

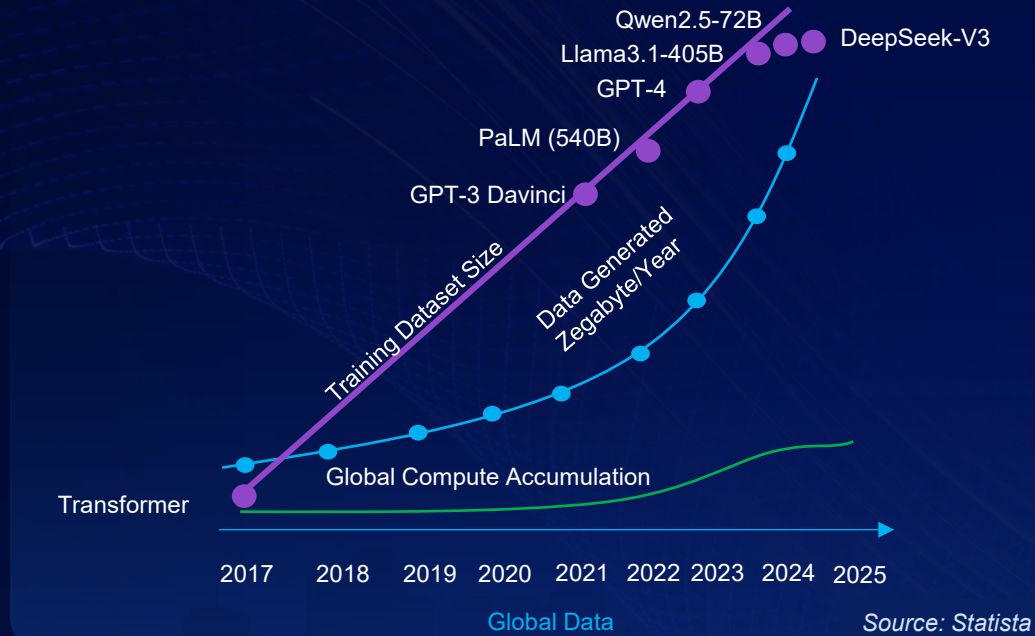
Accelerating Progress Towards SDGs with AI-Powered New Paradigm

Cui Li

Chief Development Officer, ZTE

Is the Future of AI Ultimately Bound by Energy?

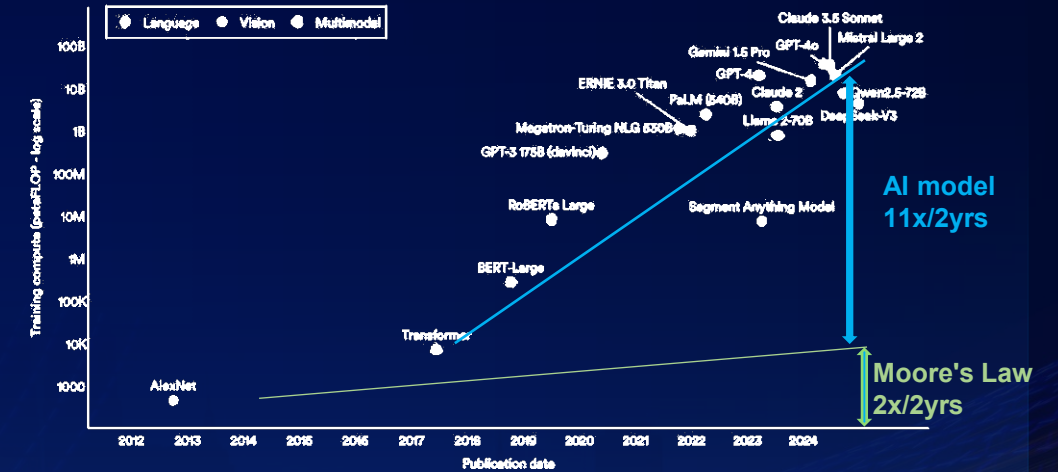
Gap Between Data and Compute



Compute Usage in Training AI Systems

Training compute of notable AI models by domain, 2012–24

Source: Epoch AI, 2025 | Chart: 2025 AI Index report



Energy for AI: Advancing Efficient and Green Development

Inverted Triangle Dilemma

Development of the model and application layers constrained by data size and quality, as well as computing power and performance

Intrinsic Technical Limitations of Large Models
(e.g. hallucination, black box)

ToB

- First deployed in conversational AI, Computer Vision (CV), and image generation scenarios

ToC

- Access to open user behavior and corpora
- Initial monetization capabilities

Billions/trillions of parameters
Single model

Over ten trillion parameters
Multimodality

Algorithm

Model

Platform

Adaptation to Scenarios and Business Needs

Health and Security of Industry Ecosystem

1K/10K Cards → 10K+ Cards

Intelligent Computing Infrastructure

Hardware-Software-Energy-Intelligent Computing Center

Bottleneck in Computing Power for Training and Inference

AI Data

Shortage of High-Quality Data Resources
(e.g., Chinese text, images, videos)

Accelerating Impact Through Efficiency

Enabling Efficient Intelligence Enhancement

Developing Efficient Infrastructure

Other challenges: talent, funding, energy consumption...

Developing Efficient Infrastructure

Advanced Network for Stronger Computing

Die to Die

Decoupling via heterogeneous computing for flexible configuration



All Packaging Forms
2D/2.5D/3D/hybrid packaging

Chip to Chip

Distributed scale-out for efficient utilization



Flexible C2C Interconnect
RF/BB/CPU/GPU/SW

Server to Server

1K-10K cards for flexible adaptation



Comprehensive Intelligent Computing
100-Card/1K-Card/10K-Card/100K-Card Pool

DC to DC

WAN connection between intelligent computing centers



Distributed WAN Scenarios
400G/800G/1.6T

Green, Efficient, and Intelligent IDC



Modular + Prefabricated

Order-To-Delivery
(OTD) Time

40% ↓



Power Density Per Cabinet **8-120 kW**



AC/DC integration

**General-Purpose/
Intelligent Computing**
integration



AI-Enabled Energy Savings **10%+ ↓**

Enabling Efficient Intelligence Enhancement



Convergence and Coexistence



MCP

Capability Enhancement

A2A



Training and Inference Efficiency



Data Quality

Accelerating Impact Through Efficiency

Low-Code Platform: Democratizing AI Development | AI for All



ZTE AIS



Co-Sight



GAIA Benchmark

Open-Source Leaderboard

Open Intelligent Computing Infrastructure: Flexibility and Diversity | Inclusive Computing Power

AI Server



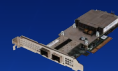
Super Node



Distributed Storage



Self-Developed RoCE NIC



Lossless Switch



AiCube



Diverse Suppliers for Intelligent Computing



Cambricon
寒武纪科技

HYGON

intel



AMD



AI for Energy: Powering the Energy Revolution

Industry: Transformation and Efficiency Improvement

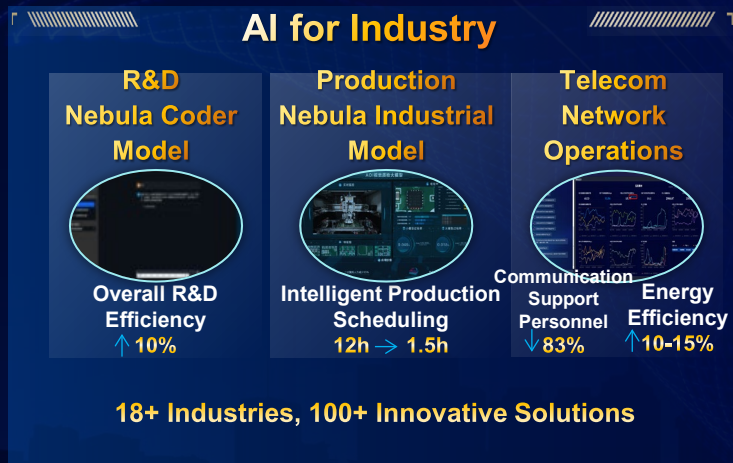
Smart Agriculture
Disaster Warning
Renewable Energy
Environmental Monitoring
Energy Efficiency Optimization
Green Finance
Smart Grid
Risk Control
New Energy Revolution
Circular Economy
Food Supply Chain Optimization
Predictive Maintenance

Home: Family and Community Ecosystem

Health Integration
Resource Sharing
Home Energy Management
Cybersecurity
Community Resource Sharing
Smart Home
Home Security
Community Governance
Neighborhood Mutual Aid Platform
Targeted Policy Information Delivery
Community Collaboration
Household Energy Consumption Optimization

Individual: AI for Good and for All

Data Privacy
Personalized Learning Path
Accessibility Adaptation
Personalized Healthcare
Awareness Enhancement
Skill Improvement
Employment Support
Educational Equity
Green Living
Personal Carbon Footprint Tracking
Medical Resource Decentralization
Lifelong Learning



Openness and Collaboration

Complementary Strengths

Mutual Benefit for Win-Win

Value Creation



To Enable Communication and Trust Everywhere