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Las Redes de Nueva Generación y la prospectiva de la tecnología 5G

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OMDIA





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B2C: Video, AR, VR and live sports main revenue earners over 5G



5G-enabled revenues by category – 2020-24 (\$m)



- The mass-market opportunity is based on the **immersive technologies powered by 5G** that will take our digital experiences to the next level and beyond.
- Consumers will be attracted to the immersive technologies that 5G can provide (cloud gaming, VR, AR, and mixed reality).
- Gaming is probably for early adopters, but 5G will inspire new modes of experiencing video entertainment, education, shopping, communicating and even travelling.





4G FWA was not a major competitor to fixed broadband. But 5G's faster speeds and compelling price points make it a real upgrade choice to replace Fixed Broadband of less than 50Mbps cost effectively.





5G Enterprise





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Targeted needs

- Temperature sensors
- Spectrum re-use
- On-premise compute and storage
- Seamless interworking with public network

5G Private Networks

- Real-time asset tracking
- On-device Intelligence
- Local management for low latency and protection of sensitive data
- Real-time collaboration



Private Networks could started with advanced 4G and evolve. As the company transforms itself digitally and puts more demands on its basic applications (lower latency, higher sensor density, etc.) it will naturally migrate to 5G, with the fundamental architecture already in place.

- UHD surveillance
- Reliable robotic control
- Real-time inventory
- AR guided execution





Industrial IoT in 5G









5G revenue growth impact by economic sector, 2020–35



Across all different sectors, 5G-enabled sales will have a different impact, starting at 2.2% and rising to more than 10% for ICT revenue

Source: Omdia, The 5G Economy: How 5G will contribute to the global economy, 2019





5G a productivity booster



5G could contribute a significant productivity jump during the 2029–35 timeframe when the aggregate for the constituent technologies reaches the tipping point at 51% penetration



FIGURE 1. Depiction of Gordon's analysis showing a one-time productivity jump of ~30% during 1940–1950 (115 units pre-1942 to 145 units post-1945).

Source: Bell Labs





Omdia designed a model to estimate the economic and social impact of 5G through 2035 in Latin America



5G Economics and opportunities Impacts: productivity and revenues Latin America GDP and sector breakdown configuration per country







Source: Omdia, based on Omdia and Bell Lab economic models



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Immediate 5G Opportunities in Mexico









| "5G can add up to 1 p.p. | TELECOMUNICACIONES |
|-------------------------------|--------------------|
| (percentage point) to GDP | |
| per year in Latin America on | |
| average due to a productivity | |
| boost. 5G will become a key | |
| driver for economic recovery | |
| in the post-COVID19" | |
| Ullula | |



America tech acceleration: 5G coming sooner than later



- Latin America launched 2G, 3G, and 4G around three years after the global trendsetters did
- Handsets lower prices more quickly, becoming more accessible to the regions' consumers, and markets tend to grow faster, replacing old technologies more quickly
- Each generation has a quicker catch up

Global and Latin America, mobile penetration relative to peak penetration, by generation, 1992–2019





Mobile subscriptions by country and technology (%) 2019-2024



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Source: Omdia

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Thank you! ¡Gracias!

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