GTI

5G-A × AI

GTI SUMMIT SHANGHAI 2024

26th June Shanghai, China

GTI Website

GTI WeChat Official Account

admin@gtigroup.org

GTIgroup2011

GTI Summit

GTI 1.0
2011-2015

Objective

Construct a robust ecosystem of TD-LTE

Speed up the commercialization of TD-LTE

Promote the converged development of LTE TDD and FDD

GTI 2.0
2016-2022

Objective

Further promote 4G evolution and expand global market

Promote 5G development and cross-industry innovation

GTI 3.0
2023-NOW

Objective

Promote intelligent, efficient, and green 5G-A tech and products

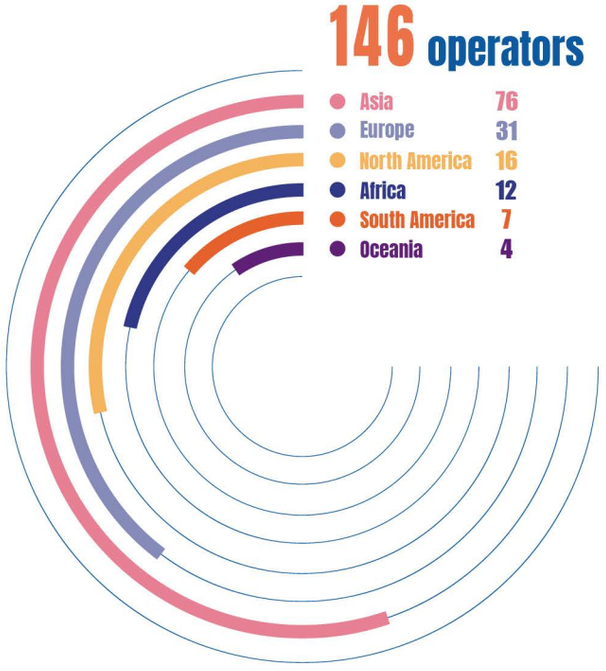
Foster integration of DICT to support next-gen digital infra

Enable 5G monetization and value creation

GTI Members

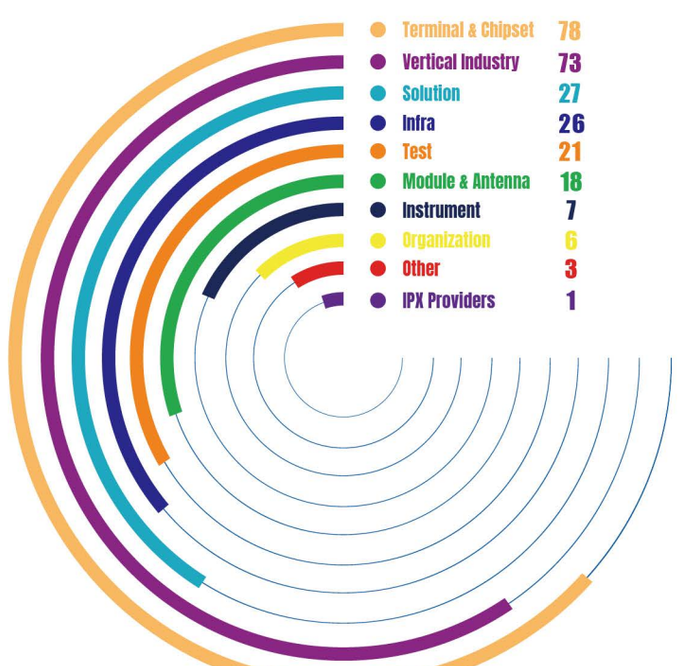
GTI 3.0

GTI Has Become One of The Most Important Platforms for Industrial Collaboration



146 operators

Asia	76
Europe	31
North America	16
Africa	12
South America	7
Oceania	4



260 partners

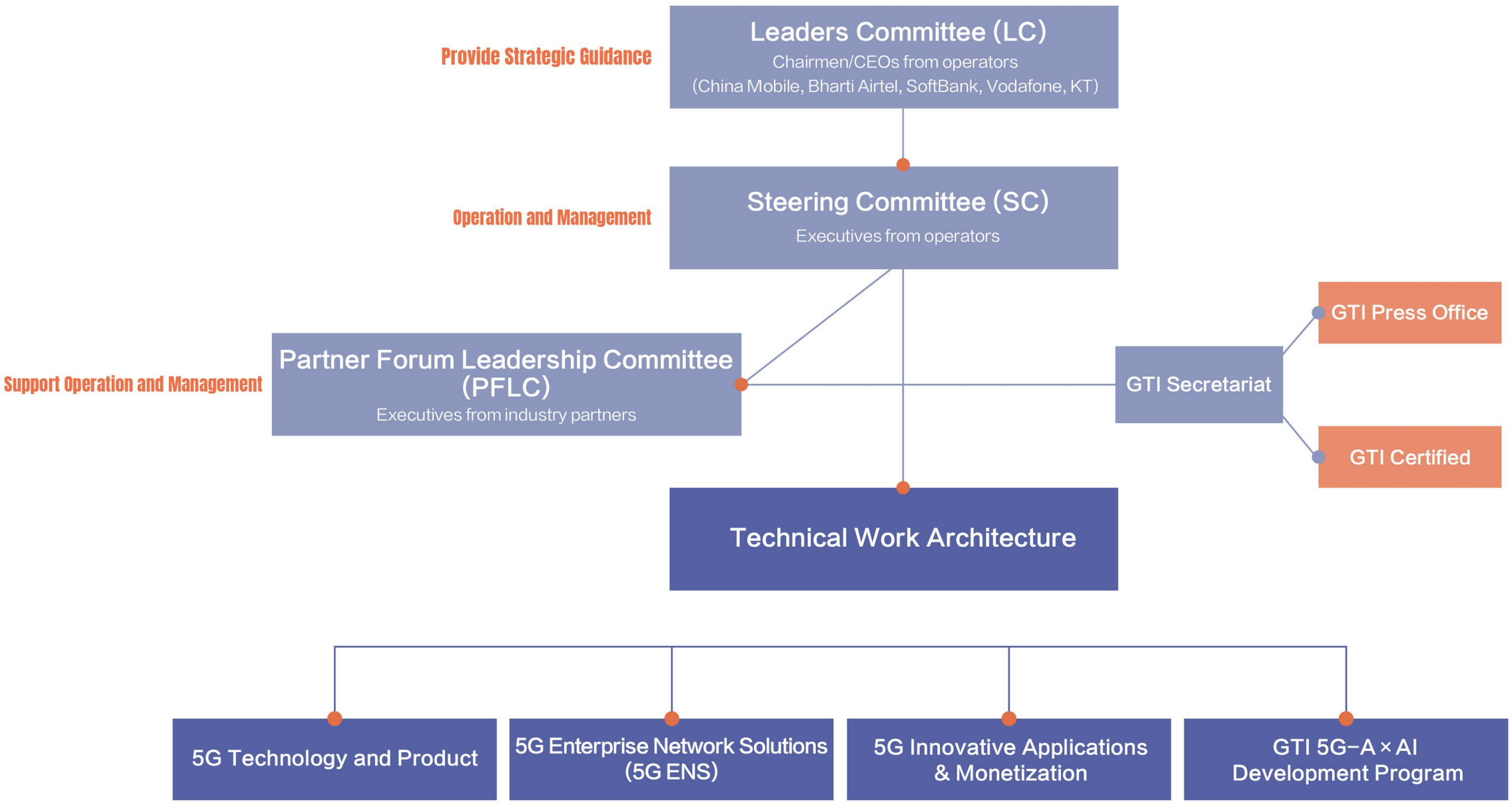
Terminal & Chipset	78
Vertical Industry	73
Solution	27
Infra	26
Test	21
Module & Antenna	18
Instrument	7
Organization	6
Other	3
IPX Providers	1

Global Organizations

GSMA · ITU · 3GPP A GLOBAL INITIATIVE · NGMN · GCF Global Certification Forum · 5GAA Automotive Association · 5G ACIA 5G Alliance for Connected Industries and Automation · TDIA · The true BWA XGP eXtended Global Platform · KHRONOS GROUP · .....

GTI Organization

GTI 3.0



Steering Committee (SC)

Mr. Craig Ehrlich

Co-chairman, GTI

Mr. Gao Tongqing

Co-chairman, GTI
EVP, China Mobile

Dr. PS Tang

Managing Director
Arete M

Mr. Randeep Singh Sekhon

CTO for Airtel India
& South Asia
Bharti Airtel

Mr. Xu Da

5G Chief Strategy Officer
China Broadnet

Mr. Satoshi Konishi

Executive Vice President,
KDDI Research Inc.
Vice President, Technology
Planning, KDDI Corp.
KDDI

Mr. Jongsik Lee

SVP, Head of Infrastructure
DX R&D Center
KT

Dr. Chung Ng

SVP (Technology, Strategy,
and Development)
PCCW-HKT Group

Mr. Mathew Oommen

President
Reliance Jio

Mr. Osamu Kamimura

Vice President and Head
of Spectrum Policy Office
SoftBank

Dr. John Saw

Group CTO
T-Mobile US

Mr. Luke Ibbetson

Director of Strategy
and R&D Organization
Vodafone

Mr. Wing K. Lee

CEO
YTL Communications

(In Alphabetical Order By Company Name)

Partner Forum Leadership Committee (PFLC)

Mr. Eduardo Ramirez

VP of Marketing
Infrastructure Business Unit
Arm

Mr. Ouyang Ye

CTO and SVP
AsiaInfo Technologies

Mr. Sun Lixin

Chairman and CEO
Baicells

Mr. Chen Shanzhi

CTO and EVP R&D
CICT

Mr. Jan Berglund

Senior Director of Product & Solutions
International Business Devel-opment and Marketing
Comba Telecom

Dr. Magnus Ewerbring

CTO, Asia-Pacific
Ericsson

Mr. Shawn Zhu

VP of Global Marketing
Fibocom

Mr. Joseph Teng

Product Development Chief
Green Packet

Mr. Eric Zhao

Vice President & Chief Marketing Officer
Wireless Solution
Huawei

Mr. Sachin Katti

Senior Vice President
General Manager of Network and Edge Group
Intel

Mr. Howard Tsao

CTO, Broadband Networks
ITRI

Mr. Ho-Chi Hwang

General Manager of Wireless Technology Group
MediaTek

(In Alphabetical Order By Company Name)

Partner Forum Leadership Committee (PFLC)

Mr. Aidy Zhang
VP, Head of Mobile Networks China
Nokia

Mr. Tang Hai
Chief 5G Scientist
OPPO

Mr. James Wilson
VP of Strategic Marketing
Qorvo

Mr. Edward George Tiedemann
SVP, Engineering
Qualcomm

Mr. Christoph Pointner
SVP for Mobile Radio Testers within the Test & Measurement Division
Rohde & Schwarz

Mr. Cao Zhenhua
CMO (Chief Market Officer)
Global Carrier BG
Ruijie Networks Corporation

Mr. Ben Lin
President and CTO
Sercomm

Mr. Nelson Wang
VP of Business Development
Supermicro Computer

Mr. Qin Fei
President of Communications Research Institute
vivo

Mrs. Tang Xue
Vice President of ZTE Corporation
Vice General Manager of RAN Product
ZTE

(In Alphabetical Order By Company Name)

Technical Architecture

GTI 3.0

Focus on 4 programs

90+ operators and partners, 370+ technical experts contributing to the technical work

Provide guidance to GTI — **Leaders Committee (LC)**

Decision-making body of GTI — **Steering Committee (SC)**

Partner Forum Leadership Committee (PFLC)

GTI Secretariat

GTI Press Office

Gather partner media resources, and enhance GTI's international influence

GTI Certified — GTI CERTIFIED

Meet the requirements of the industries, and promote the scale development of the industry

Promote the maturity of technologies and products

Technical Work Architecture

5G Technology and Product

No. of Projects: 5

- Spectrum Promotion
- Technology Evolution
- Integration Across Areas
- Products Innovation
- Testing & Evaluation

5G Enterprise Network Solutions (5G ENS)

No. of Projects: 4

- Scenario and Requirement
- Technology and Development
- Product and Solution
- Ecology and Cooperation

5G Innovative Applications & Monetization

No. of Projects: 3

- Additional Success Cases
- White Paper Release
- Active Assistances to GTI Members with Regulators and Monetization Partners

GTI 5G-A × AI Development Program

No. of Projects: 3

- Build Open Labs
- Build an Open Collaborative Innovation Community
- Explore Innovative Use Cases

Key Achievements

Promote TD-LTE as a global mainstream technology, achieve large-scale commercialization

Promote TD-LTE as one of global mainstream 4G technologies for the first time, build TD-LTE end-to-end ecosystem

SPECTRUM

TD-LTE spectrum flexible usage
TDD spectrum efficient allocation
TDD spectrum data base

Spectrum Data Base

GTI LSA White Paper

NETWORK

LTE TDD/FDD convergence
Carrier aggregation VoLTE/RCS

GTI FDD-TDD Convergence White Paper

GTI TD-LTE Carrier Aggregation White Paper

DEVICE

World's first TDD/FDD Multi-mode chips
World's first MMMB smartphone
5-Mode Low Cost Device Solutions

BUSINESS

TD-LTE global roaming
Application innovation
Evolution from WiMAX to TD-LTE

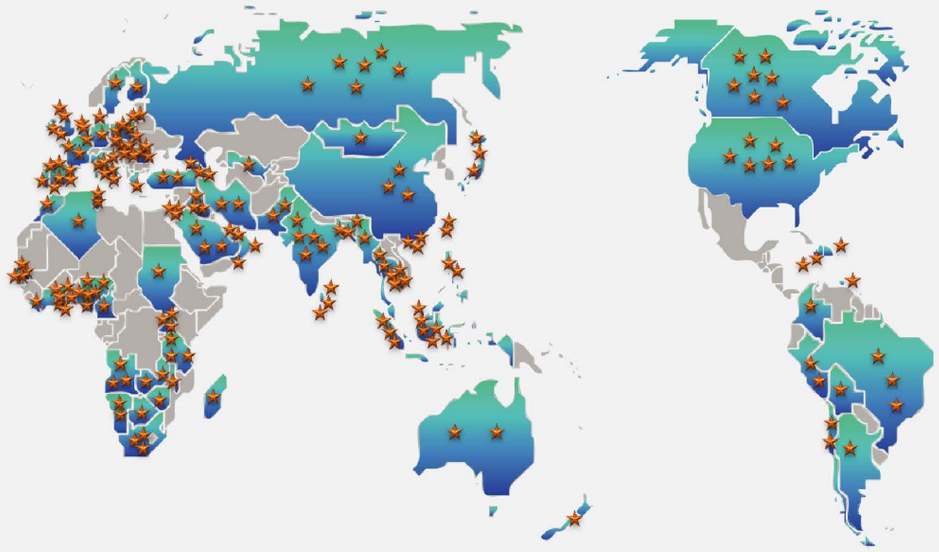
Innovative Application Data Base

Joint Virtual Innovation Labs

Cloud Test Infrastructure

Promote TD-LTE wide application, realize global large-scale commercialization

- **184** TD-LTE commercial networks in **86** countries were deployed, TD-LTE subscribers reached up to **2.77 billion**
- Promote TD-LTE in "Belt and Road Initiative" countries, **130** operators in **61** countries have deployed TD-LTE, among which over **40** operators are GTI members.



Global TD-LTE deployment as of Q1 2024

Key Achievements

Accelerate 5G end-to-end maturity and global large-scale development

Promote 5G mid-band as global prime spectrum

- Build **global mid-band 5G ecosystem**
- Promote **3.5GHz end-to-end maturity**

- Joint release **150+** white papers and research reports
- Joint release **5G in China–the Enterprise Story, Supportive Policies for a Sustainable Mobile Industry in the 5G Era** and **Unleashing New Value with New 5G Technology**

Accelerate global 5G large-scale commercialization

- Promote **debut** of 2.6GHz end-to-end industry to accelerate 2.6G/4.9GHz 5G development
- Promote **5G S-Module** and **5G global device** to accelerate maturity and large-scale development of end-to-end industry
- Build **5G+ cross-industry ecosystem** to promote 5G innovative application

5G smart phone | 5G chipsets | 5G CPE | 5G data device

- Promote **global debut** of 5G mid-band end-to-end prototypes and products
- Joint release **GTI 5G Global Device Initiative** with 27 operators and partners

GTI CERTIFIED

GTI Device Certification

Support sound development of IoT and other industries

- **5** GTI Certified Test Labs
- **5** Test Specifications
- **27** certified chipsets, modules and devices

Key Achievements in 2023–2024

GTI 3.0

5G

GTI XR Network Technology White Paper_v1.0

This white paper aims to explore the key capabilities of 5G networks, devices and services to satisfy the large bandwidth and low latency requirements simultaneously for XR to achieve a new immersive service experience.

GTI Technical Specification of 5G RedCap Lightweight Universal Modules_v1.0

This white paper focuses on the medium speed Internet of Things field, with the R17 stage RedCap technology as the core, defines the technical requirements of 5G lightweight universal module from aspects such as communication capability, hardware packaging, electrical interface, etc.

GTI 5G Femto Technical Requirements White Paper_v1.2

This white paper delves into the development process of Femto cell, provides an overview of the industry's current state, analyzes the demand for key application scenarios, outlines the technical requirements for 5G Femto, and showcases typical demonstration applications.

GTI 5G Metrics and Test Methods Towards XR White Paper_v1.0.0

This white paper aims to promote the formation of service quality evaluation metrics for XR service in the industry, define metrics of 5G performance, form a statistical method for the metrics of 5G performance, and explore requirements of equipment capability and test methods for typical XR service.

GTI 5G Radio Network Intelligence Technical Requirements White Paper_v1.2

The white paper aims to make suggestions, form consensus on the basic capabilities that radio network elements should have, and drive the industry from the aspects of demand scenarios, technical capability requirements, and architecture evolution.

GTI 5G New Calling Open Ecosystem White Paper

This white paper introduces the 5G New Calling open ecosystem from multiple dimensions such as the value chain, technical framework, practice cases, standardization progress, and industrial cooperation, etc. It is hoped that this white paper will help all the industry partners to jointly promote the construction of the 5G New Calling open ecosystem.

GTI White Paper on IMT System Operating in 6GHz Band Coexistence with Incumbents

This white paper will investigate the coexistence of IMT and existing 6GHz band services, such as FSS/FS, by exploring the models, parameters and technologies based on ITU-R agreement, and timely carry out the relevant simulation to verify the theoretical analysis.

5G ENS

GTI Operator Secure Access Service Edge White Paper_v1.0.4

This white paper mainly introduces the background, definitions and requirements of SASE, analyzes the benefits and advantages of establishing a SASE framework for operators, details the key capabilities, functional frameworks, and deployment architectures required by operators and discusses the technical challenges, ecological cooperation and scenario expansion of SASE framework.

GTI Requirements and Typical Industry Applications of Passive IoT White Paper

This white paper explores the extensive applications and potential benefits of IoT technology in various sectors, and delves into how Passive IoT technology enhances efficiency, reduces operational costs, and bolsters management and monitoring capabilities in these domains, facilitating their transition to more intelligent and efficient systems.

GTI 5G Native Deterministic Technology for New Industrialization White Paper_v1.0

This white paper presents the deterministic demand for key application scenarios based on the comprehensive analysis of 5G enabled digital factory, proposes the core concept of "Native supply of deterministic capability, extreme service for deterministic performance global guarantee for deterministic reliability", as well as summarizes and forecasts the future evolution of 5G native deterministic technology and industry development.

GTI Passive IoT Typical Scenarios White Paper

This white paper focuses on the typical application scenarios of passive IoT, categorizes the scenarios based on the characteristics and capability requirements of the full life cycle of the marking object, and elaborates the business pain points of each scenario with the applicability and value of passive IoT in the corresponding scenario.

Joint Report

Unleashing New Value with New 5G Technology

This report dives into five megatrends in evolution from 5G to 6G, covers nine representative new technologies, and analyzes, in detail, 5G's new value as a new driving force for the in-depth and intelligent development of economy and society. It's hoped to build consensus on 5G technology innovation and value creation, develop and strengthen the 5G industry, and stimulate 5G-enabled economic and social transformation.

GTI Report – 5G-A x AI: New Era, New Opportunities, New Value

This report focuses on the business models and value expansions of 5G, and analyzes new opportunities and values brought by the collaborative development between 5G-A and AI, to gather the industry's consensus regarding how to realize the full potential of 5G A^2, and create a much broader value space for the entire industry.

GTI White Paper

Scan for more GTI white papers

Event Plan in 2024

GTI 3.0

Feb.

GTI Summit 2024
(At MWC Barcelona 2024)
Time: 27th February
Venue: Barcelona, Spain

Feb.

39th GTI Workshop
Time: 24th–25th, February
Venue: Barcelona, Spain

Jun.

GTI Summit 2024
(At MWC Shanghai 2024)
Time: 26th June
Venue: Shanghai, China

Jul.

40th GTI Workshop
Time: TBD
Venue: TBD

Sep.

41st GTI Workshop
Time: September
Venue: TBD

Nov.

The GTI Spectrum Workshop
Time: November
Venue: TBD

KEY MOMENTS

2011

Kick-off of GTI by China Mobile, SoftBank, Vodafone and other operators

2012

Release of world's first TDD/FDD Multimode chips

2013

Release of world's first MMMB smart phone

2014

World's first TD-LTE VoLTE phone call was made

2015

Release of 5-Mode Low Cost Device Solutions

Release of Native RCS Devices

2016

Launch of GTI 2.0 by China Mobile, Bharti Airtel, KT, SoftBank and Vodafone to promote 5G development and cross-industry innovation

Release of HPUE on Band 41 to promote Massive MIMO commercialization and improve systematic performance

2018

Release of 5G in China-the Enterprise Story with GSMA

Release of GTI 5G S-Module Industrial Cooperation Plan to promote wide application of 5G devices and expand the scale of application

2019

Debut of 5G 2.6GHz End-to-end Products to accelerate maturity of 2.6GHz industry chain and promote 5G commercial process

2020

Release of Supportive Policies for a Sustainable Mobile Industry in the 5G Era with GSMA to promote sustainable mobile industry

Release of GTI 5G Global Device Initiative to promote maturity of multi-mode, multi-band and multi-form devices

2021

Unveil the joint "2.3GHz Band Industry Statement" to promote efficient use of TDD 2.3GHz spectrum and accelerate commercial launch by global operators

2023

Release of Unleashing New Value with New 5G Technology, to develop and strengthen the 5G industry, and stimulate 5G-enabled economic and social transformation

GTI 3.0 was launched to promote continued global cooperation, accelerate 5G-A tech and products, foster integration of DICT, and empower 5G monetization to create greater value

2024

More to come . . .
Let's make it together

Release of GTI Report – 5G-A x AI: New Era, New Opportunities, New Value to gather the industry's consensus regarding how to realize the full potential of 5G A^2, and create a much broader value space for the entire industry

Launch of GTI 5G-A×AI Development Program to promote the integrated innovation of 5G and AI in technology, business, ecology, and commerce, and two-way empowerment

Note:

Welcome to join

GTI 3.0

http://www.gtigroup.org