

Insight Highlights

State of 5G commercialisation and adoption, Q1 2024

DATE

May 2024

GSMA

The GSMA is a global organisation unifying the mobile ecosystem to discover, develop and deliver innovation foundational to positive business environments and societal change. Our vision is to unlock the full power of connectivity so that people, industry, and society thrive. Representing mobile operators and organisations across the mobile ecosystem and adjacent industries, the GSMA delivers for its members across three broad pillars: Connectivity for Good, Industry Services and Solutions, and Outreach. This activity includes advancing policy, tackling today's biggest societal challenges, underpinning the technology and interoperability that make mobile work, and providing the world's largest platform to convene the mobile ecosystem at the MWC and M360 series of events.

We invite you to find out more at www.gsma.com

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GSMA Intelligence

GSMA Intelligence is the definitive source of global mobile operator data, analysis and forecasts, and publisher of authoritative industry reports and research. Our data covers every operator group, network and MVNO in every country worldwide – from Afghanistan to Zimbabwe. It is the most accurate and complete set of industry metrics available, comprising tens of millions of individual data points, updated daily.

GSMA Intelligence is relied on by leading operators, vendors, regulators, financial institutions and third-party industry players, to support strategic decision-making and long-term investment planning. The data is used as an industry reference point and is frequently cited by the media and by the industry itself.

Our team of analysts and experts produce regular thought-leading research reports across a range of industry topics.

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5G commercialisation: state of play

Latest quarter (Q1 2024)

Operator update

In Q1 2024, **12** new operators launched commercial 5G networks:

- 5G for both mobile and FWA use:
1 operator
- 5G for mobile-only use (no FWA):
10 operators
- 5G for FWA-only use (no mobile):
1 operator.

Market update

In Q1 2024, **5** countries launched 5G networks for the first time (American Samoa, Côte d'Ivoire, Lesotho, Senegal and Somalia).

To date (up to Q1 2024)

Operator update

By the end of Q1 2024, **295** operators had launched commercial 5G networks:

- 5G for both mobile and FWA use:
113 operators
- 5G for mobile-only use (no FWA):
164 operators
- 5G for FWA-only use (no mobile):
18 operators.

Market update

By the end of Q1 2024, **114** countries had launched 5G networks.

By 2030

Operator update

By the end of 2030, **652** operators will have launched commercial 5G networks for mobile use.

Market update

By the end of 2030, **225** countries will have launched 5G networks for mobile use.

5G commercialisation: global overview



Note: Status assigned where an operator has stated a commitment/timeline (planned) or announced a commercial 5G launch (live). Status is defined as live where at least one operator has commercially launched (mobile/fixed) 5G services.

Live commercial
5G network

Planned commercial
5G network

Data correct to 31 March 2024
For updates, see [gsmainelligence.com](https://www.gsmainelligence.com)
Source: GSMA Intelligence

**GSMA
Intelligence**

5G adoption: state of play

Latest quarter
(Q1 2024)

New 5G mobile
connections: **140 million**

To date
(up to Q1 2024)

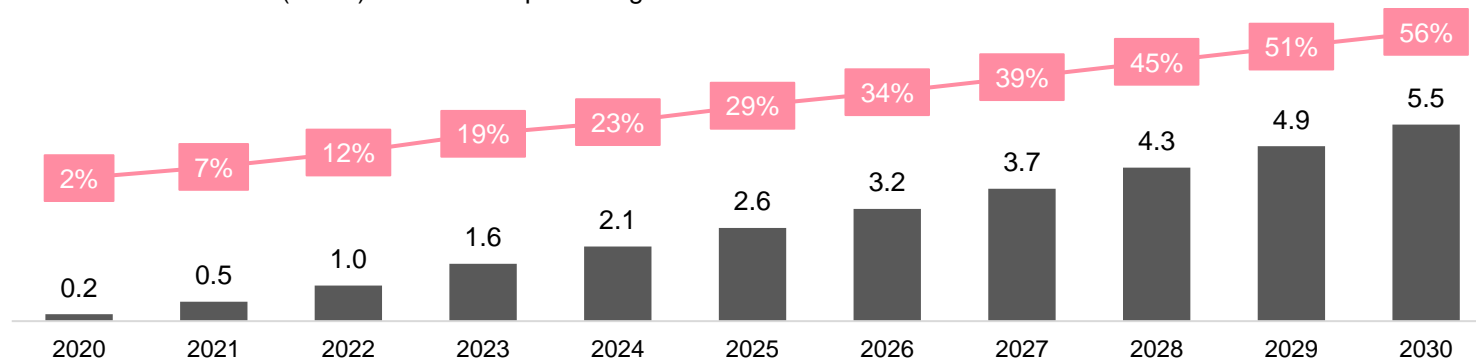
Total 5G mobile
connections **1.7 billion**

By 2030

Total 5G mobile
connections: **5.5 billion**

5G adoption globally

5G mobile connections (billion) and 5G as a percentage of total mobile connections



Source: GSMA Intelligence

Access GSMA Intelligence content on 5G

Data

GSMA Intelligence provides a comprehensive, interactive and user-friendly data platform. It enables custom searches across a range of 5G metrics (at the global, regional, country and operator levels), including:

- 5G networks: trials, launches and coverage
- 5G spectrum: completed and planned assignments
- 5G adoption: 5G mobile connections, 5G as a share of mobile connections, 5G net additions, 5G connections growth rate, 5G operator market share
- 5G standalone networks: completed and planned launches
- 5G FWA: completed and planned launches.

Consumer insights

Drawing on an annual global consumer survey, GSMA Intelligence provides insights into 5G user behaviour across a range of areas, including 5G upgrade intent, barriers to 5G adoption, 5G consumer experience, 5G ARPU uplift, consumer interest in 5G use cases and 5G bundling, 5G user engagement with digital activities such as digital entertainment, 5G mobile data usage, 5G as a smartphone purchase driver and 5G churn.

Reports on 5G

- [The 5G-Advanced era: the importance of 5G's evolution for the mobile core](#)
- [The State of 5G in 2024](#)
- [5G adoption and mobile ARPUs: is there a connection?](#)
- [5G FWA resonates in the US but is its early success replicable elsewhere?](#)
- [5G and network transformation: five trends to watch in 2024](#)
- [Consumer 5G: user behaviour offers new opportunities, but monetisation at scale is still a work in progress](#)
- [Will 5G new calling breathe new life into mobile voice services?](#)

How to gain access

If you already subscribe to GSMA Intelligence content, you can access a range of data and reports on 5G. As GSMA Intelligence analyses 5G progress across several areas (e.g. consumer, households, enterprises), some 5G insights may not be included in your current subscription.

If you don't have a subscription to GSMA Intelligence content, or if you can't access some of the content, please contact our account managers to learn more:

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