Mobile AI Era Calls for Multi-dimensional Connectivity, Bringing New Business Opportunities

Mobile Data Era

Mobile AI Era

4G-> 5G

100Mbps **10x** 1Gbps

Quantity
User Connections
Duration Time

Quality
Revolution:2K->4K/8K
Frame Rate: 30->60 ftps

Diversity
Live Broadcast Game | VR

Service Change

Network Upgrade

Business Driving

5G-> 5G-AI

1Gbps-> **xGbps**

+ Uplink, Latency, SLA…

New Device
People | Home | Vehicle

New Content
AIGC:Text / Picture / Video / 3D…

New Interaction
Multi-modal Interactions

Sigle Monetization

Volume Based Package

Multi Dimensional Experience Monetization

Speed-Based Guarantee	Service-Based Guarantee	Scenario-Based Guarantee

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AI Growth is Driving ICT Industry with New Capabilities and Innovations

Improving AI Capabilities

AI models → Multi-modality
Market share of 2025: **78%**

Source: IDC

Select scenarios (in healthcare, finance, etc.)
Inference accuracy **>** Human experts

Source: McKinsey

AI agents: Reactive response → Proactive planning
By 2027: **4 bn** AI agents

Source: IDC

Faster AI adoption

Significantly lowered bar for AI adoption
LLM inference cost ↓**100x** (over the past 2 years)

Source: SemiAnalysis

Generative AI user base has doubled twice in two years
2 bn users worldwide by year end
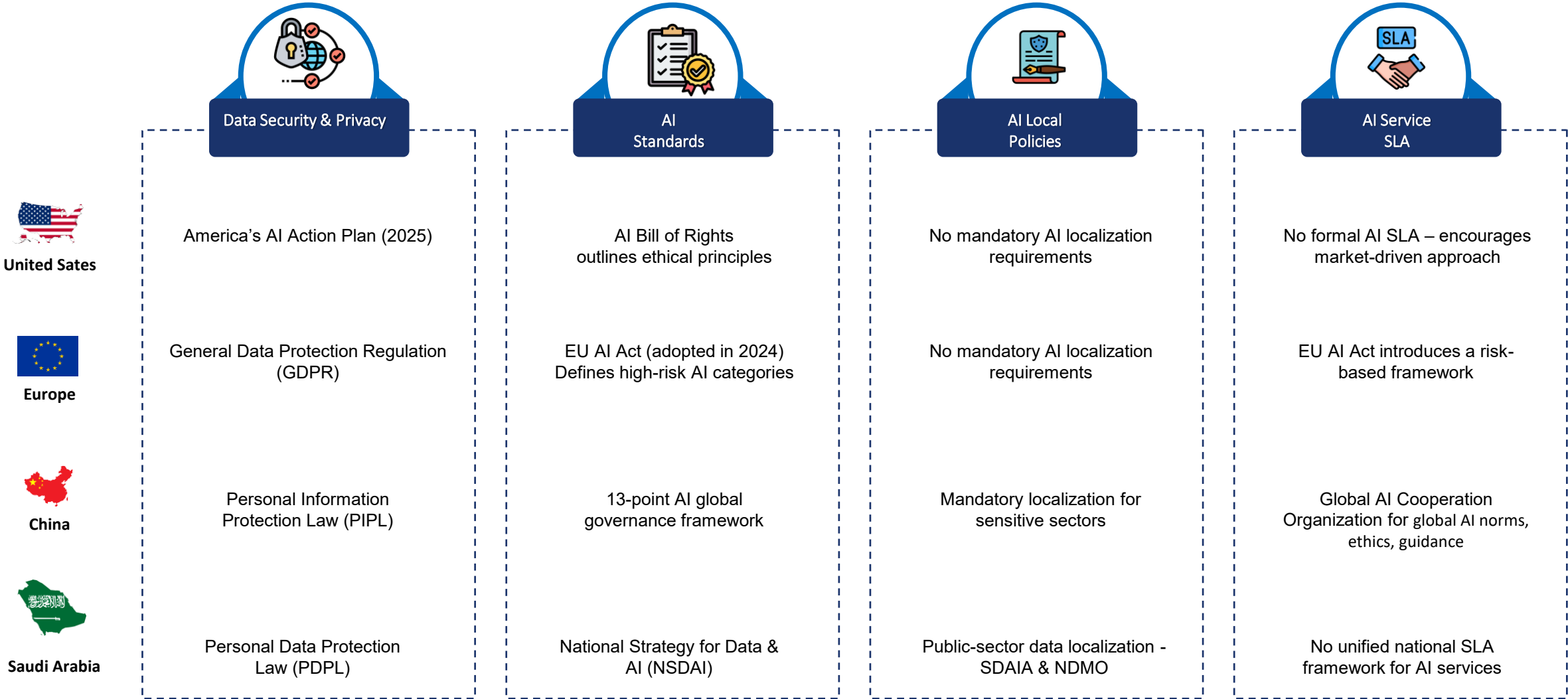
Source: McKinsey

Faster AI uptake in various devices
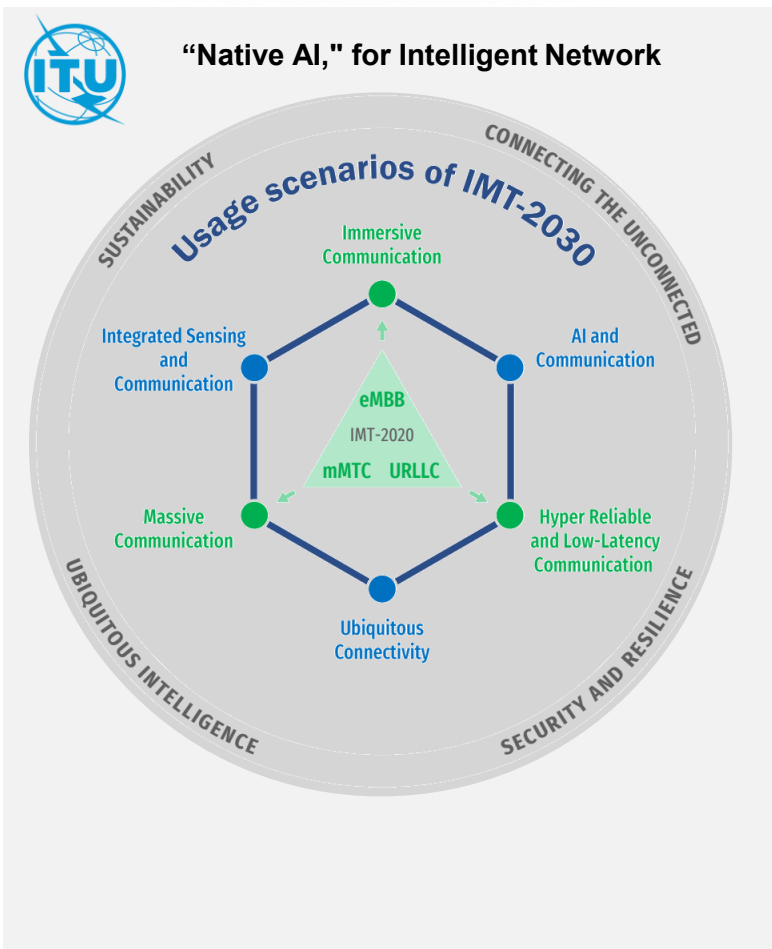AI phones: **36**% | AI laptops: **52%**

Source: IDC

Global AI Policy Landscape: Insights Across 4 Key Regulatory Pillars

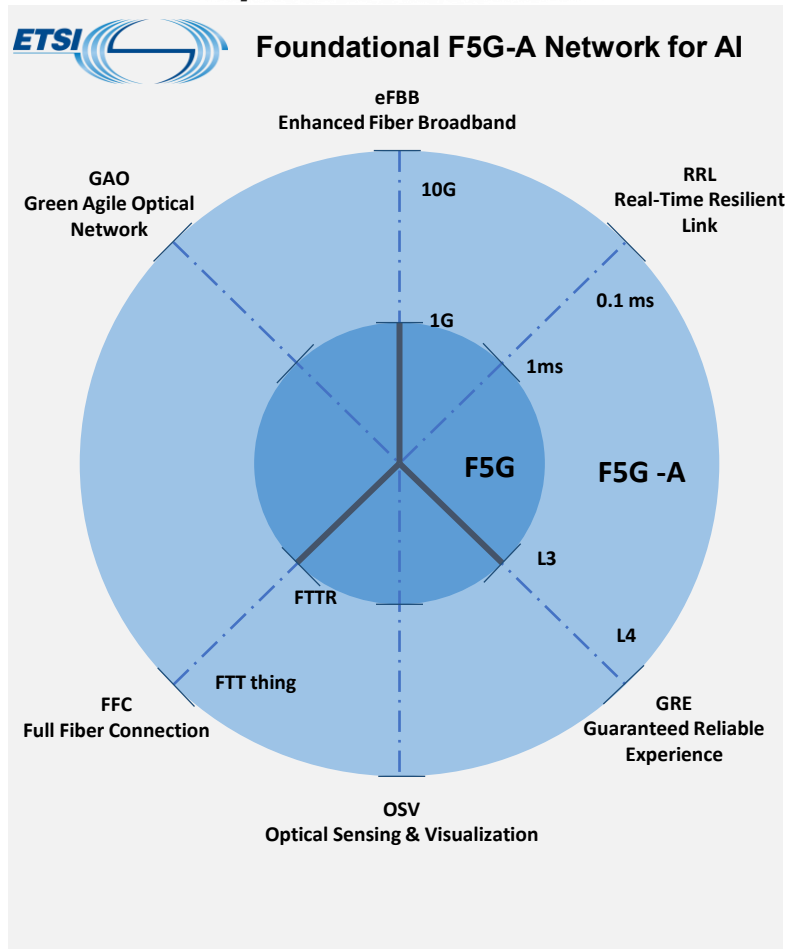|	Data Security & Privacy	AI Standards	AI Local Policies	AI Service SLA
United Sates	America's AI Action Plan (2025)	AI Bill of Rights outlines ethical principles	No mandatory AI localization requirements	No formal AI SLA – encourages market-driven approach
Europe	General Data Protection Regulation (GDPR)	EU AI Act (adopted in 2024) Defines high-risk AI categories	No mandatory AI localization requirements	EU AI Act introduces a risk-based framework
China	Personal Information Protection Law (PIPL)	13-point AI global governance framework	Mandatory localization for sensitive sectors	Global AI Cooperation Organization for global AI norms, ethics, guidance
Saudi Arabia	Personal Data Protection Law (PDPL)	National Strategy for Data & AI (NSDAI)	Public-sector data localization - SDAIA & NDMO	No unified national SLA framework for AI services

Countries have Set High Level AI Polices and Standards – Need to Define Standards and Policies for AI-Centric Networks

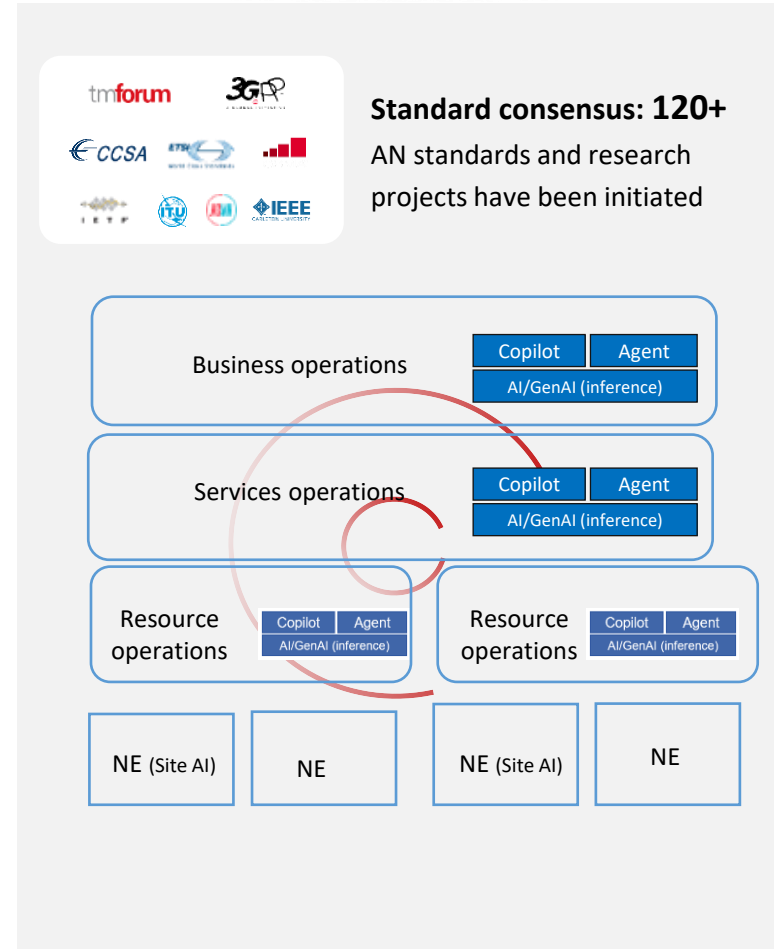# Telecom Standards are Addressing the Changes Required in AI Era

Wireless: IMT-2030 Weaving AI into the Networks

"Native AI," for Intelligent Network

ITU

Usage scenarios of IMT-2030

- SUSTAINABILITY
- CONNECTING THE UNCONNECTED
- UBIQUITOUS INTELLIGENCE
- SECURITY AND RESILIENCE

- Immersive Communication
- Integrated Sensing and Communication
- AI and Communication
- Massive Communication
- Hyper Reliable and Low-Latency Communication
- Ubiquitous Connectivity

eMBB
IMT-2020
mMTC URLLC

Fixed: F5G Advanced The Intelligent Optical Networks

ETSI

Foundational F5G-A Network for AI

- eFBB Enhanced Fiber Broadband
- GAO Green Agile Optical Network
- RRL Real-Time Resilient Link
- 10G
- 1G
- 0.1 ms
- 1ms
- F5G
- F5G -A
- L3
- L4
- FTTR
- FTT thing
- FFC Full Fiber Connection
- GRE Guaranteed Reliable Experience
- OSV Optical Sensing & Visualization

O&M: Autonomous Networks, Bring ADN L4 into Reality

tmforum 3GPP
CCSA ETSI
IETF ITU IEEE

Standard consensus: 120+
AN standards and research projects have been initiated

- Business operations — Copilot | Agent — AI/GenAI (inference)
- Services operations — Copilot | Agent — AI/GenAI (inference)
- Resource operations — Copilot | Agent — AI/GenAI (inference)
- Resource operations — Copilot | Agent — AI/GenAI (inference)
- NE (Site AI)
- NE
- NE (Site AI)
- NE

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Looking Ahead: With AI Chips On-board, New AI Terminals and Application Are Emerging Rapidly

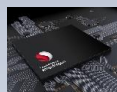## From AI Chipsets

Qualcomm

5G-A Capable. R18

X85
5G RF Modem

Dragonwing
for industries

Snapdragon
for consumer

Native AI Processor

- Wi-Fi & 5G dynamic switching
- Gaming acceleration
- HiFi voice
- HiRe video voice

MEDIATEK

Most Powerful AI SoC

Dimensity 9400
with **NPU 890**

50 Tokens/sec

to AI Terminals

AI Phone   **AI PC**   **AI Home Hub**

AI Wearables

Global AI Phone will reach **30%** in 2025
Global AI PC will reach **80%** in the next 3 years
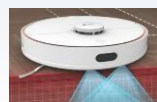
Car + AI   **Cleaner + AI**   **TV + AI**   ...

Everything + AI

to AI Applications

ToC

deepseek
Into the unknown
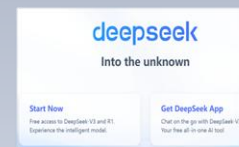
- AI online conversation
- AIGC texts/short videos
- AI smart assistant

ToH

- AI home assistant
- Elderly/children/pets care
- Home security

ToB

AI-POWERED IMMERSIVE TRAINING
VIVERSE AT MWC 2025

- AI smart manufacture
- AI assisted teaching
- AI network O&M
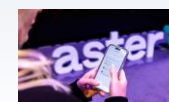
Aster from SKT   **Ixi-O from LG U+**   **Vertex AI Agent builder from Google**   ...

AI Agents are booming in 2025

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Looking Ahead: Public-Private Partnerships for Ethical, Sustainable and Inclusive AI Development

Build a Solid "BASE" for an AI-Centric Mongolia

B — **B**est Infrastructure

A — **A**doption **of** Policies

S — **S**ervices & Use Cases

E — **E**mpowering the Ecosystems

Bridging the resource & expertise gap

Fostering cross-border collaboration

Ensuring multi-stakeholder engagement

Developing ethical guidelines & auditing mechanisms

Promoting equal access to AI technologies

Enhancing AI literacy and skills training

Enhancing AI literacy and skills training

Enhancing AI literacy and skills training

The Role of PPP

Addressing AI Bias & Inequality

Sustainable Solutions

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Thank you.

把数字世界带入每个人、每个家庭、每个组织，构建万物互联的智能世界。

Bring digital to every person, home and organization for a fully connected, intelligent world.

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