GSMA
MEMBERSHIP

GSMA™

CONTENTS

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.

GSMA

OUR **VISION**

To unlock the full power
of connectivity so that people,
industry and society thrive.

_____

WE'RE THE

GSMA

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.

GSMA™

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.

GSMA

THE GSMA IN NUMBERS

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

30m data points included in GSMA Intelligence's database

1987
The GSMA was founded

10.1bn+
cellular connections worldwide (including IoT)

100m+
lives impacted through Mobile for Development

5.2bn+
unique mobile subscribers

Connecting **23,000** experts through InfoCentre2 – our online community for members

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

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

1.2bn
mobile money accounts

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

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

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

2.7m
visitors to MobileWorldLive.com

GSMA

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 Los Angeles 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

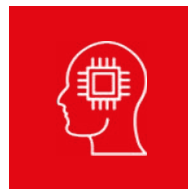We turn ideas into solutions, with frameworks and standards in commercial, operational and technical matters

GSMA

WE FOCUS ON PLATFORMS AND PROJECTS
THAT ARE ESSENTIAL TO ACCELERATE
TECHNOLOGY AND A BETTER WORLD

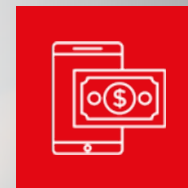|					
5G	External Affairs	Artificial Intelligence	Live Media & TV Online	Ministerial Programme	Strategy
Roaming	Policy & Regulatory	Mobile for Development	Networks	Mobile Money	Live & Virtual Events
IoT	SIM Technology	RCS	Data Intelligence	Security	Identity

GSMA

THE GSMA BOARD HAS 26 MEMBERS,
REPRESENTING THE LARGEST OPERATOR GROUPS AND INDEPENDENTS WITH GLOBAL REACH

José María Álvarez-Pallete,
Chairman & CEO, Telefónica.
GSMA Board Chair

Rima Qureshi,
Executive Vice President
& Chief Strategy Officer
GSMA Board Deputy Chair

Susan Johnson,
Executive Vice President,
Global Connections & Supply Chain

Izzaddin Idris,
Group CEO

Gopal Vittal,
CEO

Gao Tongqing,
Executive Vice President,

Liu Guiqing,
Executive Vice President

Mai Yanzhou,
Senior Vice President

Dominique Leroy,
Board Member for Europe

Christian Salbaing,
Deputy Chairman, Europe

Mats Granryd,
Director General

Mathew Oommen,
President & Member
of the Board of Directors

Ahmed Essam,
Chief Commercial Operations
& Strategy Officer

Hyeonmo Ku,
President & CEO

Jens Schulte-Bockum,
Group Chief Operating Officer

Vyacheslav Nikolaev,
President & CEO

Motoyuki Ii,
President & CEO

Yuen Kuan Moon,
Group CEO

Olayan Alwetaid,
Group CEO

Sigve Brekke,
President & CEO

Andrew Penn,
Group CEO

Pietro Labriola,
CEO & General Manager

Michaël Trabbia,
Chief Technology and
Innovation Officer

Kaan Terzioğlu,
Group Co-CEO

Varlos M. Jarque,
Executive Director America
Movil; International Relations
and Government and
Corporate Affairs

Makoto Takahashi,
CEO

GSMA

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

Connect with over 15,000 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.

GSMA

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

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
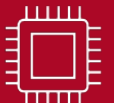
CONNECTING MORE THAN 15,000 EXPERTS

5,758 ACTIVE WORKING GROUP PARTICIPANTS

105 TASKFORCES & SUBGROUPS

SINCE LAST BOARD MEETING

320 MEETINGS

T-ISAC MEMBERS

SUPPORTING OVER 750 OPERATORS

500+ ESSENTIAL SPECIFICATIONS

- INTEROPERABILITY
- ROAMING
- INTERCONNECT

IMPACTING OVER 10% REVENUE

BENEFITTING EVERY SUBSCRIBER GLOBALLY

GSMA

Fraud & security
We stay ahead of potential fraud and security threats by implementing preventative measures

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

Internet
We identify threats and opportunities in new internet technologies

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

Networks
We create frameworks to support dependable performance of networks for interconnection and roaming

SIM
We build 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 introduction of new services

GSMA
Working Groups

Working towards common goals, the GSMA Working Groups engineer the future of technology

GSMA

Other Groups & GSMA Communities

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

Secure Applications for Mobile

Providing an open and interoperable SIM/eSIM based solution for third parties wishing to host secure applications on devices, key uses would include ticketing, banking and secure identity (eIDAS compliant)

IP Communications

Defining a cross-industry road map for operator deployed personal communication services (voice and messaging) across 4G, 5G and other IP based networks.

IoT Safe

Enabling SIM and eSIM based security methods to be used to secure communications for IoT services

Operator Platform Group

Creating the specifications for interoperable operator hosted 'Edge Cloud' services

Telco Edge Cloud

Operator Platform and Telco Edge Cloud, Multi-Operator MEC initiative and 5G Cloud Mobile Edge Computing (MEC)

Identity & Data

Understanding the role of identity & data as an enabler for such as decentralised identity, IoT, fraud detection and risk scoring; the commercial opportunities that identity presents to the operators and the broader ecosystem

WAS | WHOLESALE AGREEMENTS AND SOLUTIONS

Group members 2500+
Plenary attendance 1000+

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 | N E W

- VoLTE Roaming Promotion
- MIoT implementations
- 5G & Network Slicing
- Support for future Billing and Charging Processes

WAS SERVICES

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

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

Roger Brown
GSMA

NOTES

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

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 | N E W

- 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

FASG | FRAUD AND SECURITY GROUP

Group members 1400+
Plenary attendance 150+

Drive the industry's management of fraud and security matters related to GSM technology, networks and services.

KEY INDUSTRY BENEFIT

Build and maintain trust in mobile networks and technologies. Information sharing on latest fraud & security risks and mitigation reduces operator losses and protects brands.

LATEST FOCUS | N E W

- Security assurance scheme for network equipment (NESAS)
- 5G & Diameter Interconnect Security & Key Management.

FASG SERVICES

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

LEADERSHIP

Chair

David Rogers
Copper Horse Limited

Deputy Chair

Andy Mayo
Vodafone

GSMA Head Of Security

James Moran
GSMA

Director

David Maxwell
GSMA

Coordinator

Karola Rajoo
GSMA

NOTES

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

GSMA

IDS | INTEROPERABILITY DATA SPECIFICATIONS AND SETTLEMENT

Group members 1000+
Plenary attendance 50+

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 | N E W

- 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

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 | N E W

- 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

SIM | SIM WORKING GROUP

Group members 240+
Plenary attendance 16+

Provides a forum for consensus building among all membership categories in relation to support and advice on the promotion, implementation and adoption of SIM technology and services.

KEY INDUSTRY BENEFIT

Facilitate the alignment of GSMA Members to drive technical and strategic SIM matters for the benefit of the entire mobile ecosystem

LATEST FOCUS | N E W

- 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

LEADERSHIP

Chair

Sergio Cozzolino
Telecom Italia

Deputy Chair

Daniel Daksiewicz
Giesecke & Devrient

Director
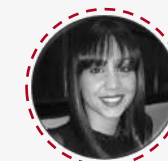
Gloria Trujillo
GSMA

Coordinator

Karola Rajoo
GSMA

NOTES

Currently (2021) only active sub-group in SIM Group is IoT SAFE.

GSMA

IG | INTERNET GROUP

Group members 300+
Plenary attendance 28+

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 | N E W

- 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.

LEADERSHIP

Chair

Chris Seal
CK Hutchison

Director

Yolanda Sanz
GSMA

eSIM | eSIM WORKING GROUP

Group members 500+
Plenary attendance 60+

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 | N E W

- Consumer eSIM version 3
- eSIM for constrained IoT devices
- eUICC Security Assurance
- eUICC Identifiers

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.

LEADERSHIP

Chair

Sergio Cozzolino
Telecom Italia

Deputy Chair

Denis Praca
Thales

Technical Director
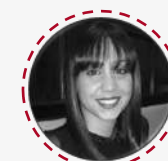
Gloria Trujillo
GSMA

Yolanda Sanz
GSMA

Technical Manager

Carmen Kwok
GSMA

Promote IP regulations that assist in growing the mobile industry and discourage abusive IP practises.

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 | N E W

- 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

LEADERSHIP

Chair

Heinz Polsterer
T-Mobile Austria

Director

Michael Loch
GSMA

NOTES

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

TECHNOLOGY THEMES THAT DEFINE THE 5G ERA

PRIORITY TECHNOLOGIES FOR THE 5G ERA

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.

GSMA

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 •

GSMA

Let's **shape** the **future** *together*

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.

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 threat 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

GSMA

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

GSMA

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

GSMA

CASE
STUDIES

WE ARCHITECT
CONNECTED SKIES

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.

WE'RE DRIVING
CONNECTED VEHICLES

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.

WE SAFEGUARD **SECURITY**

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

WE'RE ACCELERATING
O-RAN WITH 5G ALLIANCE

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.

WE BRING
CLOUDS CLOSER

With the support of the GSMA, leading operators; China Unicom, Deutsche Telekom, EE, KDDI, Orange, Singtel, SKTelecom, 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.

GSMA

WE WORK WITH INSPIRING ORGANISATIONS ON A GLOBAL SCALE

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

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.

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 & 23,000 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

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

Participation & Networking GSMA facilitated projects and working groups enable Members to work together in a structured and efficient way towards a common goal. GSMA Members are encouraged to participate in a range of forums.	Operator Member	Industry Member	Rapporteur Member (MVNOs)	Sector Member
Working Groups	✓	✓	✓	
Regional Groups	✓	✓	✓	
Industry Focused Projects	✓	✓	✓	
Seminars & Training	✓	✓	✓	1 activity
Use of GSMA Member Suites	✓	✓	✓	
GSMA Foundry	✓	✓	✓	
Marketing Opportunities GSMA Membership gives you the platform to enhance the profile of your business and promote your brand on the world stage.				
Company listing on the GSMA web-based directory	✓	✓	✓	✓
Discounted rates for advertising in selected GSMA publications	✓	✓	✓	✓
Profiles of success stories	✓	✓	✓	✓
Publication of your press releases, white papers and case studies	✓	✓	✓	✓
Use of the GSMA Member logo	✓	✓	✓	✓

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

InfoCentre^2

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

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

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

GSMA