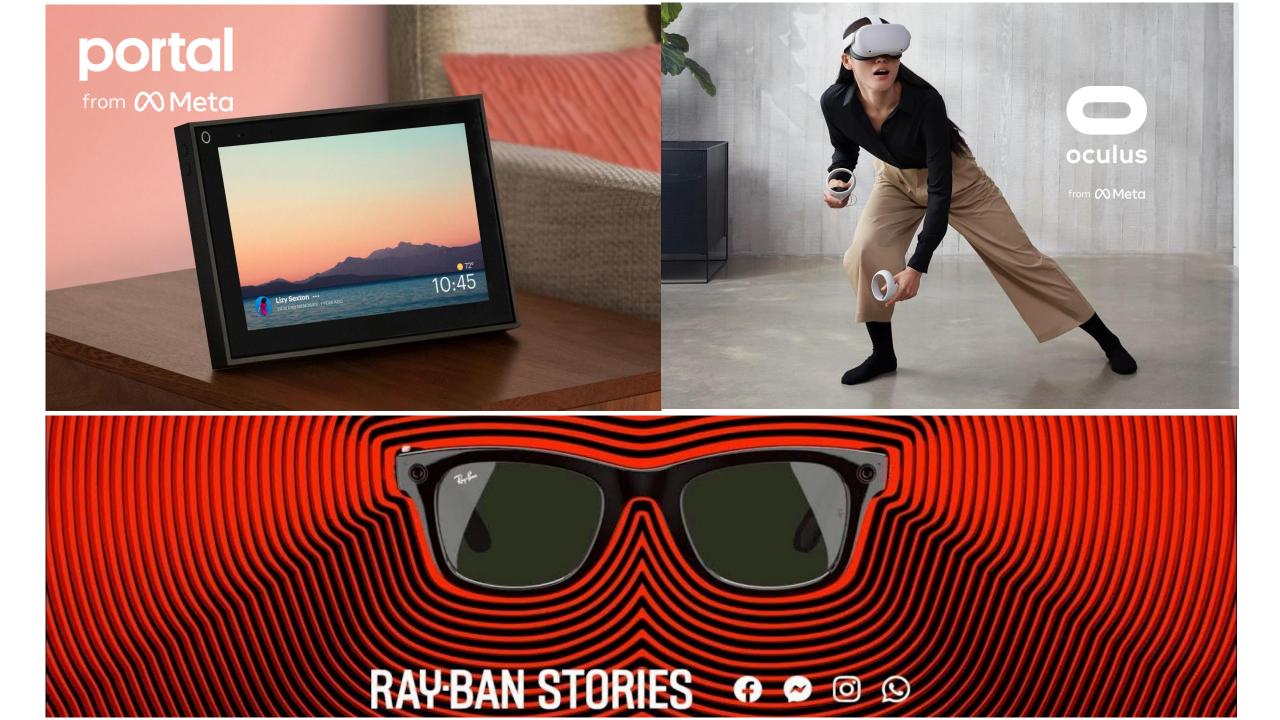
## **Building the Metaverse**

Renuka Rajaratnam – Connectivity and Access, Public Policy Manager, APAC Meta Platforms 2022









Screen images simulated. User experience may vary.

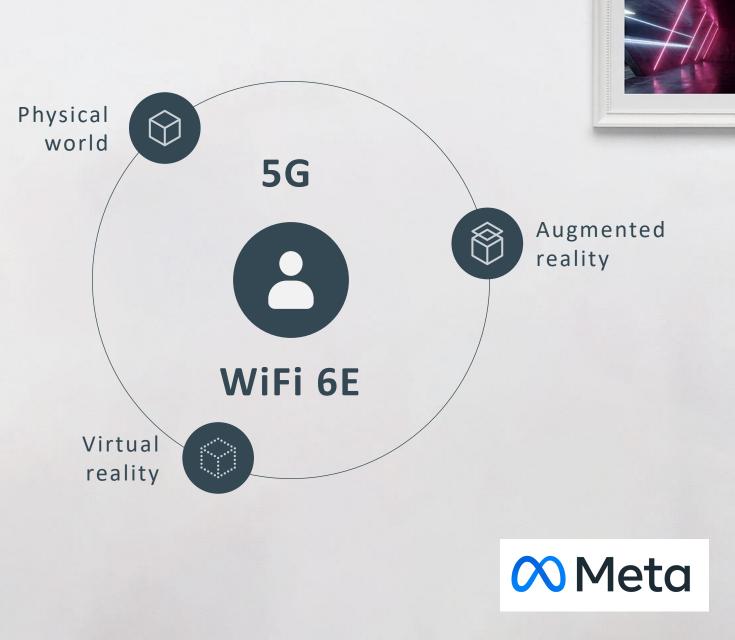
43.10

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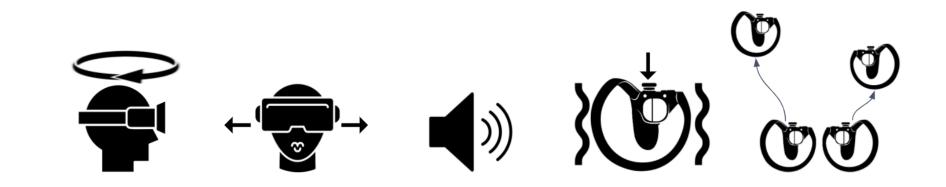
Better Connectivity is key to build connections across worlds







XR Wireless Challenges



AR and VR devices need to operate at speeds acceptable for the human brain

Single digit and low double digit **millisecond values are required** to avoid uncomfortable experiences, enable realism and long usage without side effects

As we go to the cloud or split compute architectures, this becomes an E2E challenge to be solved at device, network and infra level



## **Best Connectivity** will be enabled with 5G and Wi-Fi 6E



As said AR\VR devices will benefit largely of the **high bandwidth** and **low latency** advantages of **5G** and **Wi-Fi 6E and 7** (6 GHz)

VLP (Very Low Power) for Wi-Fi in the 6 GHz band will be essential to enable a new category of interconnected devices providing new "superpowers" to the user

6 GHz will also bring the new "Wi-Fi highways" through a large number of 160 MHz and 320 MHz channels, futureproofing the spectrum to support future traffic increases



