



Igniting a New Intelligent Future and Building Global Consensus on AI Standards

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Pooling industry expertise and building core consensus on industry intelligence

The 17th GIO Roundtable

Exploring trends and key enablers for industry intelligence

March 3, 2026 (MWC), Barcelona/Beijing



Core consensus

1. Industry intelligence is evolving toward **autonomous intelligence, end-to-end coverage, and data-driven operations**.
2. Industry intelligence faces multiple challenges, including **data silos, security, and commercialization**.
3. **Unified standards, efficient data flows, and systematic governance** are essential to advancing industry intelligence.

GIO thematic workshop

Exploring industry intelligence practices

July 18, 2026 (WAIC), Shanghai



Core consensus

1. The Agentic AI paradigm is rapidly evolving from assistive human–AI collaboration to autonomous closed-loop execution. **AI agents are moving beyond isolated decision support and becoming deeply embedded across end-to-end business processes**.
2. As AI increasingly empowers industries of all kinds, **security is becoming more critical**. A trusted security framework integrating security by design, behavior control, and least-privilege access is required.
3. **Standardization is critical to the scaled adoption of industry intelligence**. Industry players must work together to advance AI standardization, turn proven industry AI practices into broadly applicable standards, and use these standards to drive industry-wide upgrading.

Standards are a key enabler for scaling industry intelligence applications

AI in 2026: A critical turning point **from technological innovation to industrial application**

Technology: Continued expansion and architectural innovation in Agentic AI

Applications: High-quality data and high-value scenarios

Strengthening **coordinated top-level design** and defining a clear strategic direction

Architecture standards

Clear division of roles and industry-wide collaboration are key to achieving economies of scale in industry intelligence

Open source and ecosystem development

Promoting the reuse and sharing of proven industry experience and reducing trial-and-error costs

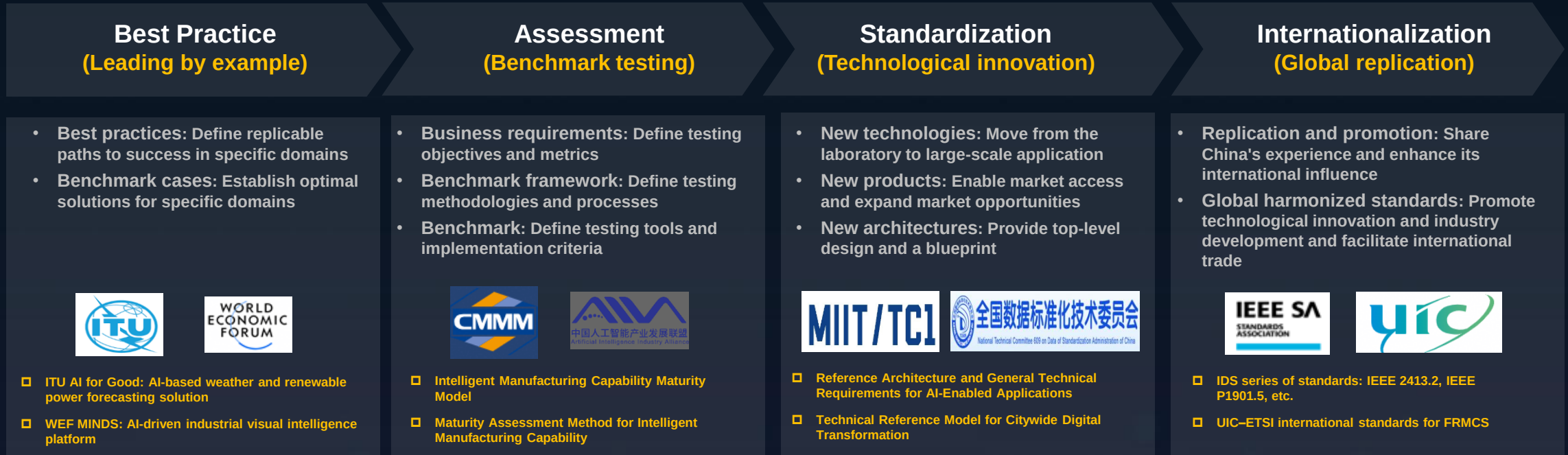
Technical standards for scenarios, data, and other areas

Relying on open international cooperation to advance **equitable access to AI** and upholding **AI for good**

AI governance standards

Industry digitalization and intelligence standards: Developing industry benchmarks, enabling scaled adoption, and jointly building secure and reliable AI standards

Continuously promoting the unified, open, and orderly evolution of global AI standards and laying a solid foundation for the healthy development of the industry



AI Governance (Building responsible AI)

AI governance framework, governance principles, and multi-stakeholder collaborative governance system

- ISO/IEC 42001
- ISO/IEC 42007
- ISO/IEC 5259 Series
- ISO/IEC 27090
- ISO/IEC 27091
- Cybersecurity technology — Methods for identifying AI-generated and synthetic content

Architecture standards: Creating a new paradigm for open, decoupled, and collaborative development of the AI industry

Artificial Intelligence Standardization Technical Committee of the
Ministry of Industry and Information Technology (MIIT/TC1)

2026 MIIT key standard: Reference Architecture and General Technical
Requirements for AI-Enabled Applications



Using architectural **certainty** and **standards-based consensus** to
address **uncertainty** in AI development

Coordinating top-level design

Align with business objectives
Coordinate the direction of top-level design

Standardizing the technical architecture

Establish a common technical language
Improve industry collaboration efficiency

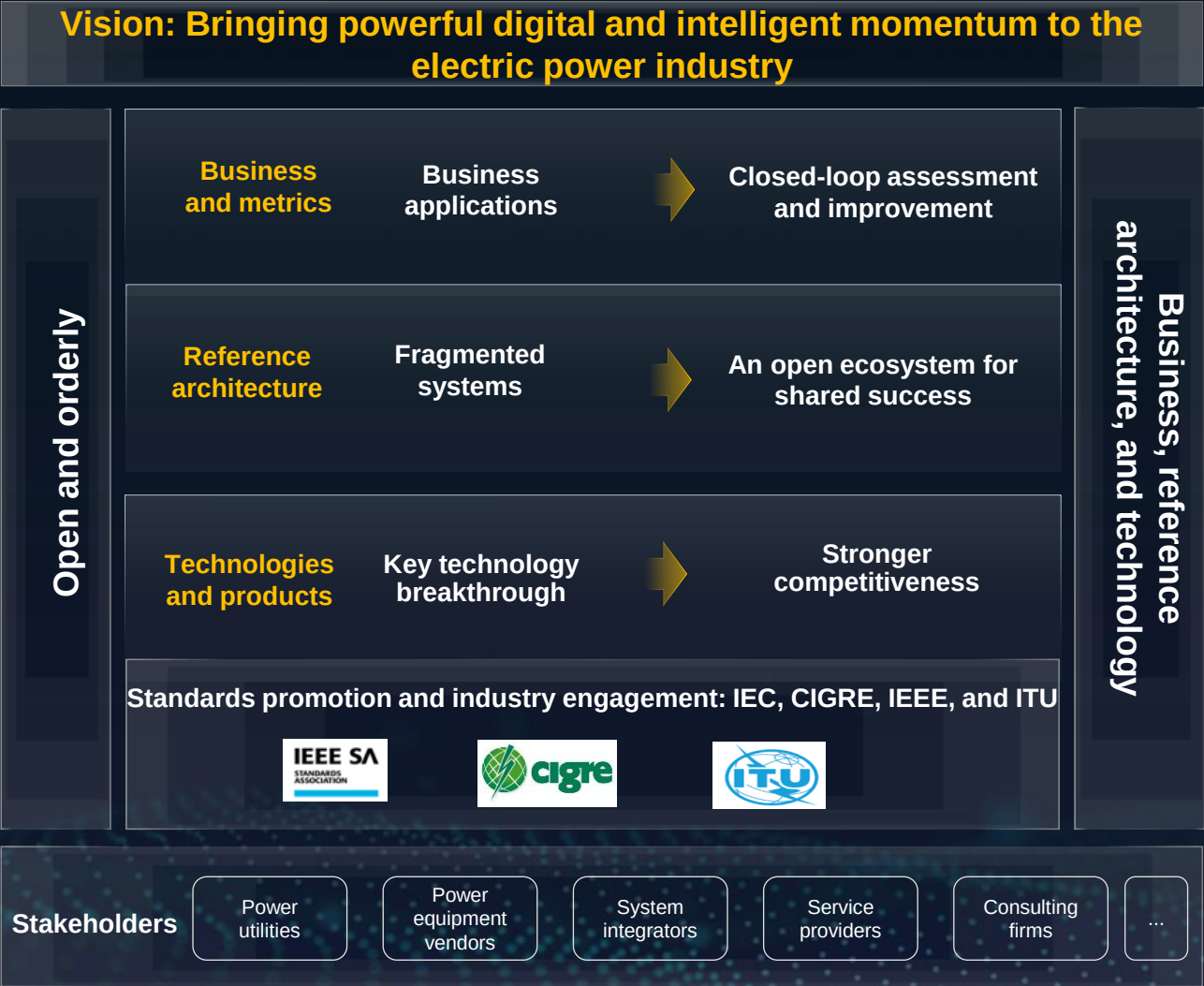
Guiding industry implementation

Provide reference architectures for
typical applications in electric
power, manufacturing, and
transportation

Promoting ecosystem collaboration

Enable openness and decoupling
Build an open and collaborative
ecosystem jointly

Electric power: Building a "3+1" standards system and fostering an open and thriving ecosystem for power digitalization and intelligence



- Identify gaps and enable continuous, layered improvements in digital maturity
 - IEEE assessment framework for the digital and intelligent maturity of low-voltage distribution networks
- Share costs and enable systems to interoperate and evolve
 - IEEE 2413.2, the reference architecture standard for the Power Distribution Internet of Things (PDIoT) officially published
- Support long-term technology evolution while protecting existing investment
 - IEEE P1901.5 project on next-generation SPLC officially approved
- Share practical experience and contribute to industry development
 - CIGRE: actively participated in D2.65 and D2.66, expanding and strengthening technical research into power communications across a broad range of scenarios
 - ITU: Four projects selected for the AI for Good case portfolio, including one winner of an Innovate for Impact award

Transportation: Using standards to accelerate the digital and intelligent upgrading of the transportation industry

1. Establishing a top-level paradigm for transportation intelligence

Participate in developing China's national AI application standards system for transportation

Information not yet released is not shown here.

Contribute a layered AI reference architecture for transportation
Establish unified top-level technical specifications for computing, data, applications, and security and provide the industry with a clear paradigm to follow



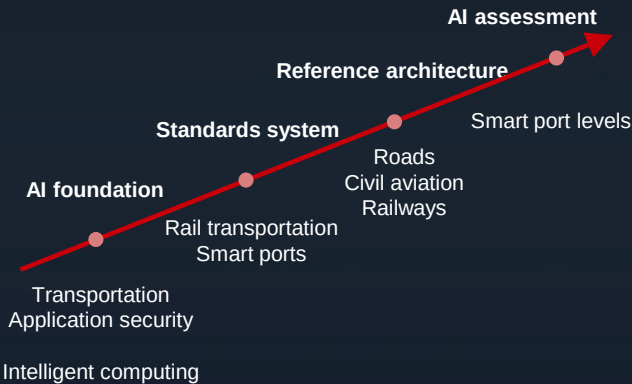
National Technical Committee on Intelligent Transport Systems of Standardization
Administration of China
SAC/TC268



China Intelligent Transportation Systems Association

2. Translating architecture standards into implementable industry practices

Advance AI architectures and applications in ports, rail transportation, and other sectors



Extend the general AI architecture into rail transportation, ports, and other sectors, translating general standards into implementable practices



3. Contributing China's technical paradigms to the world

Contribute to international FRMCS standards



Contribute engineering-validated architecture and technology experience to UIC-ETSI international standards for FRMCS
Move from implementing Chinese standards to contributing to international standards



International Road Federation (IRF) Award



China's Intelligence, Global Benefits case

Working with customers, partners, and global standards organizations to codify innovation in standards, develop standardized architectures and systems, and support the intelligent evolution of transportation.



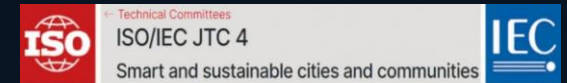
Cities: AI City standardizes collaboration between AI and data to advance citywide digital and intelligent transformation

An AI City data infrastructure framework for the AI era, driven by industry requirements to enable data flows and unlock data value

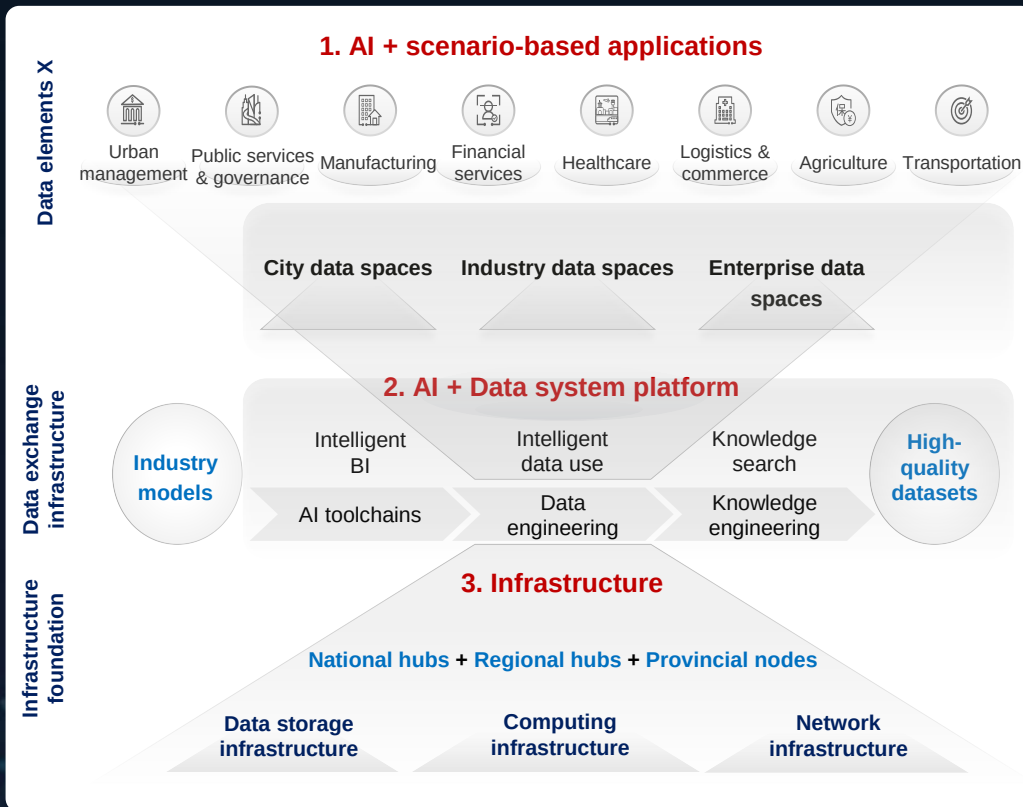
Systematically advancing data standards, promoting domestic and international collaboration, and enabling data interconnectivity and interoperability



SAC/TC609: National data standardization technical committee



ISO/IEC JTC4: Smart and sustainable cities and communities



Business application driven
Enabling effective data use

Data Element X Action Plan: **Unleashing the value of data**
Guiding Opinions on Advancing Citywide Digital Transformation: **Clarifying the transformation pathway**

Trusted data exchange
Enabling data to flow

Assessment of Effective Use of Urban Data: **Establishing an assessment system**
Guidelines for Building a Trusted Urban Data Space: **Building trusted data exchange environments**

Strengthen high-quality data supply
Enabling a reliable supply of high-quality data

Guidelines for Developing High-Quality Datasets: **Improving the quality of data supply**
Capability Maturity Model for the Development and Operation of High-Quality Datasets: **Improving operational effectiveness**

Digital foundation enablement
Strengthening the data foundation

Guidelines for National Data Infrastructure Development: **Standardizing and strengthening the data foundation**
National Integrated Computing Power Network: **Coordinating the unified scheduling of computing resources**

Manufacturing: An intelligent manufacturing standards system supporting the development of pioneering-level smart factories

Multidimensional standards enable the systematic transformation of intelligent manufacturing

Establishing an integrated framework covering intelligent factories, solutions, and standards to move intelligent manufacturing from pilot demonstrations to systematic transformation

Tiered development of intelligent factories
Action plans and eligibility requirements

Typical intelligent manufacturing scenarios
Reference guidelines

GB/T39116-2020
Intelligent Manufacturing Capability Maturity Model

GB/T39117-2020
Maturity Assessment Method for Intelligent Manufacturing Capability

Intelligent manufacturing maturity assessment standards supporting the tiered development of intelligent factories

Maturity levels

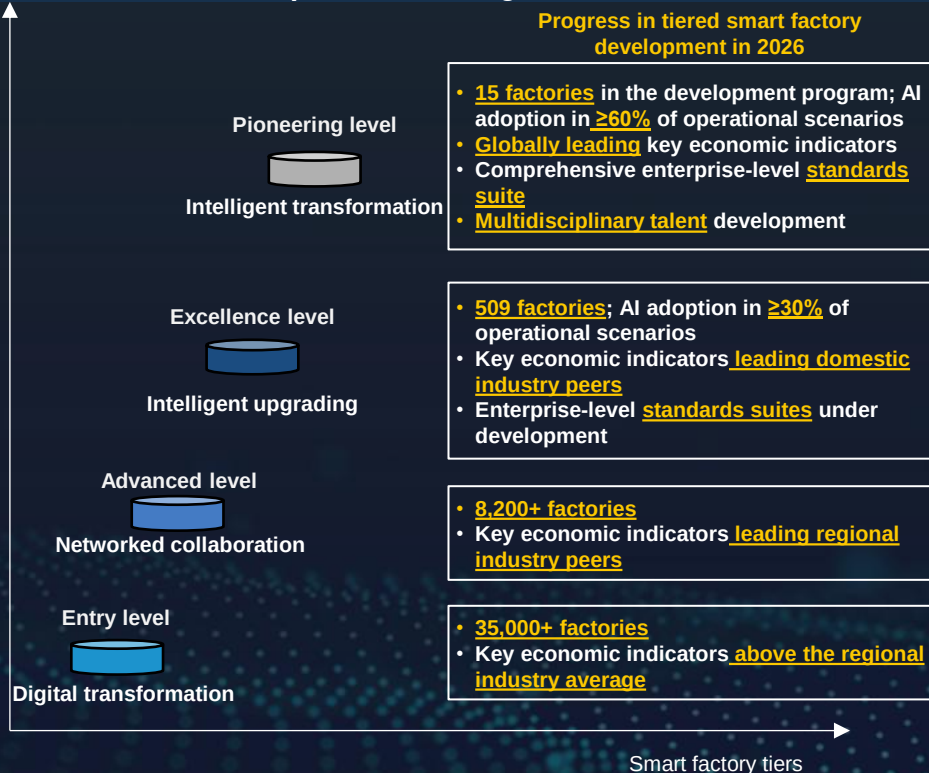
Level 5
Industry value chain innovation

Level 4
Intelligent production

Level 3
Networked integration

Level 2
Digital transformation

Level 1
Process-based management



A suite of intelligent manufacturing standards enables proven solutions to be replicated and deployed at scale

- The *Guidelines for Developing an Intelligent Manufacturing Standards System* provide **top-level guidance** and define **key priorities** for standards development.
- National standards such as the *Intelligent Manufacturing Capability Maturity Model*, *Intelligent Manufacturing System Architecture*, and *Specification for Intelligent Manufacturing Capability Development* provide enterprises with **standardized, end-to-end methodologies and assessment criteria** for intelligent upgrading and factory development.

Establishing industry benchmarks, demonstrating leadership, and enabling the intelligent upgrading of industries

AI-driven industrial visual intelligence platform
Selected as a WEF MINDS AI application

ICT & Media, Manufacturing, Supply Chain & Transport 2026

Training Production Line Inspection Models with Real-World Images for Accurate Defect Detection

Problem
In the manufacturing process of ultra-luxury new energy sedans, quality inspection is a notable challenge. The electrical architecture of these vehicles leads to a sharp increase in the total number of connectors, from over 100 to over 500, with quality inspection points per vehicle exceeding 2,000. This complexity makes it more likely to miss defects, such as misaligned terminals, loose wiring, damaged cable ties, broken connectors, missing connectors, component damage, and character errors, which require high skill levels to detect, but the diversity of defect types and varying skill levels of personnel make it difficult to ensure consistent quality. The consequences of missed inspections are severe, with a single rework costing tens of thousands of yuan and subsequent capability platform errors that may affect multiple product batches, leading to extra cost and consuming resources. This issue affects not only vehicle manufacturers but also electronics manufacturers and related component enterprises. The importance of addressing this issue lies in the fact that quality is the core reaction of trust crisis, leading to a decline in customer satisfaction. Unresolved, this issue will result in uncontrollable quality risks, distributed production capacity ramp-up, deterioration of the cost structure, and production line shutdown risks. Currently, manual inspection is the main method, and traditional computer vision systems and traditional vision systems are being used to detect defects in luxury vehicles, but they are limited by their inability to adapt to complex and variable production lines. These existing methods, which rely only on fixed solution algorithms and camera-based inspection models, are also limited by their lack of scalability and generalization capabilities. The development of a scalable, efficient, and accurate inspection model is a key challenge for the industry.

Organizations
Anhui Janghual Automobile Group Co., Ltd.
Huoh, CN | 10K+ employees
Huawei Technologies Co., Ltd.
Shenzhen, CN | 10K+ employees

Organization headquarters
People's Republic of China

Countries of deployment
China

Advancing the intelligent manufacturing standards system to enable manufacturers to develop pioneering-level and excellence-level smart factories



National Intelligent Manufacturing Expert Committee



Intelligent Manufacturing System Solution Supplier Consortium



Embracing industry intelligence through open collaboration and jointly building a new global ecosystem for AI standards



**Reshaping industries
with AI**

**Boosting enterprise
productivity**



**Building the Agentic AI
industry together**

Advancing AI Intelligence



**Shaping global AI
standards together**

**Advancing sustainable AI
development**