GSMA MEMBERSHIP
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OUR MISSION

Today’s societal, economic and environmental challenges have never been more complex, and the mobile industry is crucial to solutions that bring about true change.

We believe, the GSMA has a role to play in creating a thriving society that is affordable, accessible and reliable for everyone.
OUR VISION

To unlock the full power of connectivity so that people, industry and society thrive.
We’re a member-led organisation, unifying the end-to-end connectivity ecosystem.

From mobile operators to the development sector – we work with more than 1000 companies.
OUR VALUE PROPOSITION

The GSMA unites the mobile industry around a common agenda to unleash innovation to create a positive business environment and to produce real societal change on a global scale.
THE GSMA IN NUMBERS

1987
The GSMA was founded

5.2bn+
unique mobile subscribers

2016
we’re the first sector to commit to the UN Sustainable Development Goals

$600bn
annual 5G contribution to global economy in 10 years

10.1bn+
cellular connections worldwide (including IoT)

Connecting 15,500 experts through InfoCentre2 – our online community for members

100m+
lives impacted through Mobile for Development

10.1bn+
telecommunications accounts worldwide

30m
data points included in GSMA Intelligence’s database

GSMA Membership: 1000+
mobile operators & companies in the broader ecosystem

Nearly 200,000 attendees worldwide come to our MWC and Mobile 360 Series events

Over 600 meetings in the past year amongst the GSMA Working Groups

2.7m
visitors to MobileWorldLive.com

1.2bn
mobile money accounts

75%
of the global fixed broadband market is represented by GSMA members

100m+
Unique mobile subscribers

10.1bn+
Cellular connections worldwide (including IoT)

100m+
Lives impacted through Mobile for Development

1.2bn
Mobile money accounts

75%
Global fixed broadband market represented by GSMA members

2.7m
Visitors to MobileWorldLive.com

1000+
GSMA Membership

Nearly 200,000
Attendees worldwide

Over 600
Meetings in past year

30m
Data points

$600bn
5G contribution to global economy in 10 years

5.2bn+
Unique mobile subscribers
WE CONVENE THE INDUSTRY, CHAMPION ITS VALUE AND UNIFY ITS ECOSYSTEM

Creating a common agenda
We unify the global mobile ecosystem, representing mobile operators and organisations across the mobile and adjacent industries.

Leading industry innovation
Our technical Working Groups bring together industry leaders and policymakers to innovate and action ideas that will have a positive global impact.

Ensuring representation
We work with governments, UN Agencies, NGOs and international organisations to amplify the industry’s viewpoints.

Convening the connectivity ecosystem
Our MWC Barcelona, Shanghai and Las Vegas events are the epicenter of innovation.

Engaging the industry
We develop tightly-knit communities at our GSMA forums, seminars and facilitated meetings called working groups.

Standardising solutions
We turn ideas into solutions, with frameworks and standards in commercial, operational and technical matters.
WE FOCUS ON PLATFORMS AND PROJECTS THAT ARE ESSENTIAL TO ACCELERATE TECHNOLOGY AND A BETTER WORLD

5G
External Affairs
Artificial Intelligence
Live Media & TV Online
Ministerial Programme
Strategy
Roaming
Policy & Regulatory
Mobile for Development
Networks
Mobile Money
Live & Virtual Events
IoT
SIM Technology
RCS
Data Intelligence
Security
Identity
**THE GSMA BOARD HAS 26 MEMBERS, REPRESENTING THE LARGEST OPERATOR GROUPS AND INDEPENDENTS WITH GLOBAL REACH**

<table>
<thead>
<tr>
<th>Company</th>
<th>Member</th>
<th>Position</th>
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<tbody>
<tr>
<td>Telefónica</td>
<td>José María Álvarez-Pallete, Chairman &amp; CEO, Telefónica</td>
<td>GSMA Board Chair</td>
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<td>verizon</td>
<td>Rima Qureshi, Executive Vice President &amp; Chief Strategy Officer</td>
<td>GSMA Board Deputy Chair</td>
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<td>AT&amp;T</td>
<td>Susan Johnson, Executive Vice President, Global Connections &amp; Supply Chain</td>
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<td>axiata</td>
<td>Izzaddin Idris, Group CEO</td>
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<td>bharti</td>
<td>Gopal Vittal, CEO</td>
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<td>China Mobile</td>
<td>Gao Tongqing, Executive Vice President,</td>
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<td>China Telecom</td>
<td>Liu Guiqing, Executive Vice President</td>
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<td>Deutsche Telekom</td>
<td>Mal Yanzhou, Senior Vice President</td>
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<td>Christian Salbaing, Deputy Chairman, Europe</td>
<td>Dominique Leroy, Board Member for Europe</td>
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<td>Mats Granryd, Director General</td>
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<td>Jio</td>
<td>Mathew Oommen, President &amp; Member of the Board of Directors</td>
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<td>vodafone</td>
<td>Ahmed Essam, Chief Commercial Operations &amp; Strategy Officer</td>
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<td>KT</td>
<td>Hyeonmo Ku, President &amp; CEO</td>
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<td>MTS</td>
<td>Vyacheslav Nikolaev, President &amp; CEO</td>
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<td>docomo</td>
<td>Motoyuki Ii, President &amp; CEO</td>
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<td>Singtel</td>
<td>Yuen Kuan Moon, Group CEO</td>
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<td>STC</td>
<td>Olayan Alwetaid, Group CEO</td>
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<td>TELSTRA</td>
<td>Andrew Penn, Group CEO</td>
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<td>TIM</td>
<td>Pietro Labriola, CEO &amp; General Manager</td>
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<td>Orange</td>
<td>Michael Trablia, Chief Technology and Innovation Officer</td>
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<td>VODA</td>
<td>Kaan Terzoğlu, Group Co-CEO</td>
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<td>América Móvil</td>
<td>Varlos M. Jarque, Executive Director America Móvil; International Relations and Government and Corporate Affairs</td>
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<td>KDDI</td>
<td>Makoto Takahashi, CEO</td>
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**GSMA**

Membership offers unparalleled access to the latest industry data, best practices, decision-makers and communities.

**Connect with over 15,500 GSMA member contacts**

GSMA members fuel their businesses by the connections, documentation, resources and industry expertise accessed through GSMA’s secure online platform - InfoCentre2.

**Participate in global decision making**

Through the GSMA Working Groups, members can work together with peers to address industry priorities, to promote industry perspectives, collaborate & harmonise – and engineer the future of connectivity and services.

**Access to key decision makers in the connectivity industry**

GSMA Membership gives you the platform to enhance the profile of your business and promote your brand on the world stage, connect through GSMA communities, working groups or events, as well as promotion through the online member directory, profiles of success stories and white papers, plus invites to exclusive events at MWC.

**Accelerate Innovation**

Shape the next generation of mobile through initiatives such as GSMA Foundry, an initiative to help the ecosystem accelerate the delivery of new connected devices and services – or access the latest industry data through GSMA Intelligence.
WELCOME TO GSMA MEMBERSHIP

**Operator Members**
Open to licensed mobile network operators using a GSM family technology (GSM, 3G (UMTS/WCDMA), HSPA, LTE, LTE-Advanced).
- MNOs using a GSM family technology
- Satellite Operator
- Aircraft Operator
- Maritime Operator
- Telecommunications Administrative/Regulatory bodies...

**Industry Members**
Open to companies in the broader mobile ecosystem, including equipment vendors, device manufacturers and software companies (as well as organisations using mobile connectivity to create better services).
- Handset and device makers
- Software companies
- Equipment providers
- Internet companies...

**Rapporteur Members**
Open to non-GSM licensed operators moving to LTE/HSPA, or those planning to roam on GSM networks – plus Mobile Virtual Network Operators.
- Non-GSM Licensed Operators
- Fixed Wireless/Wireless Local Loop (FW/WLL) Operators
- M2M Operators
- Virtual Mobile Network Operators (MVNO)
- Wholesale Network Operators...

**Sector Members**
Sector specific industry engagement bridging the gap between the mobile and key adjacent ecosystems in areas such as Financial Services, Manufacturing, Aviation, Gaming, Automotive and Tower & Fibre Infrastructure.
- Financial Services
- Automotive
- Aviation
- Manufacturing
- VoIP
- Tower & Fibre
- Gaming...
GSMA - WORKING GROUPS AND SECURITY

8 PERMANENT WORKING GROUPS

INTERNET IPR
INTEROPERABILITY DATA SPECIFICATIONS & SETTLEMENT
NET WORKS SIM/eSIM
WHOLESALE AGREEMENTS & SOLUTIONS
TERMINAL STEERING FRAUD SECURITY

CONNECTING OVER 15,500 EXPERTS

5,758 ACTIVE WORKING GROUP PARTICIPANTS
105 TASKFORCES & SUBGROUPS
105 SINCE LAST BOARD MEETING

SUPPORTING OVER 750 OPERATORS

500+ ESSENTIAL SPECIFICATIONS
INTEROPERABILITY ROAMING INTERCONNECT
IMPACTING OVER 10% REVENUE

320 MEETINGS T-ISAC MEMBERS
BENEFITTING EVERY SUBSCRIBER GLOBALLY

5,758 PERMANENT WORKING GROUP PARTICIPANTS
8 TASKFORCES & T-ISAC SINCE LAST BOARD MEETING

SUPPORTING OVER 750 OPERATORS

500+ ESSENTIAL SPECIFICATIONS
INTEROPERABILITY ROAMING INTERCONNECT
IMPACTING OVER 10% REVENUE

320 MEETINGS T-ISAC MEMBERS
BENEFITTING EVERY SUBSCRIBER GLOBALLY
Fraud & security
We push the security agenda in the industry to stay ahead of fraud and security threats, define preventative measures and provide support tools and processes.

Intellectual property rights
We work to protect IP and play a part in defining effective regulations.

Internet
We identify changes in internet technologies and their application to Communications networks.

Interoperability data specifications & settlement
We design flexible data exchange processes to support clearing, billing and settlement.

Networks
We create specifications, guidelines frameworks and systems to support operation of networks for interconnection and roaming.

SIM
We define eSIM specifications for the whole industry and general consensus on SIM technology and services.

Terminal steering
We avoid fragmentation and enhance devices, usability, security and consistency.

Wholesale agreements & solutions
We develop charging models and agreement templates to ease the introduction of new services.

Working towards common goals, the GSMA Working Groups engineer the future of technology.
Manufacturing, Aviation, Financial Services, Automotive

These vertical focused groups bridge the gap between mobile and key vertical sectors, for example, the 5G IoT for Manufacturing Forum has grown to 29 organisations and delivered 5 reports including 5G IoT Private & Dedicated Networks and Operational Networks for Comparison of 5G and Wi-Fi.

Open Networks

Taskforce of all members was set up to investigate the impact of open interfaces and standards on Mobile Infrastructure supply chain.

IoT

GSMA Internet of Things is an initiative to help operators add value and accelerate the delivery of new connected devices and services in the IoT.

Identity & Data

Sharing knowledge and best practices on Identity and Data services, with a focus on commercial solutions from the mobile industry for third parties. Strengthening collaboration across the ecosystem, from MNOs through technology vendors to identity resellers and CPaaS players.

Telco Edge Cloud

Operator Platform and Telco Edge Cloud, Multi-Operator MEC initiative and 5G Cloud Mobile Edge Computing (MEC)
Manages the delivery and approval of all GSMA eSIM specifications including Consumer, IoT and M2M variants.

**KEY INDUSTRY BENEFIT**
Through seven sub-groups, the GSMA eSIM Group covers the full eSIM lifecycle from initial specification through testing and compliance to operational services.

**LATEST FOCUS | NEW**
- Consumer eSIM version 3
- eSIM for constrained IoT devices
- eUICC Security Assurance
- End-to-end lifecycle for all eSIM products and services

**eSIM SERVICES**
eSIM Discovery Server | eUICC Identifier (EID) Issuance | eUICC Security Assurance | eUICC / Operator Profile Interoperability Events

**NOTES**
eSIM work split across 7 subgroups covering Requirements, Technical Solution, Testing, Compliance, Security Assurance, Interop Tests and IoT.
Group members 1400+
Plenary attendance 150+

Push the security agenda in the industry to stay ahead of fraud and security threats, define preventative measures and provide support tools and processes.

**KEY INDUSTRY BENEFIT**

Build and maintain trust in mobile networks and technologies. Information sharing on latest fraud & security risks and mitigation to reduce compromises, losses and protects brands.

**LATEST FOCUS | NEW**

- Fraud - intelligence sharing, roaming fraud management
- Network Interconnect Security (2G-5G) - SS7, Diameter, SIP, Signaling, Key Management, PKI
- Device Security - Theft, Hardening, Malware, Certification
- Security Architecture - Threats and Controls, Threat Intelligence

**FASG SERVICES**

Intelligence Sharing (T-ISAC) | Coordinated Vulnerability Disclosure | IMEI Security testing | Stolen handset data sharing

**NOTES**

FASG sub-groups address operational and standardisation activities in Fraud and Security.

**LEADERSHIP**

Chair
David Rogers
*Copper Horse Limited*

Deputy Chair
Andy Mayo
*Vodafone*

Director
David Maxwell
*GSMA*

Coordinator
Karola Rajoo
*GSMA*

GSMA Head Of Security
James Moran
*GSMA*
Provide standards for electronic roaming information exchange to support wholesale billing, fraud prevention, invoicing & settlement, network configuration and commercial agreement.

**KEY INDUSTRY BENEFIT**
IDS standards maximise cash flows for roaming so the operators can pay each other timely.

**LATEST FOCUS | NEW**
- Billing and Charging Evolution launch
- Billing and Charging Evolution Test Toolkit
- Electronic Invoicing Data Implementation for BCE and TAP
- Alias TADIG Code and MCC/MNC mapping in TS.25 Database

**IDS SERVICES**
TADIG Code Allocation | GSMA Standardised
Exchange Rate Tool | BID / Escalation Lists

**NOTES**
Work within IDS is split between two major sub-groups: Billing and Charging Evolution (BCE) and Maintenance Charging and Settlement (MCS).

**LEADERSHIP**

**Chair**
Pascal Dejardin
*Orange*

**Deputy Chair**
Elira Klosi
*Vodafone*

**Director**
Carmen Kwok
*GSMA*

**Coordinator**
Karola Rajoo
*GSMA*
Identify threats and opportunities for mobile operators by analysing and assessing new technologies in the internet and web space.

KEY INDUSTRY BENEFIT
Coordinate industry wide action for pushing forward common telco agenda in the Internet world, unlock new tech opportunities and mitigate common threats.

LATEST FOCUS
- Study of Quantum Computing Networks and Technologies
- Blockchain Co-ordinated Effort
- DNS Encryption guidelines for MNOs
- Engagement with IETF and W3C on QUIC MASQUE, DNS Encryption, WebRTC and DLT

NOTES
Internet Group publishes whitepapers and assessments of internet technology. Through subgroups, it is also responsible for GSMA’s activities in Identity Federation and Blockchain fabrics.

Each activity within Internet Group is led by appropriate volunteers from members of the group.
Promote IP regulations that assist in growing the mobile industry and discourage abusive IP practices.

**KEY INDUSTRY BENEFIT**
Deal with any Intellectual Property challenges threatening the use of mobile technology and compromise the provision of mobile operator services.

**LATEST FOCUS | NEW**
- Intellectual Property Rights Regulations AA.32
- Joint GSMA IPR Strategy
- New publication “A History of Mobile Network Operators and Essential Telecommunication Technology”

**IPR SERVICES**
- Patent Search Service  
- Proposed one-stop arbitration  
- New public facing IPR website

**NOTES**
Currently (2021) all activity on IPR is being undertaken in the Open Networking IPR project.

**LEADERSHIP**

**Chair**
Heinz Polsterer  
T-Mobile Austria

**Director**
Michael Loch  
GSMA
NG | NETWORKS GROUP

Group members 700+
Plenary attendance 120+

Provide technical support for operators addressing, testing and performance aspects of interconnection and roaming between operators.

KEY INDUSTRY BENEFIT
Ensuring Inter-Operability between the various industry participants to the benefit of End Users

LATEST FOCUS | NEW
- 5G Task Force for all 5G related specifications - 5G Roaming Guidelines, UNI on 5G, VoWiFi over a 5G Network and Network Slicing, 5G interoperator signalling
- Emergency Calling
- RCS
- Open Infrastructure

NG SERVICES
RAEX IR.21/IR.85 | ASN Allocation | Root DNS for GRX/IPX

NOTES
Network Groups works through subgroups focussing on Roaming, RCS, 5G, Open Infrastructure.

LEADERSHIP

Chair
Sandra Ondrusova
Hutchison 3G UK Limited

Deputy Chair
Walter Zielinski
Huawei

Director
Javier Sendin
GSMA

Coordinator
Karola Rajoo
GSMA
TSG | TERMINAL STEERING GROUP

Group members 300+
Plenary attendance 30+

Manage terminal activities within GSMA and beyond to avoid fragmentation and enhance services, usability, security and consistency.

KEY INDUSTRY BENEFIT
Align terminal capability related recommendations, testing and information to ensure consistent functionality across all devices.

LATEST FOCUS | NEW
- TS.48 Generic eUICC Test Profile for Device Testing
- TS.37 Requirements for Devices with Multiple SIM
- TS.43 VoWiFi and VoLTE Entitlement Configuration.
- TS.47 AI Mobile Device Requirements Specification

TSG SERVICES
HD Voice Logo | TS.25 Database | TAC Allocation Process

NOTES
TSG has 21 subgroups covering a wide range of terminal topics including RCS client specifications, field trial testing, antenna performance, artificial intelligence, eco ratings and more.

LEADERSHIP

Chair
Kay Fritz
Vodafone

Deputy Chair
Jian Jun Wu
Samsung Electronics Co Ltd

Director
Paul Gosden
GSMA
To develop Agreement Templates, Charging Models & Principles that support the commercial aspects of Inter-operability.

**KEY INDUSTRY BENEFIT**
Ensuring Inter-Operability between the various industry participants to the benefit of End Users

**LATEST FOCUS | NEW**
- VoLTE Roaming promotion
- M2M implementations
- Support of 5G Stand Alone & Network Slicing
- Support for future Billing and Charging Processes

**WAS SERVICES**
RAEX IOT/Op Data Tool | Bi-annual WAS Networking & Information Sharing Events

**NOTES**
Work within WAS is split between the Agreements (WAGREE) and Solutions (WSOLU) sub-groups.

**LEADERSHIP**
- **Chair**
  - Kathleen Leach
  - T-Mobile

- **Deputy Chairs**
  - Stephen Breen
  - Verizon
  - Luc Lamoureux
  - Reliance Jio

- **WAGREE Chair**
  - Anthony Pizzuto
  - Vodafone Ltd

- **WSOLU Chair**
  - Marjolein Medendorp
  - Telefónica

- **Director**
  - Julia Gullstrand
  - GSMA

- **Coordinator**
  - Emma Wood
  - GSMA
Other Groups

As the work in GSMA expands across more of the Telecoms ecosystem, impacting more and varied types of companies, the number and scope of our working groups is increasing.

The following are more recent additions to GSMA’s Working Groups. These are a mixture of long-term permanent groups and also transient groups focussed on delivering single products and technologies.

### Industry Specification Approving Group (ISAG)
- Oversees all GSMA’s activities in establishment of industry standards. Comprises a balanced mixture of Operator and Non-operator industry representatives managing process and work of GSMA’s standard developing groups.

### Automotive Identity
- Manages the issues of using cellular subscriptions in cars, thus enabling users to make and receive calls within the car using existing subscriptions and obtain data connectivity using their existing data bundle.

### IoT SAFE
- IoT SAFE – Leveraging a hardware secure element, or ‘Root of Trust’, to establish end-to-end, chip-to-cloud security for IoT products and services.

### Operator Platform
- Creates the architecture and technical requirements to guide other Standard Developing Organizations (SDOs) to develop specifications for a federated Mobile Edge for the whole industry.

### Secure Applications for Mobile
- Defining the capability to permit third-party download and execution of applications on the eUICCs and UICCs independently of operator telecom profiles.

### Security Assurance
- Supplier security assurance schemes - e.g. eSA (eUICCs), SAS (SIM provisioning and management sites), NESAS (Network Equipment products and manufacturer processes).
Networks
Shaping the next generation of mobile networks. Enabled by open networking, and supporting flexible, accessible operator edge services.

Internet of Things
Scaling mobile technologies and processes for the whole cellular IoT market and increasing adoption in key customer markets.

Fraud & Security
Analysing threats to all stakeholders in the mobile ecosystem and empowering them to protect it.

Identity & Data
Bringing operators and partners together to enhance data services and protect against fraud.

Energy Efficiency
Powering networks of the future whilst minimising energy use, maximising efficiency and promoting the use of renewable energy.

Internet
Realising the opportunity and impact of new web technologies for the mobile industry.

Roaming & Interconnect
Ensuring best practice operator roaming, billing and settlement for both legacy & future services.

Artificial Intelligence
Maximise responsible use of AI & machine learning across all aspects of the mobile ecosystem & society.

PRIORITY TECHNOLOGIES FOR THE 5G ERA
WE CREATE END-TO-END VALUE IN VERTICAL INDUSTRIES

We collaborate with experts from the most innovative companies in the ecosystem, creating opportunities for brands in Automotive, Finance, Manufacturing, Aviation and more.

VoIP
The GSMA and VoIP organisations are building strength as a community, understanding first hand the emerging trends, opportunities and challenges across the mobile landscape and helping to drive the future of voice communications.

Financial Services
Together with the Financial Services community, the GSMA is addressing key strategic issues, unlocking value, improving security and delivering in areas such as security, eSIM, network slicing, car payments, blockchain...

Manufacturing
GSMA’s 5G IoT for Manufacturing Forum brings together mobile operators, ecosystem partners, as well as manufacturing & production companies to accelerate the adoption of fit-for-purpose connectivity for Industry 4.0

• GAMING • AUTOMOTIVE • HEALTHCARE • FINANCIAL SERVICES • ENERGY & UTILITIES • EDUCATION • AGRICULTURE • TRANSPORT & LOGISTICS •
The GSMA Foundry is the go-to place for cross-industry collaboration and business development, where GSMA members and industry players come together to rapidly develop real-world solutions to industry challenges, nurture new ideas through initial commercial trials and scale proven solutions at a regional and global level to forge our digital future.

The Foundry utilises the global power and reach of the GSMA to convene, engage and unify the end-to-end connectivity ecosystem.

Focus on fixed term tangible projects with resource commitments from partners.
MWC21 SERIES
SHANGHAI, LA, BARCELONA IN NUMBERS

1,123,000 impressions
MWL TV, LINKEDIN AND ONLINE PLATFORMS
53,145,000 social impressions

435 hours of content
58% Director level and above
1,420 exhibitors
1,321 speakers
49,690 in person event attendees
DATA, RESOURCES AND TOOLS TO HELP YOUR BUSINESS THRIVE

Device Information Services

Unique TAC* datasets that help optimise networks and service delivery.

GSMA Device Database
Original source for device identification and validation.

GSMA Device Map
Vital device intelligence for network and marketing planning.

GSMA TAC Allocation
We allocate the TAC that is used to identify all connected device models.

eSIM Services

Advancing the growth of eSIMs, with services that facilitate global adoption.

GSMA eSIM Discovery
A seamless method of activating new eSIMs on the right network.

GSMA eUICC Identity Scheme
Allocation of eUICC identification numbers for manufacturers.

GSMA eUICC Security Assurance
Instilling confidence that eUICC chipsets have reached rigorous industry security standards.

Fraud and Security Services

Essential tools to help reduce costly traffic fraud and mobile device crime.

GSMA Fraud Intelligence Service
Enables smart analysis and fast sharing of roaming and interconnect fraud.

GSMA Device Check™
Instantly look up whether a device has been reported lost, stolen or fraudulently obtained.

GSMA Device Registry
Flag a device’s status to protect business and people against mobile device crime.

Network and Interconnect Services

Helping devices, the internet and networks interconnect optimally in the 4G and 5G era.

GSMA Interoperability Testing
Tests to demonstrate a network, roaming networks or devices are VoLTE capable.

GSMA Network Settings Exchange
Making sure your device network services are reliable.

GSMA PathFinder™
Route important messages from businesses to their customers

GSMA Root DNS
Ensures network services work seamlessly when roaming.

GSMA Roaming Services

Next generation wholesale roaming, with blockchain technology. Processes are now faster, transparent, and 5G-ready.

GSMA eBusiness Network
A multi-party blockchain telco network, enabling more efficient and cost-effective inter-operator business.

GSMA Node
A managed all-in-one toolkit for the GSMA eBusiness Network. Includes API access and hosting.

GSMA Settlement
Streamlined clearing and settlement process, for reduced disputes and speedier wholesale roaming billing.

* Type Allocation Code

https://www.gsma.com/services/
OUR ADVOCACY WORK IS CENTERED AROUND

**External Affairs & Industry Purpose**
Intelligently connecting everyone and everything to a #BetterFuture

**Climate Action**
Climate change is one of the greatest threats humanity has ever faced and the mobile industry has a big part to play in fighting this global crisis.

**Regulatory Modernisation**
Setting the right rules to advance the digital economy

**Spectrum**
Securing the foundation for the future of mobile

**Mobile for Development**
Transforming lives through mobile innovation
CLIMATE ACTION PROGRAMME

ACTION AREAS

- ENERGY EFFICIENCY
- RENEWABLE ELECTRICITY
- SUPPLY CHAIN & CUSTOMERS
- ENABLING TECHNOLOGIES

STAKEHOLDER ENGAGEMENT

- Target setting and maintaining leadership
- Policy & advocacy - updated Climate policy, Green New Deal response
- Convening the industry - Climate Taskforce, September Seminars, MWC

- Climate Action Taskforce – more than 40 operator members globally
- Collaborate to move the mobile industry to Net Zero carbon emissions by 2050
- More than half the industry has climate targets aligned to the Paris Agreement
REGULATORY MODERNISATION

Monitor Developments
In the law and in policy discourse

Promote & Partner
Through events and engagements

Look to the Future
By considering the implications of emerging technologies for consumers and society

Educate & Influence
By spreading understanding and insights
SPECTRUM

Ensure mobile operators have timely and affordable access to appropriate spectrum. Building the foundation for the future of mobile and working towards:

- Identify mobile spectrum for future data demand
- Assign identified spectrum through fairness and transparency
- Maximise the 5G opportunity to unleash the next wave of innovation
CASE STUDIES
The GSMA is actively working with the telecoms and aviation industries to maximise the use and capabilities of UAS (drones), develop new use cases and help create an open and trusted regulatory environment. One example of this is our work with search and rescue.

Drones are in a unique position. With an airborne, compact, and nimble nature, they can access many locations, which would otherwise be difficult and costly to reach. As a result, they are ideally suited to perform object recognition tasks which can be connected to search, rescue and recovery missions.

LMT (Latvian Mobile Telephone) is working in collaboration with Riga Technical University to develop AI solutions that provide fast and reliable information from the site to the search, rescue and recovery teams.

With the help of several sensors, drones are able to efficiently collect a large amount of data, process it quickly with the help of edge computing on the mobile network and deliver the information to the rescue service.
More than 500 million connected cars will be on the road by 2025 (Ericsson, 2019), making the connected vehicle market one of the highest growth areas in the IoT.

More importantly, the connected vehicle market will have the biggest impact on the safety and wellbeing of citizens. By 2025, connected cars could save 11,000 lives and lead to 260,000 fewer accidents every year, while avoiding 400,000 tonnes of CO2 emissions and saving 280 million hours of driving.

The GSMA is working with mobile operators, automotive OEMs and suppliers, industry associations and regulatory bodies to accelerate the growth of the connected vehicle market by agreeing a common approach to security, regulatory and infrastructure solutions. Only a standardised and collaborative approach of the industry can unlock the full potential of this market.
As the threats targeting the mobile ecosystem increase, the GSMA continues to enhance the security support offered to its membership. That’s why we analyse the industry’s threat landscape and provide information that enables our member’s ability to protect the mobile ecosystem.

The GSMA Security Team supports the Fraud and Security Group (FASG). We work collaboratively with this group of experts on Fraud and Security topics.

Further to our work with the FASG, we have broadened our presence within industry through best practice publications, as well as providing security operations services for our membership. We work with a wide variety of stakeholders to deliver our services, these include:

- Academia
- Industry bodies
- Standards Development Organisations (SDO)
- Security practitioners
- Security researchers
- Senior security representatives
Mobile operators are re-evaluating the way that their networks are deployed. New virtualised architectures with open interfaces can drive cost efficiencies and allow operators to accelerate the deployment of 5G networks. Also, open interfaces can help diversify and reinvigorate the supply chain promoting competition and innovation – for example, by building and operating a RAN based on mix-and-match components from different vendors.

The GSMA and the O-RAN ALLIANCE have joined forces to accelerate the adoption of Open Radio Access Network products and solutions that take advantage of new open virtualised architectures, software and hardware. The organisations will work together to harmonise the open networking ecosystem and agree on an industry roadmap for network solutions, thereby making access networks as open and flexible as possible for new market entrants.
With the support of the GSMA, leading operators: China Unicom, Deutsche Telekom, EE, KDDI, Orange, Singtel, SK Telecom, Telefonica and TIM, have joined forces to develop an interoperable platform to make edge compute capabilities widely and easily available. The platform will make local operator assets and capabilities, such as latency, compute and storage, available to application developers and software vendors – enabling them to fulfil the needs of enterprise clients.

Operators have agreed to work together to develop an Edge Compute architectural framework and reference platform. And the GSMA has launched an Operator Platform Project to support this exciting operator initiative. Initially, the platform will be deployed across multiple markets in Europe and progressively extended to other operators and geographies to achieve global reach.

WE BRING CLOUDS CLOSER

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Finance and ICT ministers, ICT regulators and telecom and technology CEOs discussed an accelerated action plan to better leverage digital technologies and infrastructure during the COVID-19 pandemic.

World Bank, WEF, GSMA and ITU all mobilised in the fight against COVID-19.
GSMA MEMBERSHIP BENEFITS

**Industry action & influencing**
- Only as a GSMA member can you access and partake in the GSMA working groups - the cornerstone of mobile technology evolution
- Collaboration and harmonisation to influence mobile industry standardisation and solution development

**Knowledge share & documentation**
- Access to GSMA’s secure extranet & 15,500 contact database
- Opportunity to publish relevant documentation on GSMA website and through GSMA channels

**Networking & community**
- Virtual and in-person forums, meetings and dedicated networking at GSMA events
- Discounts on MWC event space & passes

**Marketing & promotion**
- White papers, case studies, success stories & press releases published on the GSMA website, alongside member listing
- Promotion on social media and use of GSMA membership logos
- Webinars & virtual showcases

**GSMA services**
- Access to and preferential rates across many of GSMA’s services, including GSMAi, RAEX and Telecommunication Information Sharing and Analysis Center (T-ISAC)
# GSMA Membership Benefits

<table>
<thead>
<tr>
<th>GSMA Services</th>
<th>Operator Member</th>
<th>Industry Member</th>
<th>Rapporteur Member (MVNOs)</th>
<th>Sector Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSMA Device Registry</td>
<td>✓</td>
<td></td>
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</tr>
<tr>
<td>GSMA Device Database</td>
<td></td>
<td>30% Discount</td>
<td></td>
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<tr>
<td>GSMA Device Map</td>
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<td>10% Discount</td>
<td>10% Discount</td>
<td></td>
</tr>
<tr>
<td>GSMA Network Settings Exchange</td>
<td></td>
<td></td>
<td>✓</td>
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<tr>
<td>TAC allocation</td>
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<td></td>
<td>10% Discount</td>
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</tr>
<tr>
<td>Roaming Agreement EXchange (RAEX)</td>
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<td></td>
<td>✓</td>
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<tr>
<td>Standard global roaming agreements</td>
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<tr>
<td>TAP Testing Toolkit software licence</td>
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<td>50% Discount</td>
<td>50% Discount</td>
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<tr>
<td>Telecommunication Information Sharing and Analysis Center (T-ISAC)</td>
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<tr>
<td>GSMA Intelligence</td>
<td>Discount</td>
<td>Discount</td>
<td>Discount</td>
<td></td>
</tr>
<tr>
<td>GSER - GSMA Standardised Exchange Rate Tool</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>GSMA Advance Training</td>
<td>20% Discount</td>
<td>20% Discount</td>
<td>20% Discount</td>
<td></td>
</tr>
<tr>
<td>Security Accreditation Scheme</td>
<td>Discount</td>
<td>Discount</td>
<td>Discount</td>
<td></td>
</tr>
<tr>
<td>High Risk Numbers</td>
<td>✓</td>
<td></td>
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</tr>
</tbody>
</table>

### Participation & Networking

GSMA facilitated projects and working groups enable Members to work together in a structured and efficient manner and to promote a common goal. GSMA Members are encouraged to participate in a range of forums.

<table>
<thead>
<tr>
<th>Operator Member</th>
<th>Industry Member</th>
<th>Rapporteur Member (MVNOs)</th>
<th>Sector Member</th>
</tr>
</thead>
<tbody>
<tr>
<td>Working Groups</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Regional Groups</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Industry Focused Projects</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Seminars &amp; Training</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Use of GSMA Member Suites</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>GSMA Foundry</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Marketing Opportunities</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GSMA Membership gives you the platform to enhance the profile of your business and promote your brand on the world stage.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Company listing on the GSMA web-based directory</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Discounted rates for advertising in selected GSMA publications</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Profiles of success stories</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Publication of your press releases, white papers and case studies</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Use of the GSMA Member logo</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Discounts at MWC events; 30% discount on delegate passes</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>3% discount on MWC Barcelona exhibition space and standard meeting rooms</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

*Where relevant and at the discretion of Working Group Directors*
### GSMA MEMBERSHIP BENEFITS SUMMARY

#### Working Groups
- Work towards common goals
- Collaborate with members
- Influence mobile industry standards
- Contribution lead
- Forums for discussion and sharing

#### Projects & Advocacy Initiatives
- Participate in Projects
- Spectrum and Public Policy
- Mobile for Development
- External Affairs and Industry Purpose

#### Resources & Training
- Newsletters
- Webinars
- Discounts on GSMA Advanced Training

#### Discounts on Services
- GSMA Device Database
- GSMA Intelligence
- TAC allocation fees
- Security Accreditation Scheme

#### Events & Networking
- 30% discount on delegate passes
- 3% discount on MWC Barcelona exhibition space and standard meeting rooms
- Invitation to exclusive Membership Events and Industry events

#### InfoCentre²
- Members-only portal
- Join and participate in groups
- Access to resources and PRDs
- RAEX and key tools

#### Regional Support
- Our Regional Teams support with key topics and regional industry objectives
- Members can participate in regional initiatives and groups

#### Marketing Opportunities
- Case Studies and press releases published on the GSMA website
- Company listing on the GSMA website
- Testimonials / Success Stories
- Bespoke Social Media
MEET YOUR **MEMBERSHIP MANAGER**

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