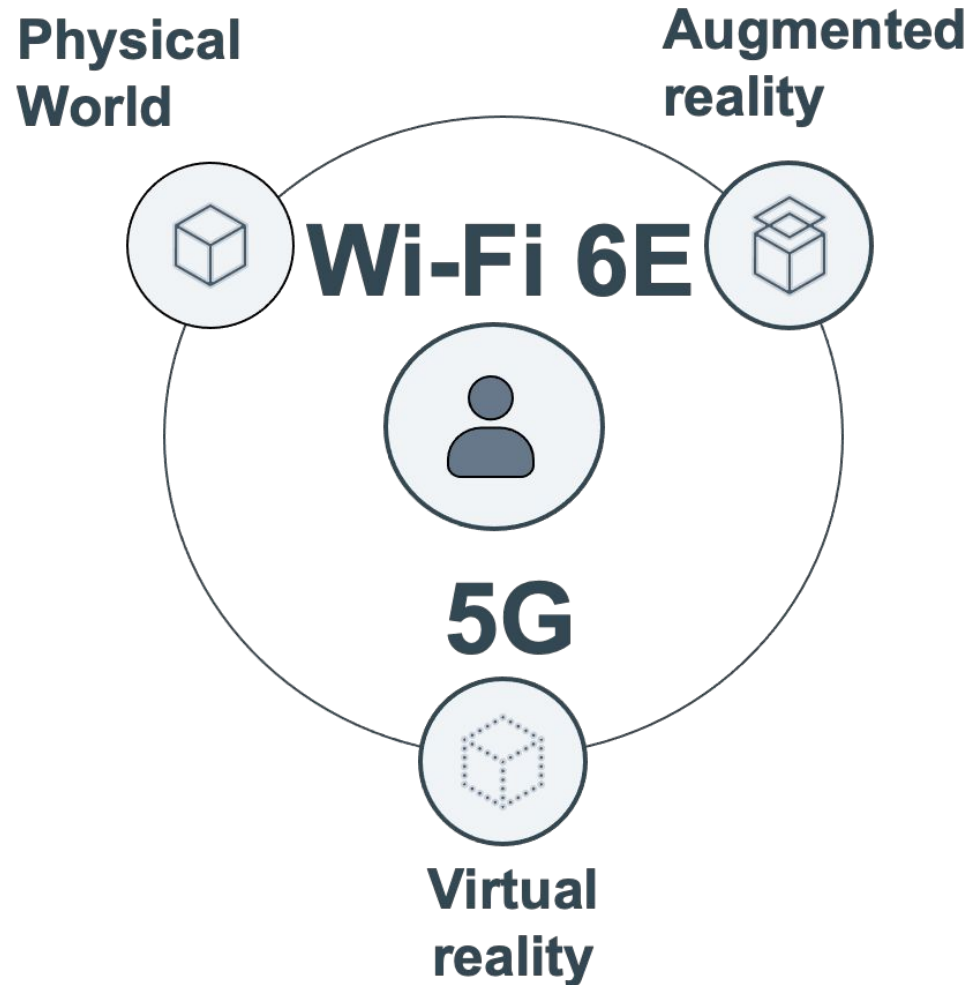
MOROCCO 2021 2025 \$6 \$8 BILLION BILLION		EGYPT 2021 2025 \$9 \$17 BILLION BILLION	
CAMEROON 2021 2025 \$1 \$3 BILLION BILLION	DRC 2021 2025 \$1 \$2 BILLION BILLION	GABON 2021 2025 \$0.6 \$1.2 BILLION BILLION	KENYA 2021 2025 \$12 \$16 BILLION BILLION
NIGERIA 2021 2025 \$16 \$33 BILLION BILLION	SENEGAL 2021 2025 \$1 \$3 BILLION BILLION	SOUTH AFRICA 2021 2025 \$31 \$44 BILLION BILLION	UGANDA 2021 2025 \$1 \$4 BILLION BILLION



Wi-Fi is connectivity, 5G mobility



Wi-Fi and 5G are complementary



Wi-Fi
Capacity, Latency, Power Efficiency
5925-7125 MHz

5G
Coverage and Mobility
3300-3600 MHz

Wi-Fi and Satellite: Cx solutions for Africa

TOGETHER, SATELLITE AND WI-FI CAN HARNESS THE 6 GHZ BAND TO BRING BROADBAND TO UNDERSERVED AREAS

SATELLITES AND WI-FI BRING MORE PEOPLE ONLINE



Together, satellites and Wi-Fi can bring connectivity to people and communities that are underserved by cellular and fixed-line networks.

HOW TO SHARE THE 6GHZ BAND SUCCESSFULLY

Studies show sharing the 6 GHz band between Wi-Fi devices and fixed satellite services is feasible.



Satellite operators are concerned that cellular networks will interfere with their systems. On announcing that it will make the entire 6 GHz band available on licence-exempt basis, the FCC, the U.S. regulator, noted: "The fixed satellite service commenters [...] strongly reject the contention of CTIA and Ericsson that satellite services would not need to be relocated because new licensed services would not cause harmful interference to the satellite services."



6 GHz FOR LICENCE-EXEMPT ACCESS

<http://6ghz.info/>