

5G FORWARD

GTI SUMMIT SHANGHAI 2023

28th June, 2023 Shanghai, China



GTI Website



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Official Account

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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 Has Become One of The Most Important Platforms for Industrial Collaboration

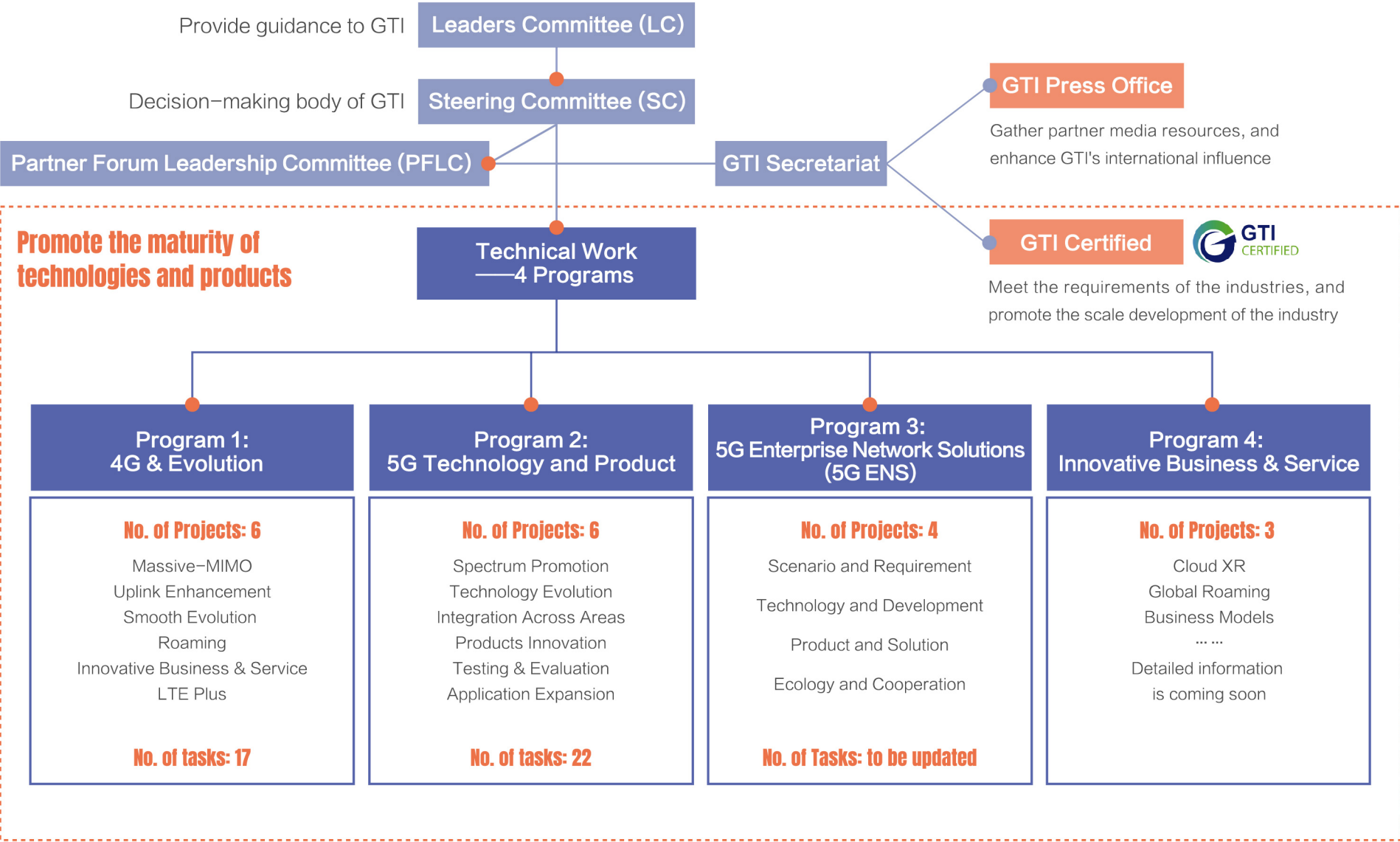


Global Organizations



Focus on **4** programs, **19** projects, **39** tasks

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

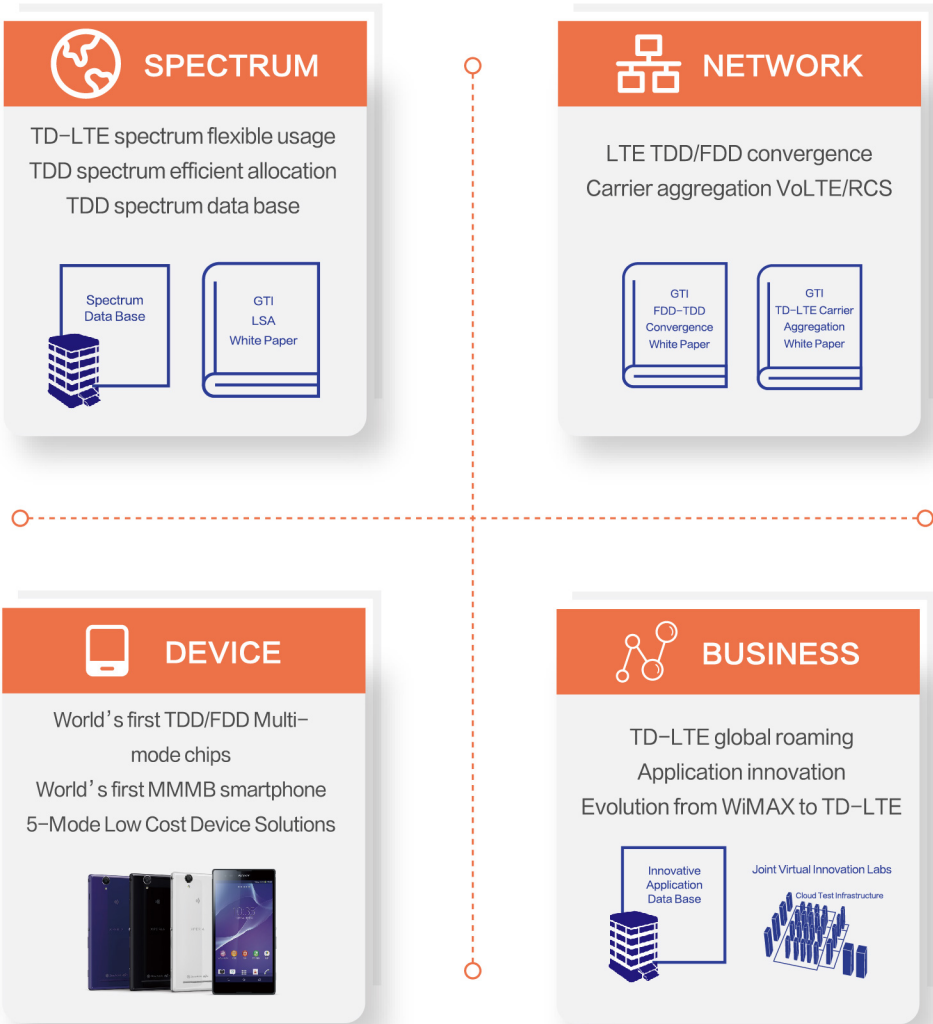


Key Achievements

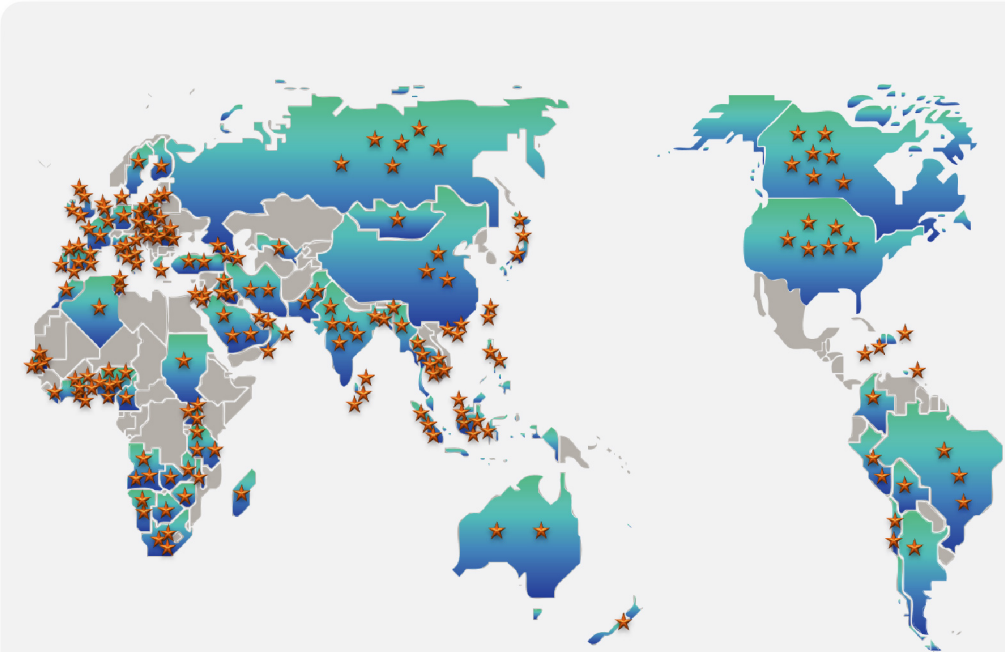
Promote TD-LTE as a global mainstream technology, achieve large-scale commercialization

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

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 **2.93 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 2023

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 **140+** white papers and research reports
- Joint release **5G in China—the Enterprise Story and Supportive Policies for a Sustainable Mobile Industry in the 5G Era** with GSMA

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



- 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 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 2022-2023

GTI 3.0

5G



This document was completed joint based on the actual network elements, which includes the test cases of the configuration and usage of NSSAI, UE route selection policy, interworking with EPC and other service specific network slicing test cases.



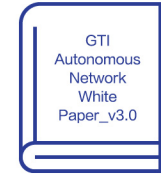
This white paper will update the global market development progress and application trends, analyze the spectrum needs and address how new spectrum could benefit both the new market of mobile networks and the industry innovations. It concludes that additional spectrum is needed for IMT/5G to provide the capacity for innovation and future development. Harmonization of the 6GHz spectrum for IMT is imperative to sustain future capacity needs for affordable connectivity.



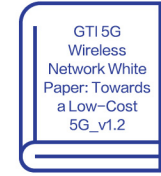
This specification provides evaluation criteria for basic functions and performance in the 5G test. Considering various test requirements, specific test cases and methods are designed, together with the basic requirements for each test category, number of test devices, and tailored agreements.



This white paper tackles a more challenging, complex and practical domain by consolidating the pre-commercial network slicing test results from different chipset platforms and indicates that 5G smartphones and 5G S-modules have been able to support network slicing.

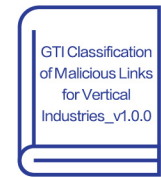


This white paper will focus on the key technologies and high value use cases enabling the L4 autonomy, with expectations to pool strengths from all parties to solve the challenges and fully unleash the potential of those new trending and solutions to help the industry moving its way forward.

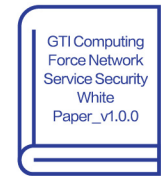


This white paper will serve as a platform to share and present the solutions and experience of the low-cost 5G network deployment, thus providing a reference to the industry partners to jointly promote the low-cost 5G industry maturity, drive its scale commercialization, and embrace the property of 5G ecosystem.

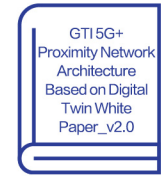
5G ENS



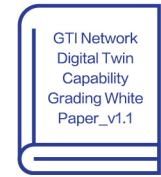
This white paper aims to unify the malicious links classification framework and standardize the type and name of malicious links. This is conducive to the design, development, construction and evaluation of the malicious links monitoring system. At the same time, it provides basic support for different vendors to realize information sharing and exchange. It also provides strong support for internet governance.



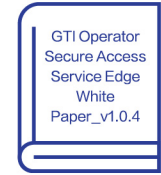
Based on the service operation mechanism of the computing force network, this white paper comprehensively analyzes the security risks and gives the security strategies in the four stages of user access, computing network arrangement, task execution and transaction settlement, so as to guide the industry to improve the security ability of computing network service.



This white paper introduces the digital twin-oriented 5G+ proximity network architecture, and gives the future 5G+ proximity network technology evolution direction and application prospects based on market, industry, technical requirements, etc., which may promote the digital and intelligent transformation of vertical industries.



This white paper constructs a network digital twin capability grading system. It provides technical requirements based on the characteristics of each level, and the application value of network digital twin is reflected in combination with typical scenarios and use cases. Finally, the future evolution of network digital twin technology and industry development are summarized and prospected.



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.

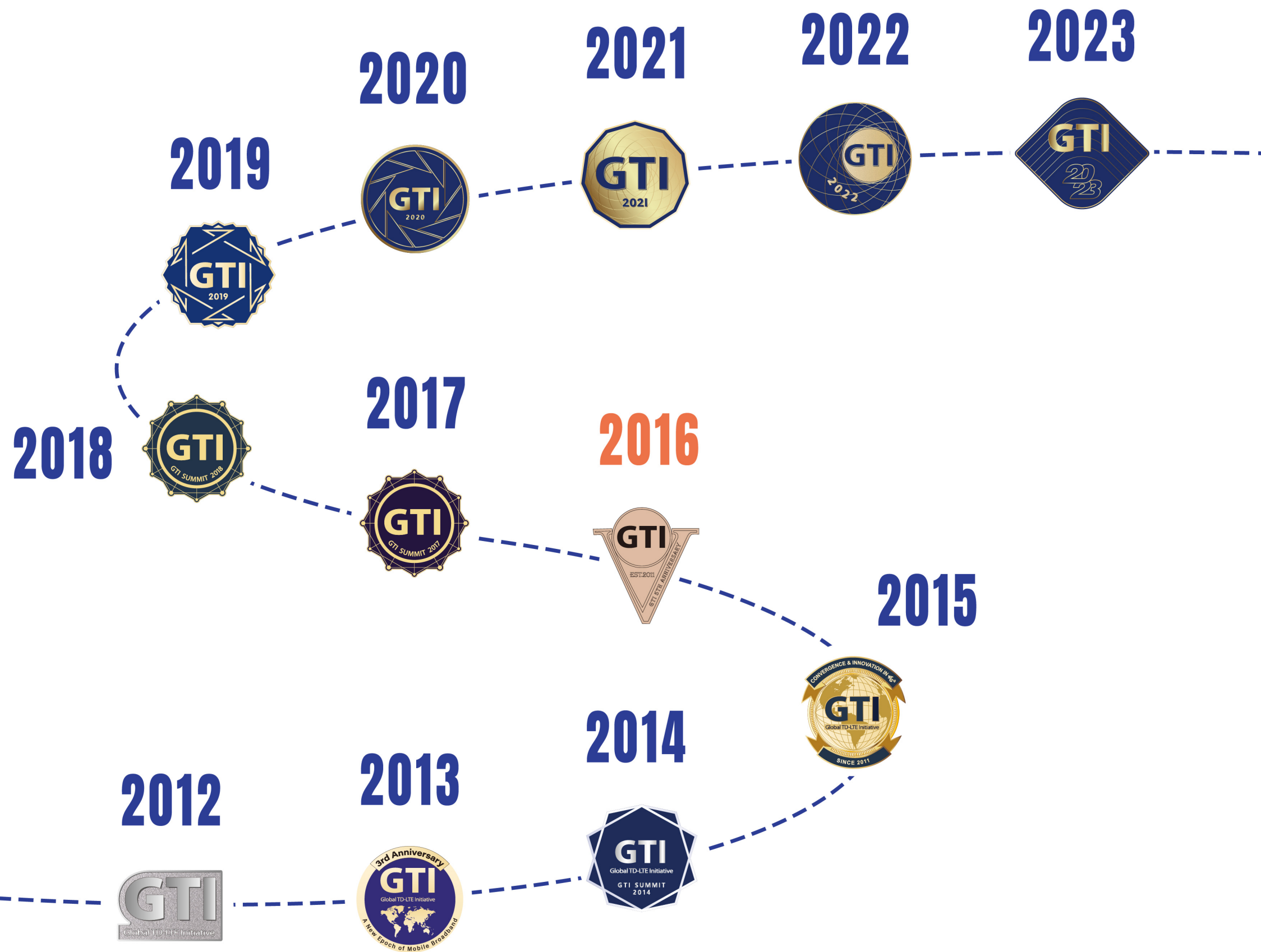


Scan for more GTI white papers

Event Plan in 2023



GTI



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



2011

发布全球首款多模多频智能手机



2013

Release of world's first TDD/FDD Multimode chips



2012

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



2014

Release of 5-Mode Low Cost Device Solutions



Release of Native RCS Devices



2015

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



2016

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



2018

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



2019

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



2020

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



Launch of GTI 3.0 by China Mobile and over 20 global organizations, operators and industry partners for continued global cooperation on 5G-ADV¹ toward greater commercial success



2021

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

KEY
MOMENTS

Note:

Welcome to join

GTI 3.0

<http://www.gtigroup.org>