GSMA

Future Mobile Spectrum

6G Global Summit
May 2024

SPECTRUM for the benefit of billions



GSMA

Next mobile generations must embrace:

- Universal meaningful connectivity
- Ultra-fast data rates
- Sustainability and UN SDGs
- Energy efficiency

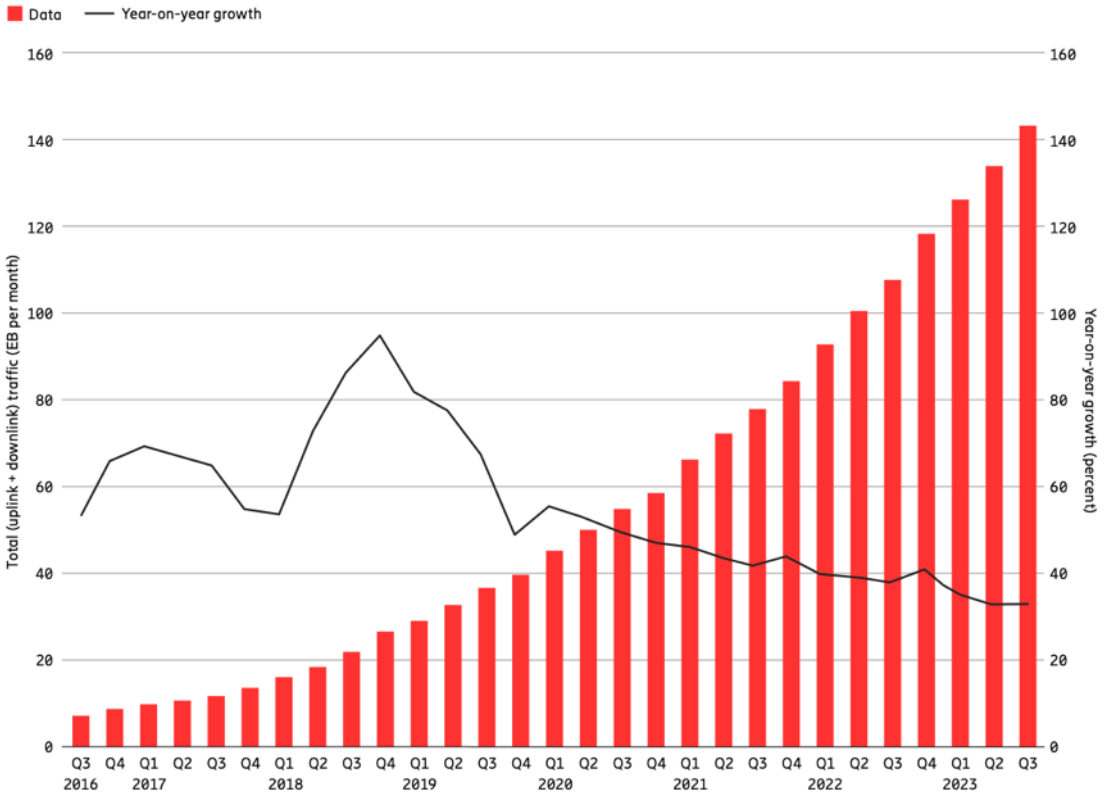
By delivering ever-present intelligent communication, 6G will contribute to the creation of a more human-friendly, sustainable and efficient society.

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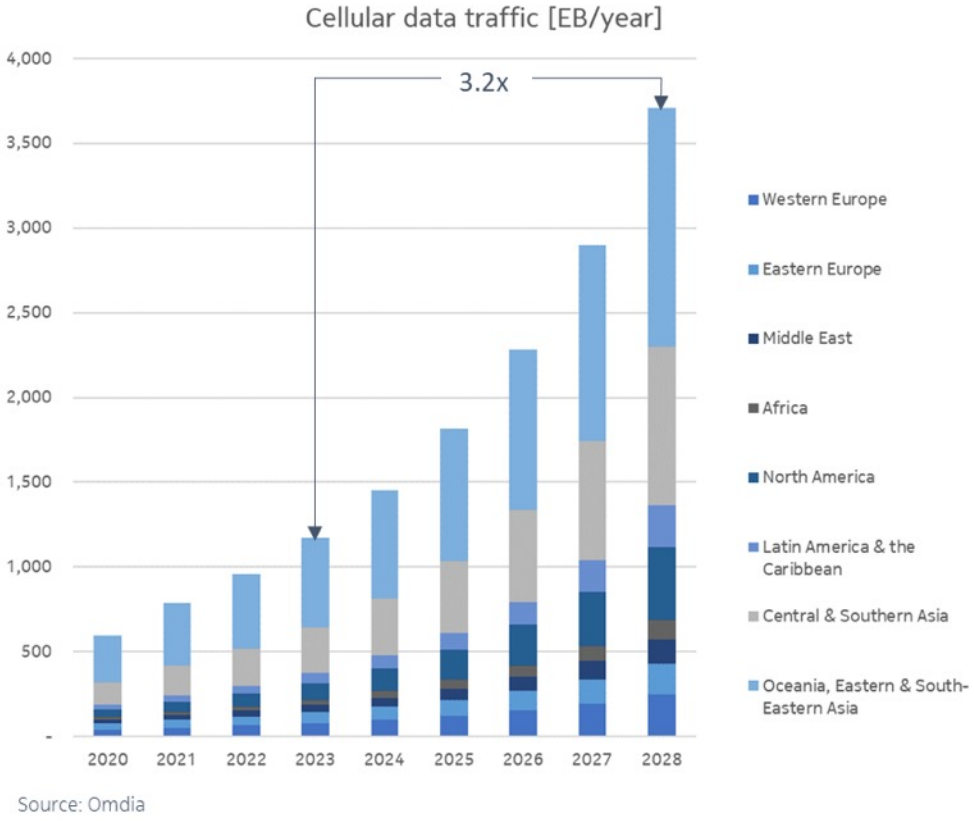
The Growth of Mobile Traffic

Mobile network data and forecasts align on showing growth outstripping technology efficiency gains

Ericsson



Omdia

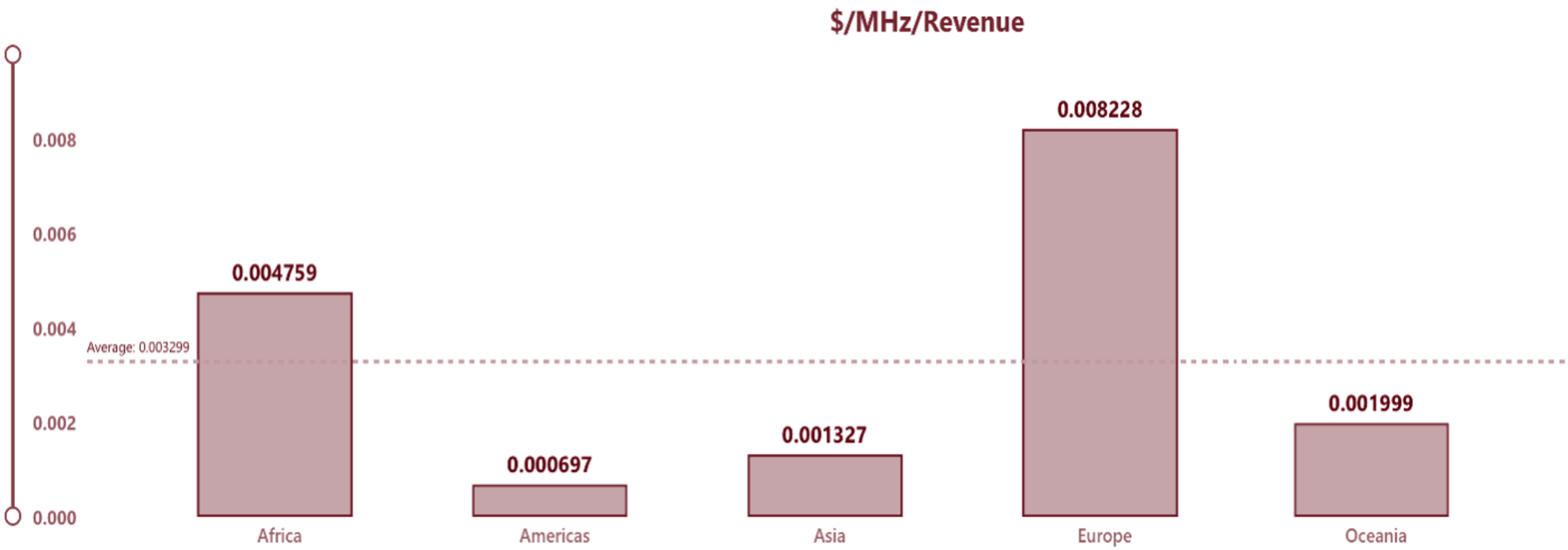


Source: Omdia

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Economic Sustainability

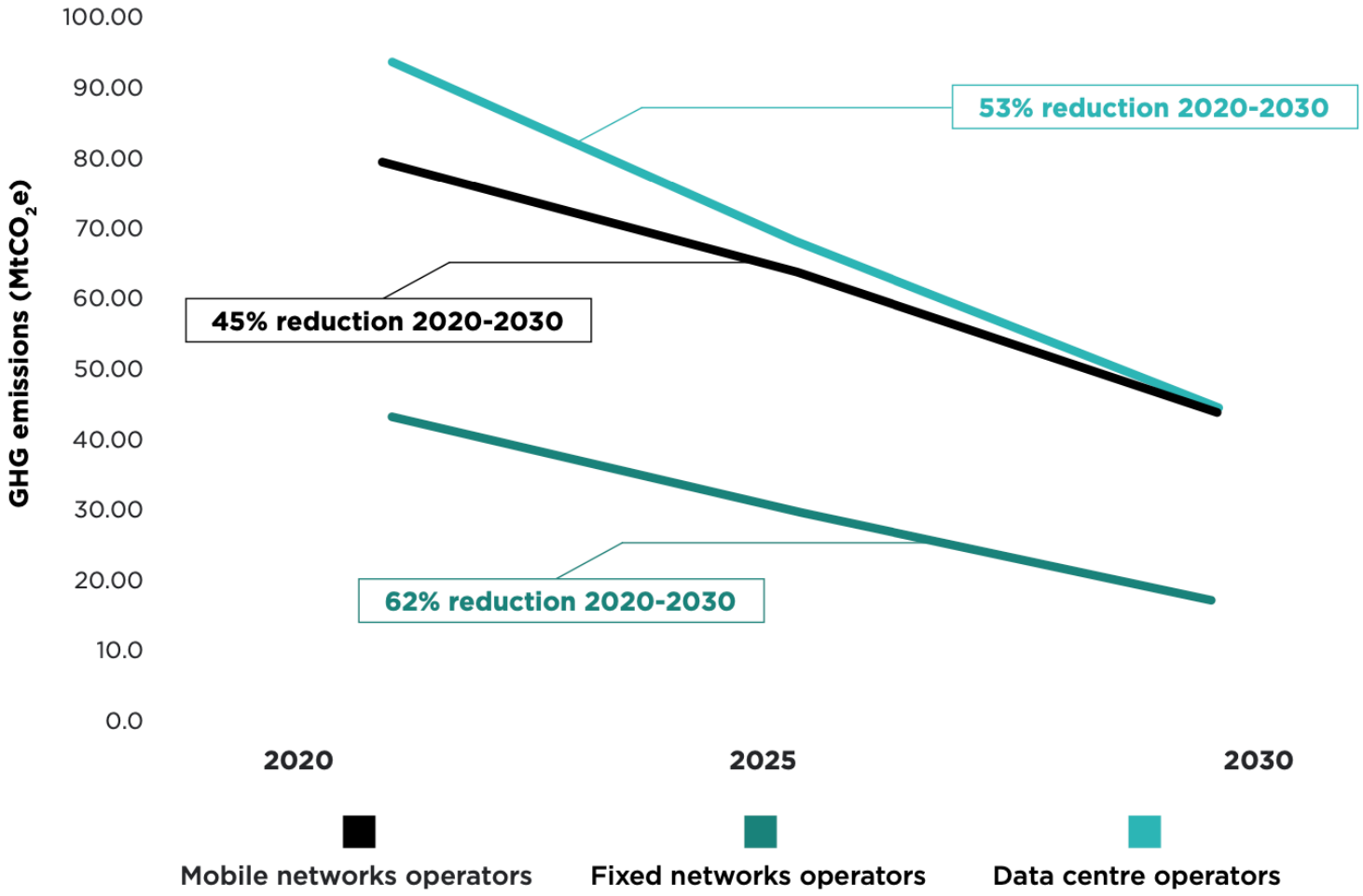
$/MHz as share of revenue 2000-2024



Source - GSMA Intelligence

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Mobile Networks Sustainability



The mobile industry was the first industry to commit to the 17 UN Sustainable Development Goals (SDGs)

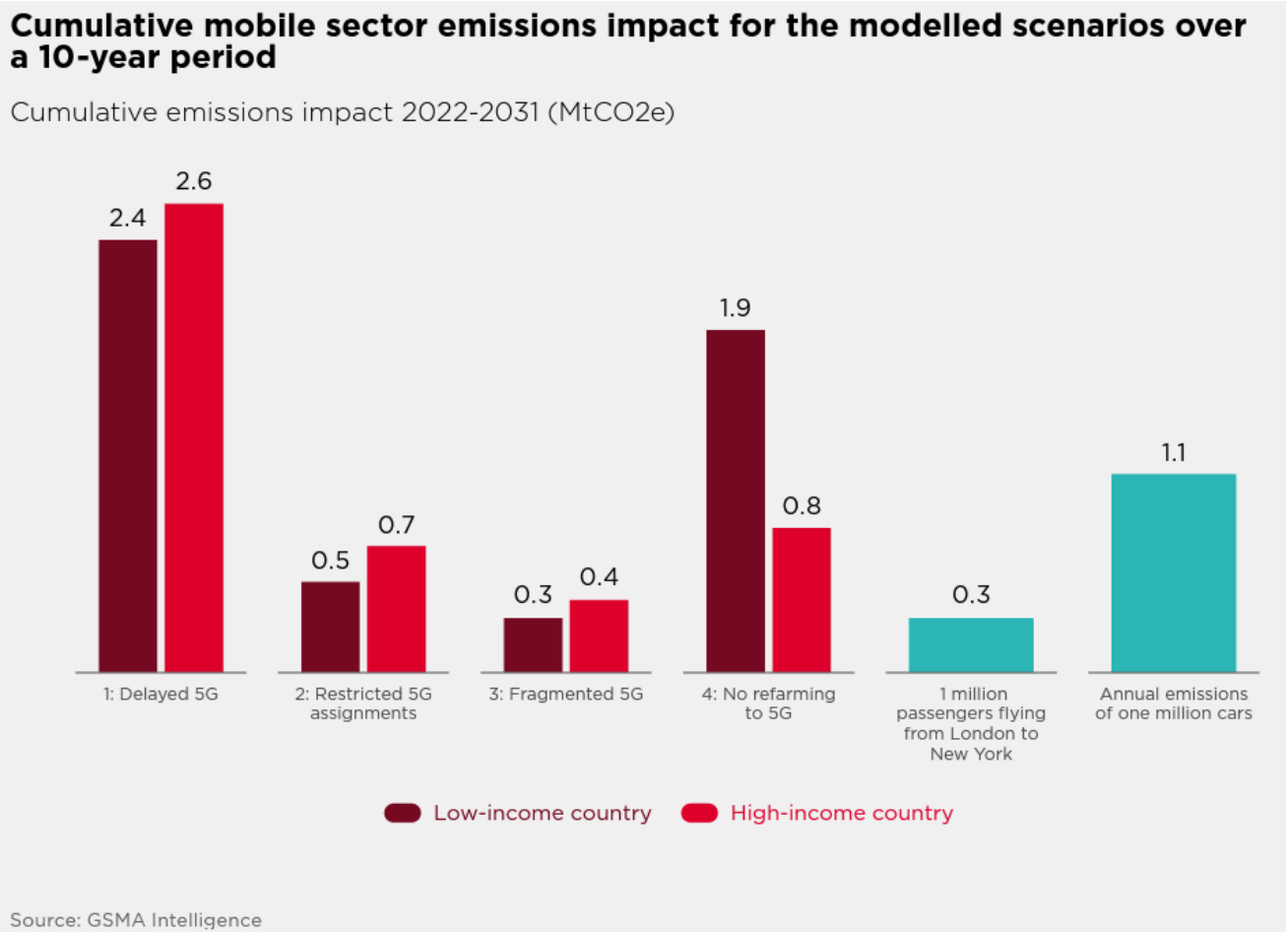
The GSMA works with MNOs to deliver science-based emissions targets

Achieving Climate Targets, GSMA 2023

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Mobile Impact on Global Carbon

Cumulative mobile sector emissions impact for the modelled scenarios over a 10-year period



Spectrum policy leading to efficient radio networks can maximise the economic benefits of mobile connectivity and reduce carbon impacts

In their latest Sustainability report, **Vodafone** (who spend €700 million a year on energy) say that base station sites account for 66% of its global energy consumption

Achieving Climate Targets, GSMA 2023

Spectrum: The Climate Connection, GSMA 2023

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Future Spectrum









WRC-27

4.4-4.8 GHz

7.125-8.4 GHz (or parts of)

14.8-15.35 GHz

Other options (including...)_

470-694 MHz

1427-1518 MHz

3.8-4.2 GHz

6 GHz

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