GLOBAL INDUSTRY ORGANIZATIONS

Summary for the 12th GIO Roundtable

October 2023

Basic Information About the 12th GIO Roundtable

- **Theme**: Fast-tracking Industry Digitalization with AI
- **Goals**:

Goal 1: Share the progress of AI penetration in vertical industries, scenarios in which AI will be widely adopted, and the role of standardization.
Progress: Attendees discussed the progress of AI application, standards, and industry development across sectors such as manufacturing, autonomous driving, telecommunication, and electrical and electronics manufacturing.
Goal 2: Define the role of industry organizations in developing a thriving ecosystem and the next steps.
Progress: Attendees discussed how AI engineering lays a trustworthy and intelligent foundation for industries, how to manage AI risks while harnessing its benefits, and how to drive sustainable development of AI. Attendees also shared the next steps of industry organizations, including accelerating data sharing, sending key ecosystem players to different industries to speed up standardization, and organizing more AI-focused conferences.

- **Date & Time**: September 20, 2023, 09:00–13:00 (CET)
- **Location**: Shanghai, Copenhagen, Online
- **Cohost**: TM Forum

Photo at the Shanghai venue

Photo at the Copenhagen venue

Agenda

Session	Topic	Speaker	Organization	Time(CET)
Opening	New Faces Introduction	Juergen Grotepass	ZVEI	09:00-09:05
	Opening Remarks	William Xu Tim Banham	GIO Chair GIO Co-Chair	09:05-09:10
AI Application, Standardization, and Progress in Different Industries	AI Empowers High-Quality Development of the Digital Economy	Wen Gao	AITISIA	09:10-09:30
	AI for Manufacturing	Chuck Byers	IIC	09:30-09:50
	AI for Autonomous Driving	Shinpei Kato	The Autoware Foundation	09:50-10:10
	AI for Telecommunication	Luis Jorge Romero	ETSI	10:10-10:30
	Open discussion 1: Role of Industry Organizations and How They Can Better Collaborate in AI-enabled Digitalization	All participants	-	10:30-11:10
Coffee Break				11:10-11:20
Building a Safe and Trustworthy AI Industry Environment	AI Engineering: Laying a Trustworthy and Intelligent Foundation for Industries	Liang Wei	CAICT	11:20-11:35
	Managing AI Risks while Harnessing Its Benefits: Measuring Progress	John Higgins	Global Digital Foundation	11:35-11:50
	Driving Sustainable Development of AI - a Perspective from Mobile Industry	Li Lin	GSMA Greater China	11:50-12:05
	Open discussion 2: How Can Industry Organizations Support the Healthy, Sustainable Development of AI?	All participants	-	12:05-12:45
Ending	Wrap-up	Martin Creaner	WBBA	12:45-13:00

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Attendees of the 12th GIO Roundtable

- There were 42 guests (including accompanying staff) from 31 organizations, and 13 of them were first-time attendees.
- The numbers of organizations and attendees (including first-time attendees) all hit a record high. We also had our first observer – a representative from T-Systems.

* Those in red are first-time attendees

- Shanghai session: 30 attendees from 20 organizations

Role	Organization	Name	Title
Moderator	ZVEI	Juergen Grotepass	Chairman of the ZVEI working Group 'AI in Automation'
Speakers	AITISIA	Wen Gao	Chairman
	Autoware Foundation	Kato Shinpei	President
	CAICT	Liang Wei	Vice President
	Global Digital Foundation	John Higgins	Chairman
	GSMA Greater China	Li Lin	GM of Ecological Cooperation
Participants	6G Forum	Chang Kyung Hi	Chairman
	6G Health Institute	Christoph Thuemmler	Scientific Director
	BSI	Harold Pradal	Chief Commercial Officer
	ITS	Yan Xu	Board of Directors
	ITU	Frederic Werner	Head of Strategic Engagement
	NetworldEurope	Rui Luis Aguiar	Chair of the Steering Board
	The Open Group， AEA	Chris Forde	Vice President
	CIC	Yanchuan Zhang	Vice President and Secretary General
	CCSA	Ku Wen	Chairman
	CHINA INFO 100	Yan Zhu	Member of the Executive Committee
	EuropElectro/ZVEI	Xu Wang	Head of EuropElectro and the China Representative of ZVEI
	SAC/TC124	Jinsong Ouyang	Vice Chairman
	5GDNA	Zemin Yang	Chairman, GIO Special Advisor
	China Branch of BRICS Institute of Future Networks	Yutao Zhu	Chairman

- Copenhagen session: 5 attendees from 4 organizations

Role	Organization	Name	Title
Speaker	TM Forum	Tim Banham	CCO&EVP
Participants	TM Forum	Kevin Xu	Asia Program Director
	5GSA	Luigi Licciardi	Chairman
	WBBA	Martin Creaner	GIO Special Advisor
Observer	T-Systems	Ralf Pilcher	Managing Director & SVP T-Systems International

- Online session: 7 attendees from 7 organizations

Role	Organization	Name	Title
Speaker	IIC	Chuck Byers	CTO
Participants	5G-MAG	Jordi J. Gimenez	Head of Technology
	IVI	Nobuyuki Ogura	Chair for Reference Architecture Task Force
	UK 5G/6GIC	Rahim Tafazolli	President
	Fraunhofer	Xiaolong Ma	Chief Representative of Fraunhofer Beijing Office
	AFNOR	Louis Morilhat	Project Manager on Artificial Intelligence
	Fraunhofer IPK	Holger Kohl	Deputy Director of Fraunhofer IPK Institute

Key Messages: Remarks by Co-chairs

William Xu, GIO Founder & Chair

GIO is an open communication platform that is accessible to all and aims to enhance communication and understanding between industry organizations. It is gaining support from an increasing number of industry organizations and has already released multiple white papers on digital transformation. The world is facing many challenges, such as those related to AI governance and how AI can enable industry digitalization, autonomous driving, ecosystem partners, blockchain, and Web 3.0. There are still so many challenges we must discuss and solve together.

Tim Banham, TM Forum, the 12th GIO Co-chair

As one of the start-up organizations and founding members of the GIO, we're really pleased to see how it's evolved over the last six years. It's really important that we work together to continue to drive the evolution of industries, leveraging the important technologies around AI. TM Forum has built lots of assets in this area and all around how we can enable network automation, intelligence, and those vertical industries that are so important to the growth of this connectivity industry.

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Key Messages: AI Application, Standardization, and Progress in Different Industries

Wen Gao, Founding Director of Pengcheng Laboratory/ Chairman of ATISA

Computing power, especially intelligent computing power, will be a key source of productivity in the digital age. It will serve as a foundation for national economic and social development. For computing power to support the digital economy, computing networks will need to be connected and be seen as critical infrastructure.

Chuck Byers, CTO of Industry IoT Consortium

Artificial intelligence will influence many aspects of life. In manufacturing, it will have a deep impact on quality, productivity, cost, efficiency, agility, safety, environmental and labor aspects of factories and supply chains. When integrated with IoT sensors, actuators, edge computers, Internet, cloud and digital twins, powerful new capabilities result. As with all disruptive technologies, AI has good and bad impacts. Organizations like OMG and GIO can help establish guiderails for AI.

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Key Messages: AI Application, Standardization, and Progress in Different Industries

Shinpei Kato, Chairman of the Autoware Foundation

AI technologies are becoming increasingly important in the autonomous driving industry. The Autoware Foundation has been taking proactive leadership in pushing forward open source strategy to widely address the concerns and solve problems by providing frameworks and platforms for the community to develop autonomous driving systems and utilize the new AI technologies.

Luis Jorge Romero, Director General of ETSI

AI will be an inevitable component of our future telecommunication networks, through all the elements in the telecoms chain. Unwanted misbehavior of AI should be avoided, and people should be taken care of, for which security is a must and testing will be fundamental to ensure compliance. Global cooperation and coordination in standards are key to enable healthy growth of AI. ETSI is fully committed and contributes to all the steps.

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Key Messages: Open Discussion 1: Role of Industry Organizations and How They Can Better Collaborate in AI-enabled Digitalization

Harold Pradal, CCO of BSI

While industry organizations collaborate in AI-enabled digitalization, the first concept is being around trust and the importance of trustworthiness of the data, players and basically the whole processes. The second concept is the cooperation across many players, whether it be governments, industry sectors, and a lot of associations.

Rui Luis Aguiar, Chairman of the Steering Committee of NetworldEurope

The value of data in AI cannot be understated, but we are facing many challenges and problems when it comes to sharing data. If we want to make progress with AI, to have external validation, and to earn a positive reputation for AI, we need to improve how data is shared. This includes balancing what we make public and what we don't and how to exchange data.

Chang Kyung Hi, Chairman of 6G Forum

Intelligence is one of the key matters in the next-generation mobile communication systems. For the 6G network to be AI native, there are two issues. The first one is the privacy of the data, and the second is we are struggling to diffuse and spread the 5G networks, but it is not fast enough.

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Key Messages: Open Discussion 1: Role of Industry Organizations and How They Can Better Collaborate in AI-enabled Digitalization

Martin Creaner, Chairman of WBBA, GIO Special Advisor

In terms of the core question, I do think it is around shared libraries of data between industry organizations. The valuable role that GIO can operate within this is to try and aim for some framework among its industry organizations across from China, South Korea, Japan, Europe and the U.S. to identify how we might build a framework for populating shared data libraries that can be made available in essentially an open source fashion to allow the testing and learning process within AI.

Rahim Tafazolli, President of UK 5G/6GIC

Telecommunications requires high levels of reliability. So it's very difficult to use AI in telecommunications without explaining the decision AI has made. Explainable AI will help us overcome biases in the decisions that different AI systems could potentially make. From a standards and industry point of view, if we can agree on a data format for training AI, we could help with the delay and latency of data collection, processing, annotation, evaluation, etc.

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Key Messages: Open Discussion 1: Role of Industry Organizations and How They Can Better Collaborate in AI-enabled Digitalization

Luigi Licciardi, Chairman of 5GSA

Slicing is a great area where to use artificial intelligence capability. In particular, the creation of dynamic slicing is something that is of significant interest. We can use traditional AI to select what is the best slicing or GenAI to create a new concept of slicing. In terms of sustainability, considering the high computing request of AI, we should work on algorithms that understand how to get away the bad data with respect of the good data.

Nobuyuki Ogura , Chair for Reference Architecture Task Force of IVI

We should unite on what we can all agree and use the role of industrial organizations or GIO to take the best practice issue. The degree of AI adoption in each domain is quite different and we can gain experiences from advanced areas.

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Key Messages: Build a Safe and Trustworthy AI Industry Environment

Liang Wei, Vice President of CAICT

AI engineering systems are built on four pillars: AI tools, data governance, operations management, and risk management. We look forward to building consensus on AI engineering with standards organizations across industry and academia, so that we can jointly promote AI engineering, introduce it into the end-to-end AI R&D process, and develop full-stack technologies and tools. We will also need to focus on high-quality data supply, advanced operations management, and systematic risk management. Ultimately, we will remove barriers to AI application and speed up AI adoption across different industries.

John Higgins CBE, Chair of Global Digital Foundation

The benefits of AI are becoming increasingly clear. But people and businesses are concerned about the risks. Fortunately, responses to the common risks such as lack of transparency, bias and security are being developed around the world. These responses take various forms such as regulations and standards and these share many common characteristics across different countries and regions. Organizations like Global Digital Foundation are working on usable frameworks that build on these responses. These frameworks will build trust in AI and will allow providers of good AI to deliver much-needed benefits to their customers.

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Key Messages: Build a Safe and Trustworthy AI Industry Environment

Li Lin, Head of Ecosystem Engagement GSMA Greater China

In the mobile industry, AI is having a profound impact on improving both connectivity and customers' experience. Moreover, AI can better support the UN's Sustainable Development Goals. GSMA is taking pro-active industry leadership in driving sustainable development of AI, by providing a common framework for international collaboration and by providing a strong governance structure and a self-assessment tool to bridge the gap between ethical principles and business practice. Industries, international communities and organizations need to work together to ensure the sustainable development of AI, and creates an environment where AI operates reliably, responsibly and fairly for everyone, and leaves no one behind.

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Key Messages: Open Discussion 2: How Can Industry Organizations Support the Healthy, Sustainable Development of AI?

Frederic Werner, Head of Strategic Engagement, ITU

Trust plays an important role in society. The biggest problem we currently face in terms of trust is differentiating the real from the fake, like fake news and deepfakes. To build trust in AI, we need a technical solution that will identify and confirm the existence of AI, and to develop a penalty framework for this.

Zemin Yang, Chairman of 5GDNA, GIO Special Advisor

AI systems are responsible for so many judgments and decisions that the risk they pose could be bigger than we ever imagined. As a platform for industry organization discussions, GIO should focus on and thoroughly discuss these issues surrounding AI security, ethics, and legal system.

Xu Wang, Head of EuropElectro, China Representative of ZVEI

AI will continue to develop. In the electrical and electronics manufacturing industry, AI will see widespread adoption. So, we need to focus on how to enable this industry's SMEs to seize these opportunities and join the supply chain. Manufacturers need to work more closely with partners from other sectors, and industry associations need to play an active role in integrating industry data infrastructure.

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Key Messages: Open Discussion 2: How Can Industry Organizations Support the Healthy, Sustainable Development of AI?

Ku Wen, Chairman of CCSA

We should be happy about the arrival of AI, not panicking. When we talk about AI, we should be talking about two things: development and security. Development is our top priority. Without development, security would be just empty talk. And no matter how fast AI develops, we should always ensure security.

Jinsong Ouyang, Vice Chairman of SAC/TC124

AI will see widespread adoption in industry, but before this happens we need consistent terms and definitions to ensure that all parties can work with the same understanding. We also need to specify the application and technical requirements for industry applications so that AI applications can be adapted to different industries.

Christoph Thuemmler, Scientific Director of 6G Health Institute

There needs to be a clear framework that is holding people responsible. When we are talking about ethics then we have to talk about the very strict legal framework because only with morals and ethics will we be able to do that.

Kevin Xu, Asia Program Director of TM Forum

AI will be a constant hot topic in the next decades. We must find a way to support the sustainable development of AI rather than waste too much money. In order to achieve better collaboration, I think the industry associations should take more of a role on how to bring the industry together.

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Key Messages: Summary

- *Industry consensus:*
  - AI will be an indispensable part of all industries and has broad application prospects.
  - Data is of great value in AI, but data sharing faces many challenges.
  - We should manage the risk of AI while benefiting from it.
  - A clear accountability framework needs to be established.
- *Collaboration and next steps:*
  - We can build a framework among cross-regional industry organizations for populating shared data libraries that can be made available in an open source manner to support AI testing and learning.
  - GIO and other industry organizations can fully utilize their roles and continue to focus discussions on issues such as AI security, ethics, and legal systems.

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The 12th GIO Roundtable: Questionnaire Results

A total of 12 questionnaires were collected following the conference:

- Overall rating of the meeting (with a total score of 10 points)
  "How do you feel about the GIO roundtable?": **9.4**
- Recommended topics for future GIO roundtables:

AI for Green
Sustainability of cloud and network
Ethics in industry
Similar multi industry perspectives with a common thread
cloud computing
Brain machine interfaces
Web 3.0
Problem-driven research and discussion
Vertical industry
Establish a global mechanism for scientific and technological innovation and cooperation

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Thank you.

Collaborating for Digital Economy Growth
Building a Better Intelligent World