

2026 Investor Day

24 June 2026

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Handset Business

24 June 2026

Agenda

01

The Trend of
Intelligent Imaging

02

The Trend of Product
Spec

03

Core Platform
Technology

04

Outstanding Intelligent
Manufacturing

Product upgrading and ecosystem reshaping in the AI era

Imaging is an important medium for helping AI understand the world

Imaging

+

AI algorithm

System

Ecosystem



Changes in user interaction entry points

The entry of AI players will reshape the competitive landscape of the industry

The market and industry trends of intelligent imaging

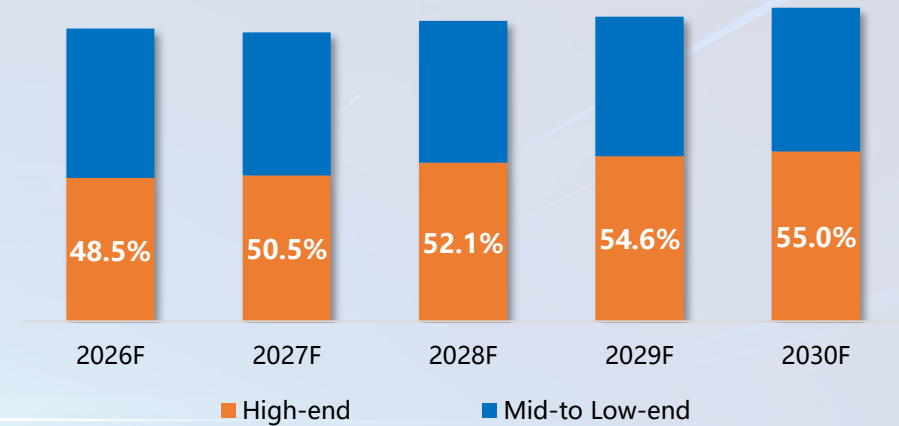
Smartphone imaging: structural differentiation and high-end leadership

- Due to the increase in memory prices, the shipment of smartphone is under temporary pressure, and the industry pattern is showing a stratified trend. The high-end flagship smartphones have continuously increased the market share by relying on the iteration of optical imaging technology, the overall revenue scale of which could maintained positive growth.
 - Periscope: iteration towards a multi-group precision optical path architecture;
 - 1/1.12 inch: the increase in demand for large-image size CMOS adoption;
 - Video shooting: the increase in penetration rate of variable aperture optical solution.

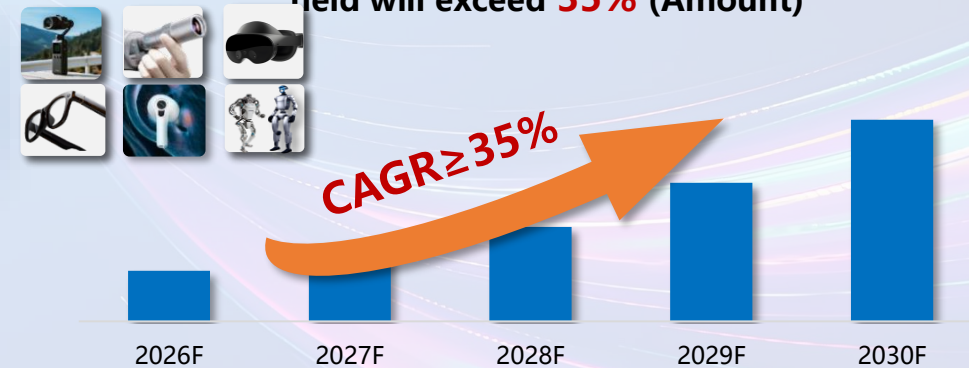
All-category expansion: Imaging in new fields becomes a new engine

- Relying on the accumulation of imaging technology, smartphone makers are accelerating their expansion into new fields such as handheld gimbals, extended cameras and smart glasses in the intelligent imaging sectors.

2026-2030 Handset high-end camera proportion will increase from **48.5%** to **55.0%** (Amount)



2026-2030 CAGR of intelligent imaging in new field will exceed **35%** (Amount)



The trend of intelligent mobile terminals



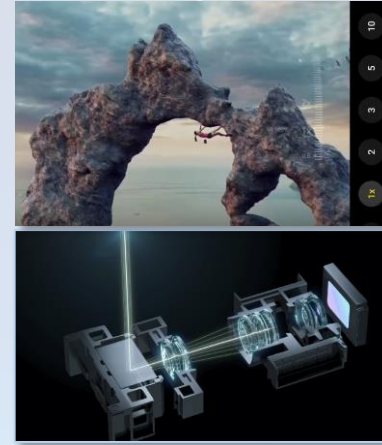
Extreme miniaturization

- Balanced appearance design of cameras for ultra-thin handset
- Battery capacity & component expansion



Professional imaging

- Professional shooting in multiple scenarios
- Video stabilization
- Wide dynamic range cinematic portrait video



Full focal lengths

- Smooth coverage of both portrait and telephoto focal lengths
- High-performance telephoto portrait
- Professional macro photography effect
- Optical system refinement



Highly integration

- The module size is miniaturized
- Optical components are highly integrated

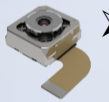
Imaging solutions

Comprehensive product solutions

Extreme miniaturization



➤ Modules/actuators integration
multi-fold periscope modules



➤ Variable aperture + miniaturized
modules with quad cut lens



➤ IV non-gold wire
miniaturized modules

Professional imaging



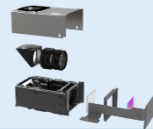
➤ Ultra-high pixel continuous
optical zoom periscope modules



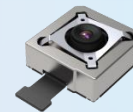
➤ Light-weight extended lens sets
with 200mm focal length



➤ Extended lens sets with ultra-
long focal length (400mm)



➤ Large image size and large-aperture periscope
modules with cemented-prism



➤ Large-Angle Gimbal
OIS Module

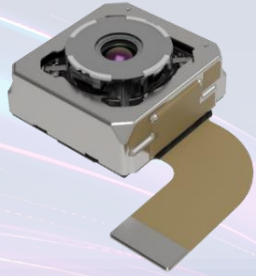
full focal lengths



➤ Integrated
component product

highly integration

The upgrade trends of main camera solutions



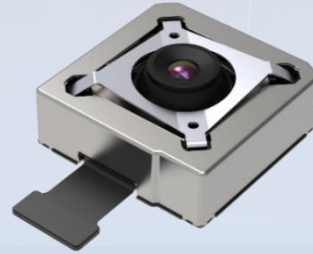
Variable aperture + miniaturized modules with quad cut lens

◆ Advantages

- **Extremely compressed** of XY axis
- High-performance shooting effect with **variable apertures**

◆ Technical Capabilities

- Quad-cut technologies
- Assembly technology for hybrid lens set
- Integration assembly technology for variable aperture lens set



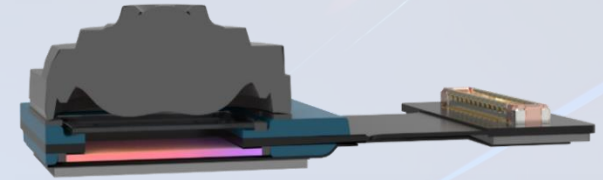
Large-Angle Gimbal OIS Module

◆ Advantages

- **±5° large-angle OIS**, enhances video/capture stability, improves low-light performance, powers professional imaging

◆ Technical Capabilities

- Electromagnetism/ Piezoelectric gimbal stabilization
- Miniaturized gimbal module
- Piezo actuator: industry-leading in ultra-low noise/ power consumption



IV non-gold wire miniaturized modules

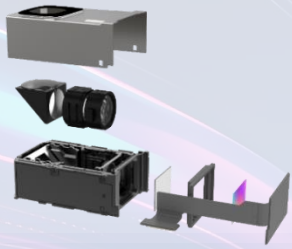
◆ Advantages

- **Non-gold wire bonding**, extreme miniaturization

◆ Technical Capabilities

- Million level mass production experience with self-developed MOB IV miniaturized solution
- High-stability integration molding technology
- Non-gold wire bonding

The upgrade trends of periscope camera solutions



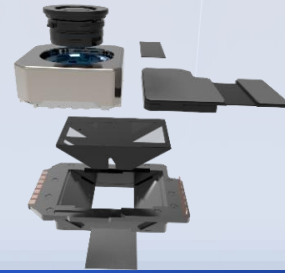
Large image size & large-aperture periscope modules with cemented-prism

◆ Advantages

- cemented prism technology, **large-image size & large-aperture design**, an optimal balance between size and performance. It significantly **boosts light transparency in low-light telephoto scenarios**, meeting **the demand for extreme imaging**

◆ Technical Capabilities

- Lens set + cemented-prism integration solution
- AOA multi-group high-precision assembly



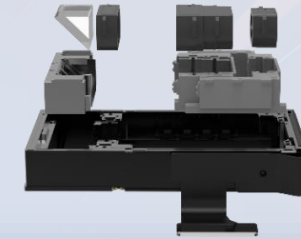
Modules/actuators integration multi-fold periscope modules

◆ Advantages

- **Self-developed actuators-lens sets-prisms-modules integration solution**, multi-fold design can balance the high-time optical zoom and miniaturization

◆ Technical Capabilities

- Modules/ actuators/ lens sets/ prims integration solution
- Self-developed SPIM technology
- Self-developed SEF solution



Ultra-high pixel continuous optical zoom periscope modules

◆ Advantages

- The high-pixel CMOS combined with continuous zoom, **maintains high resolution throughout the full focal length; lower requirements for algorithm and power consumption and occupies less space** vs dual periscope solution

◆ Technical Capabilities

- Self-developed AOA multi-group high-precision assembly technology
- Modules/ actuators/ lens sets/ prims integration solution
- Self-developed long-stroke guide periscope solution
- Optical design capabilities of continuous zoom lens sets

The trends of extended products solution



400mm focal length Extended lens sets with ultra-long focal length

◆ Advantages

- **High-time optical zoom (equivalent to 17.4X)**
- **GM+G solution** offers DSLR-level imaging quality

◆ Technical Capabilities

- Optical design capabilities comparable to those of DSLR
- Calibration capabilities in coordination with the native camera of the smartphone



200mm focal length Light-weight extended lens sets

◆ Advantages

- **Extreme light and handy** vs products with same focal length in the industry (length 96mm, weight 153g)

◆ Technical Capabilities

- Industrial-leading automatic assembly technology
- Self optical inspection



Integrated component product

◆ Advantages

- **Opto-mechatronic integrated solution**, helping customers to iterate the products rapidly, industrial leading

◆ Technical Capabilities

- AA technology for G+P projects
- Optical design of lens sets with multi-group + variable aperture + large image size main camera
- Technology layout on multi-group + continuous zoom + variable aperture

Core Platform Technology – Materials Capability



Advanced R&D on High-End Optical Resins and Optical Glass Materials

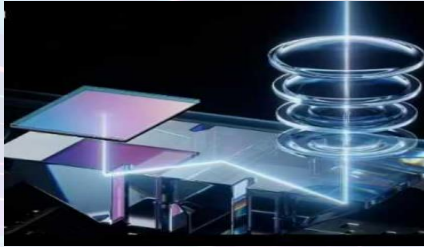
- By overcoming key technical hurdles—including **low internal stress, high refractive index, high glass transition temperature, and low dispersion**—we comprehensively **enhance the imaging resolution performance of premium lenses, while simultaneously improving production yield.**



Strategic Cooperation with Leading Material Suppliers to Secure Quality Delivery

- Leveraging the expanding business demands of lens and communication products, the company has established a strategic partnership with **Chengdu Guangming Optoelectronics Co., Ltd.** for optical glass raw material supply. This collaboration reinforces the existing material supply system and consolidates the supply chain, while simultaneously empowering the successful commercialization of new material R&D outcomes.

Core Platform Technology – Component Capability (Prisms)



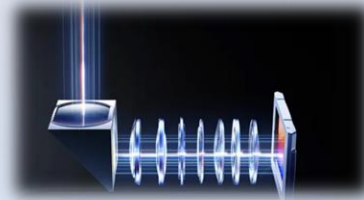
Single/Multi-Slotted
Prism Technology

◆ Advantages

- Multiple folded optical paths achieve the same optical path length while **reducing module volume**, enabling an ultra-low shoulder height design and achieving deco miniaturization.
- Lens-lead design: lens-based OIS replaces prism-based OIS, **allowing for a larger aperture**.

◆ Technical Capabilities

- Full in-house development capabilities covering the entire process from manufacturing to inspection, with mass-production experience exceeding 10 million units



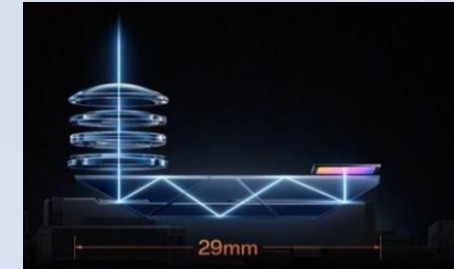
Optical Power
Prism Technology

◆ Advantages

- **Self-developed cemented solution integrating prism and lens optical core**, improving OIS stabilization performance and optical performance, and enhancing design flexibility
- Converging the incident light of the periscope, increasing aperture, and improving **low-light imaging performance**

◆ Technical Capabilities

- Industry-leading cemented product yield rate and capabilities



Five-Fold Cemented
Prism Technology

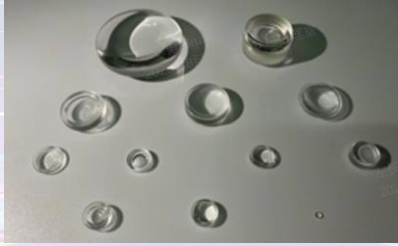
◆ Advantages

- **Industry-first five-fold folded optical path design**, extending optical path length for high resolution
- **Built-in low-reflection, low-transmission aperture stop combined with air-layer aperture stack** for multi-level stray light suppression

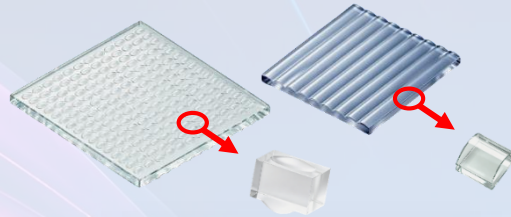
◆ Technical Capabilities

- Industry-leading stray light optimization processes

Core Platform Technology – Component Capability (Molding)



Centering-free Multi-Cavity Molding Technology



Specialized Molding Technology



◆ Technical Advantages

- **Centering-free multi-cavity molding technology:** industry-first one-step molding integrating aspheric surface, platform, outer diameter, and multiple cavities – eliminating outer-diameter centering, reducing processing cost, and improving decentration accuracy;
- **Specialized optical glass material design + specialized molding process technology:** enables precision molding of special-shaped products;
- **Specialized glass material reshaping technology:** reheats and reshapes glass to resolve issues such as poor gas venting;
- **Full-range mold release film technology for all product types:** addresses appearance yield concerns.

High Integration

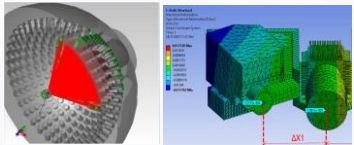
Sub-Micron Precision

System-Level
Miniaturization

Core Platform Technology – Equipment Capability

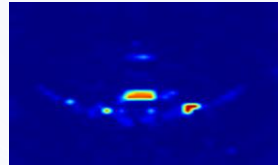
- Turnkey solutions – equipment designed to serve product development

01 Optical imaging and precision mechanical design



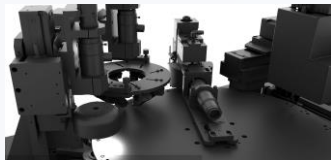
Imaging simulation • multiphysics simulation

02 AI technology platform



Data augmentation • few-shot training • AI-assisted

03 High-speed, high-precision motion control



Micron motion control • multi-axis trajectory planning • high-speed flying inspection

04 Equipment quality control



Shipment FAT • on-site SAT & MBO

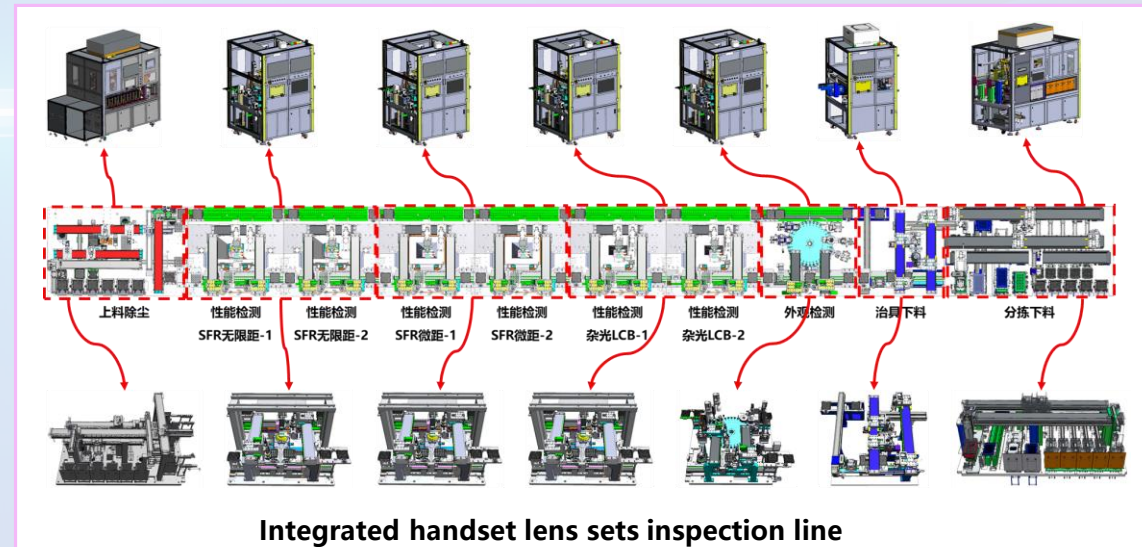
- Deep integration of advanced process & smart manufacturing – boosts quality & efficiency across full handset module production

Data visualization

Modular development

Full-process traceability

Multi-station optimization



Intelligent Manufacturing Drives Excellence, Quality Builds Trust

- Powered by AI and digital twins, our leading smart manufacturing system guarantees premium product quality.



- **Core Capabilities:** AI-driven optimization of optical design, processes, quality control, and equipment management.
- **Key Objectives:** Improve efficiency and yield rate through AI-powered production optimization.



- **Core Capability:** Customized flexible production model tailored for each client.
- **Key Achievements:** Market share of customized products hits 70%, lead time for urgent orders shortened by 40%.



- **Core Capability:** AI traceability system across the full product lifecycle.
- **Key Achievements:** Defect rate reduced to 15%, complaint rate cut by 40%.



Thanks!

Global Leader In Automotive Optics

June 24th, 2026

Vehicles: AI's Gateway to the Physical World

01

Intelligent Driving (Perception Layer)

AI multi-dimensional environmental perception reshapes travel and decision-making

02

Intelligent Cockpit (Interaction Layer)

AI builds HMI to create an immersive cockpit experience

03

AI Lighting (Integrated Layer)

Layer)

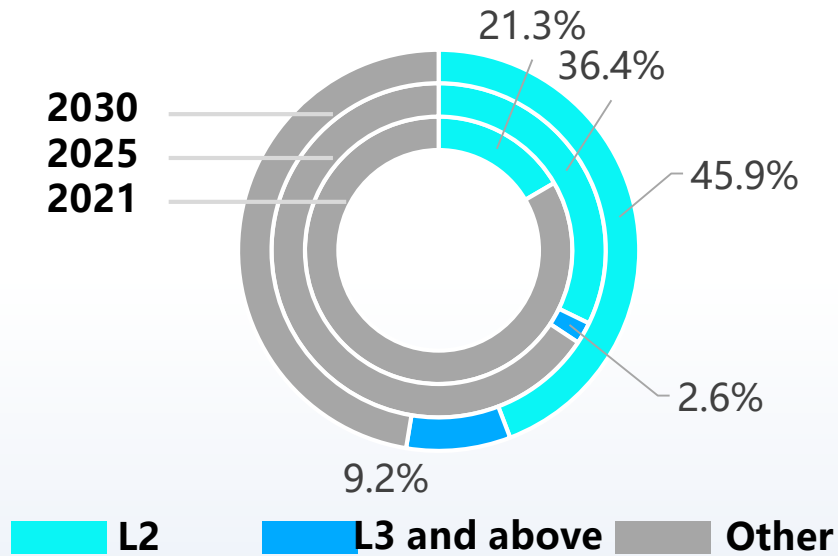
Closing the perception-interaction loop to enhance safety and ride quality



Light-Driven Intelligent Mobility in the AI era

The First Year of L3/L4 Commercialization: Breakthroughs in Computing Power & Upgraded Perception

ADAS/ADS Faster Penetration



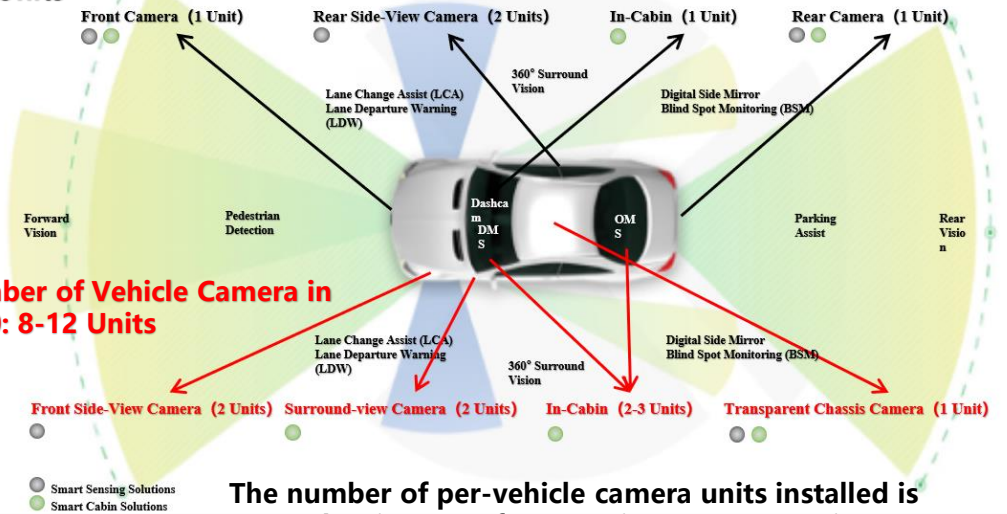
Source: Frost & Sullivan Report

Global L3 Regulatory Frameworks Accelerate Toward Maturity

L4 Robotaxi Commercial Operations in 20+ Cities Globally

Changes in Demand for Perception Hardware

Number of Vehicle Camera in 2025: 3-5 Units



Number of Vehicle Camera in 2030: 8-12 Units

The number of per-vehicle camera units installed is expected to increase from 3-5 in 2025 to 8-12 in 2030.

Vehicle Computing Platforms Leap from Hundreds to Thousands of TOPS

The First Year of L3/L4 Commercialization: Value Surge for Cameras and LiDAR

Forward-view Perception Camera

Side-view/Rear-view Perception Camera

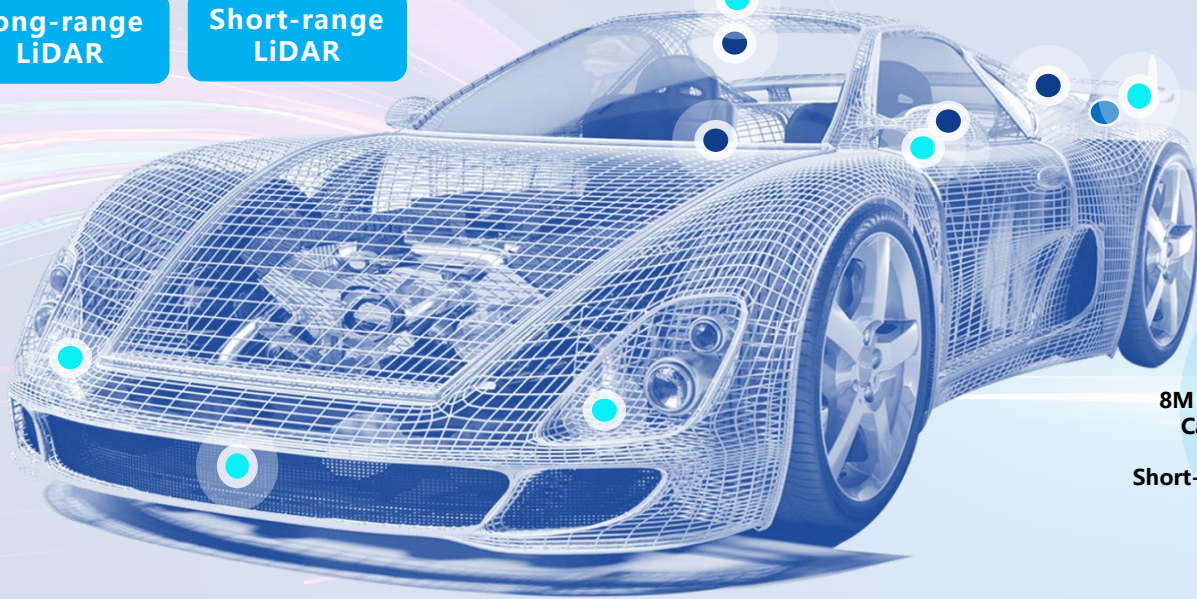
DMS/OMS Camera

Streaming Rear-view Camera

Surround-view Camera

Long-range LiDAR

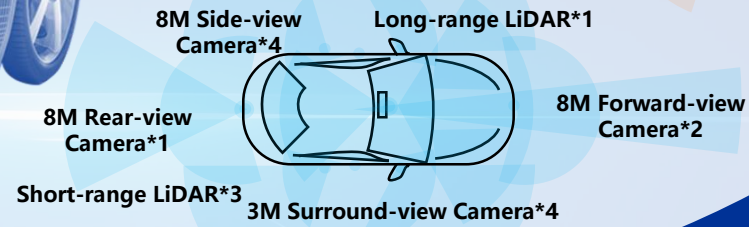
Short-range LiDAR



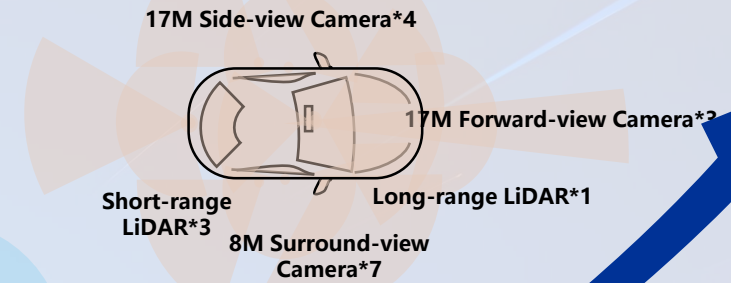
Vehicle LiDAR

Vehicle Camera

L2+/L3 Intelligent Driving Solutions



L4 Intelligent Driving Solution



Vehicle cameras per car rises to 12-15 units
 8MP standard → 17MP+ emerging

Vehicle LiDAR per vehicle: 1 unit → 3-6 units
 Lines: 192/256 standard → 512/896 introduced → 1000+

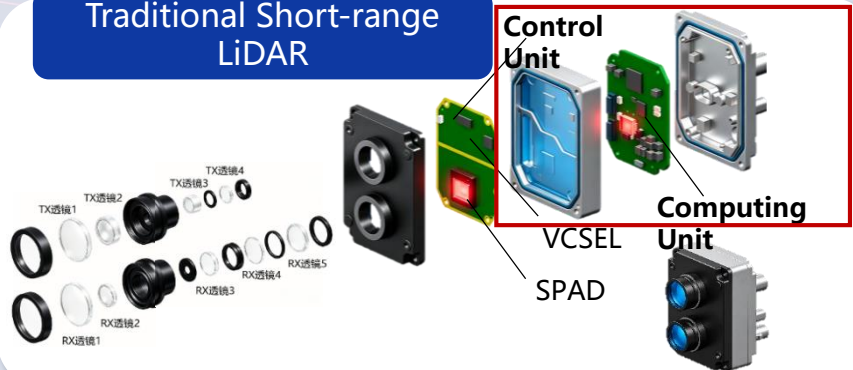
Active Cleaning & Active Heating function become standard

LiDAR: OEM Self-Development Drives LiDAR toward "Satellite Architecture"

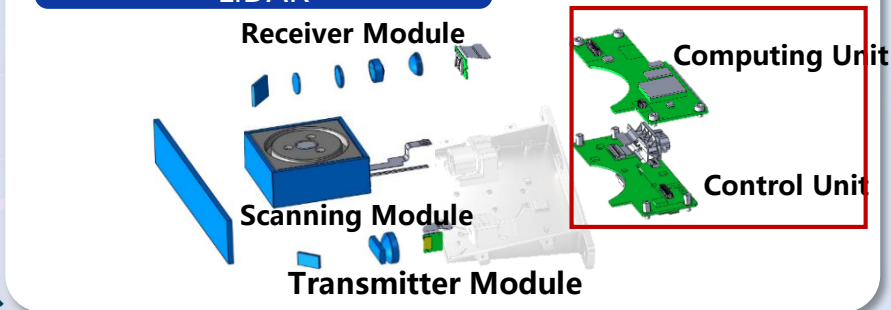
OEM Self-Development Reshapes LiDAR Industry Division

Traditional LiDAR: An integrated sensor that includes main control, and point cloud algorithms

Traditional Short-range LiDAR



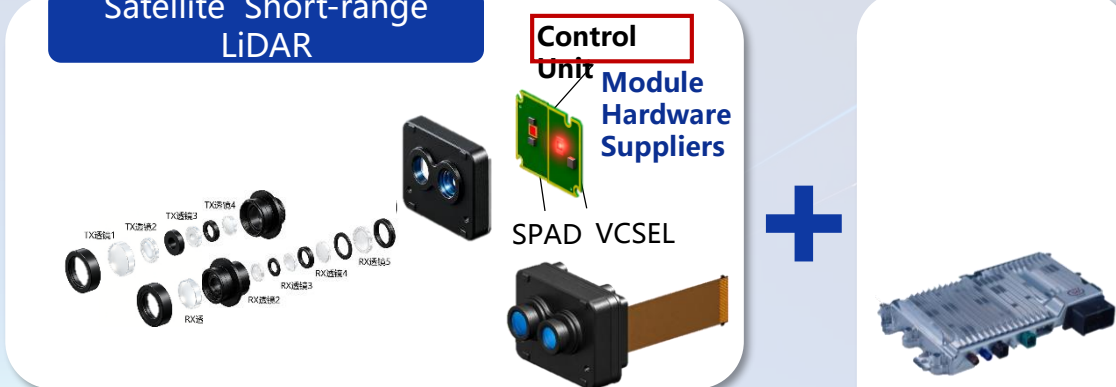
Traditional Long-range LiDAR



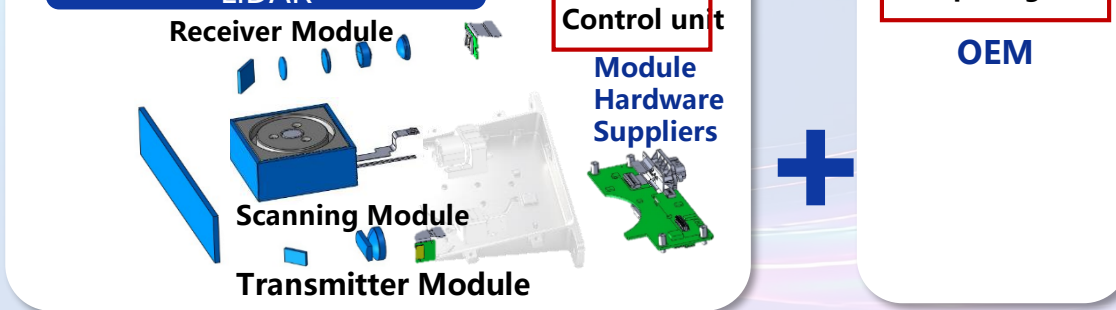
Advanced Intelligent Driving

To reduce latency, advanced intelligent driving is controlled by the vehicle's domain control system, with LiDAR only performing imaging and perception

Satellite Short-range LiDAR

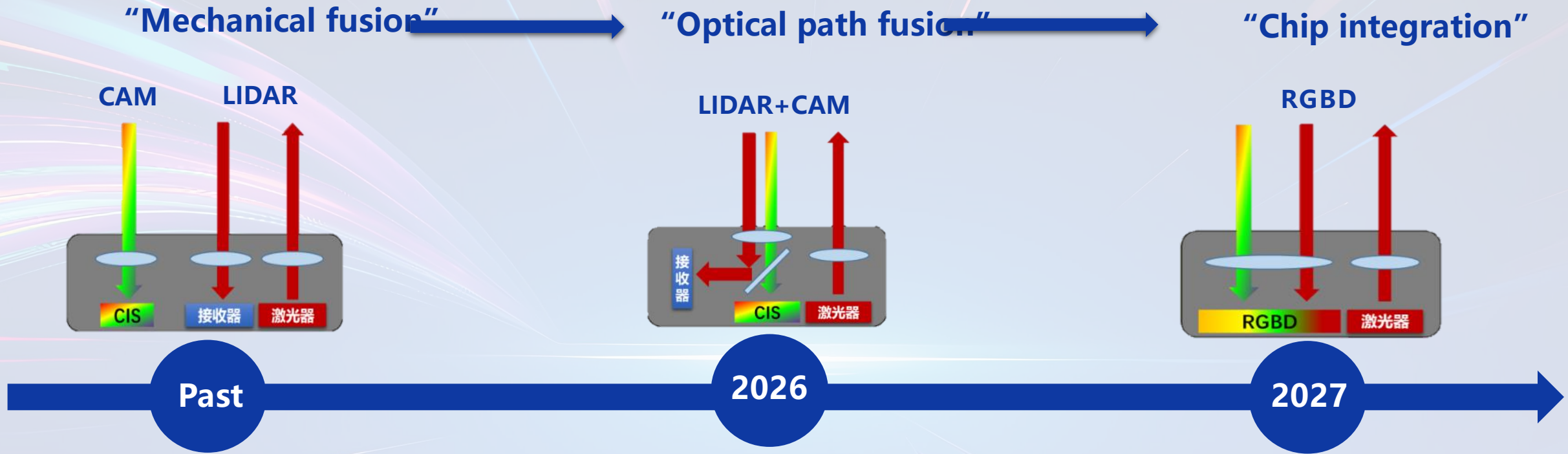


Satellite Long-range LiDAR



As the demands of autonomous driving control continue to rise, the main control and perception algorithms of LiDAR are progressively shifting to onboard domain controllers. This evolution is transforming LiDAR into a pure sensing device, much like a camera module.

LiDAR: Technology Convergence and Modularized Solutions



- LiDAR + Camera: Independent, Calibration-Merged

- LiDAR + Camera: coaxially aligned with shared optics, simplifying extrinsic calibration

- LiDAR + Camera: RGBD integrated on a single chip enables native fusion of point clouds and images

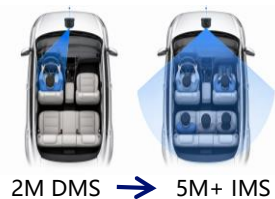
LiDAR point cloud and image fusion are evolving toward chip-level RGBD integration.

Pixel counts rising and system integration is making LiDAR becoming modular.

Cabin Perception: Vision Upgrades and Multimodal Fusion

In-cabin Camera Upgrade: From "Visible" to "Understandable"

1 Pixel Upgrade: Wider Perception Range, Superior Image Quality



Wider FOV
Higher Pixel
Higher Picture Quality



- Bright Light
- Backlit
- Tunnel Transition
- Low-Light

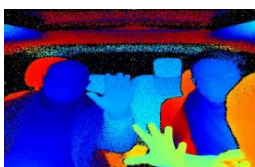
2 Deep perception upgrade: From 2D to 3D, Expanding Functionality



2D



Structured Light



TOF

- AR-HUD (Eye Box Tracking)
- Intelligent Airbag (Body Posture Detection)
- User Interaction (Gesture Recognition)

3 Camera Integration: Under Screen, Under Mirror, Unobtrusive



Integrated with the screen

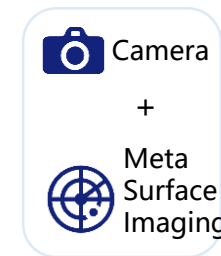
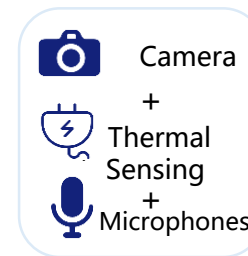
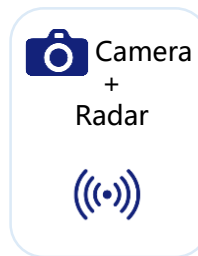


Integrated with the interior rearview mirrors



Integrated with the air conditioning outlet

Multimodal Fusion: From Behavioral Recognition To Life Perception



Multimodal Fusion Scenarios

1 Safety Inspection



- Fatigue Detection
- Child Abandonment Detection
- Disability Testing

Regulation-driven Growth

2 Intrusion Detection



- Illegal Intrusion Detection
- Low Power Wake-up
- Abnormal Behavior Detection

Overseas Market Demand

3 Health Management



- Heart Rate Monitoring
- Blood Pressure Monitoring
- Sentiment Analysis

Health Services

4 Content Recognition



- Autofocus
- Text Recognition
- Palm Print Scan

User Experience Services

AR HUD: Defines New Heights of Cabin Interaction

W-HUD → AR-HUD: Rising Optical Value

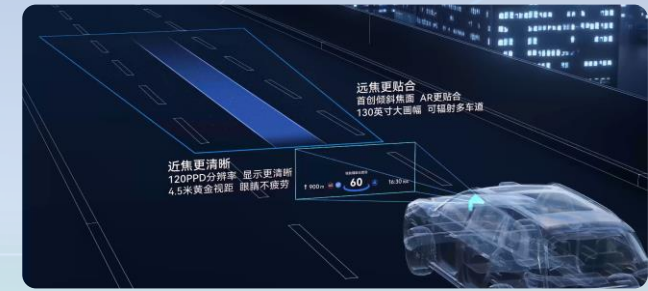
- Traditional W-HUD FOV: 5°~10° VID:

3m~5m



- AR-HUD

FOV: 10°~15° VID:
7m~10m



Optical Component Share:
Optics/Total BOM = 40%~50%



Optical Component Share:
Optics/Total BOM = 60%~70%



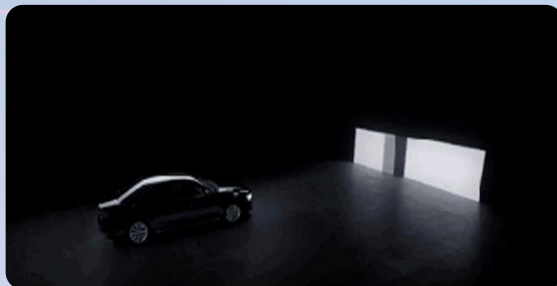
Smart Headlight: Defines New Heights of Interaction in the Mobile Space

As Automotive lighting from traditional to intelligent, the optical share of total BOM continues to grow.

Product value increases by 3~5 times

Traditional Headlight

Optical Component Share:
Optics/Total BOM =



Projection Headlight (Micro LED)

Optical Component Share:
Optics/Total
BOM=40%~50%



Projection Headlight (DLP)

Optical Component Share:
Optics/Total BOM=60%~70%



AI Lighting: All-Scenario Intelligent Optical Platform

Perception

LiDAR

(Long-range LiDAR /Short-range LiDAR)

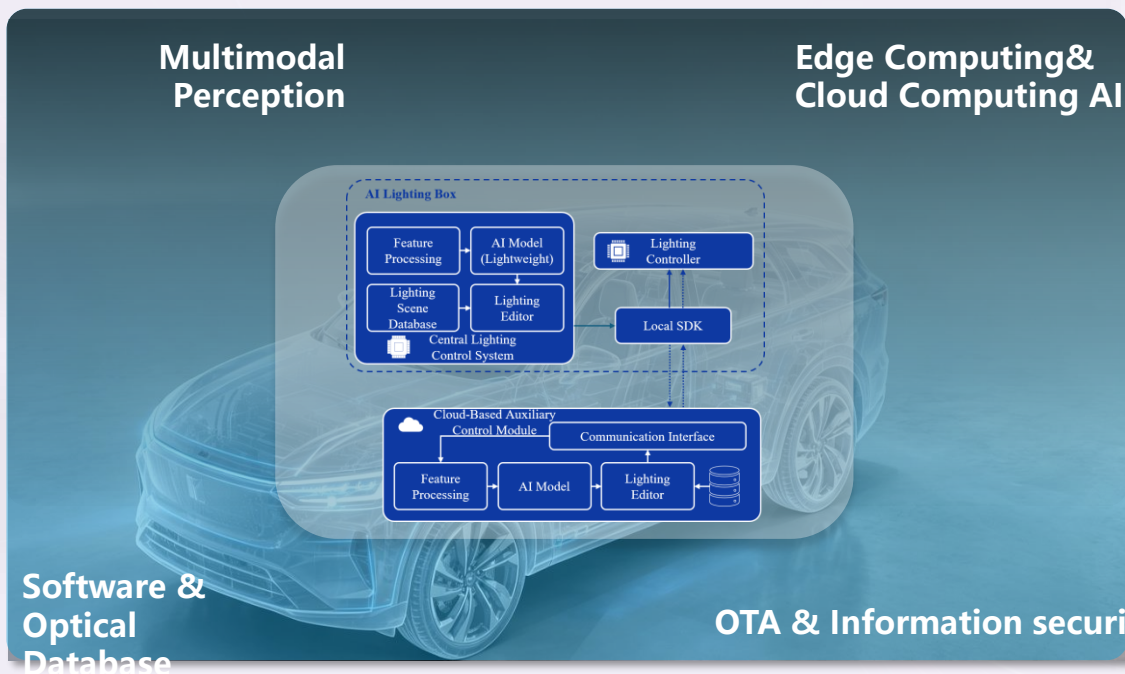


Camera

(Forward-view/Side-view/Surround-view/Rear-view/In-cabin Camera)



Decision



Execution

HUD

(AR-HUD)



Smart Lighting

(DLP headlight module/ Micro LED module)



Cabin Interaction

(Projection)



Full-area Perception · AI Intelligent Control | Driving Safety Upgrades And Cabin Experience Innovation

The background is a dark blue gradient with numerous light streaks in shades of cyan, purple, and magenta. These streaks are mostly curved and radiate from the center, creating a sense of motion and energy. A bright, glowing horizontal line is positioned behind the text, adding to the central focus.

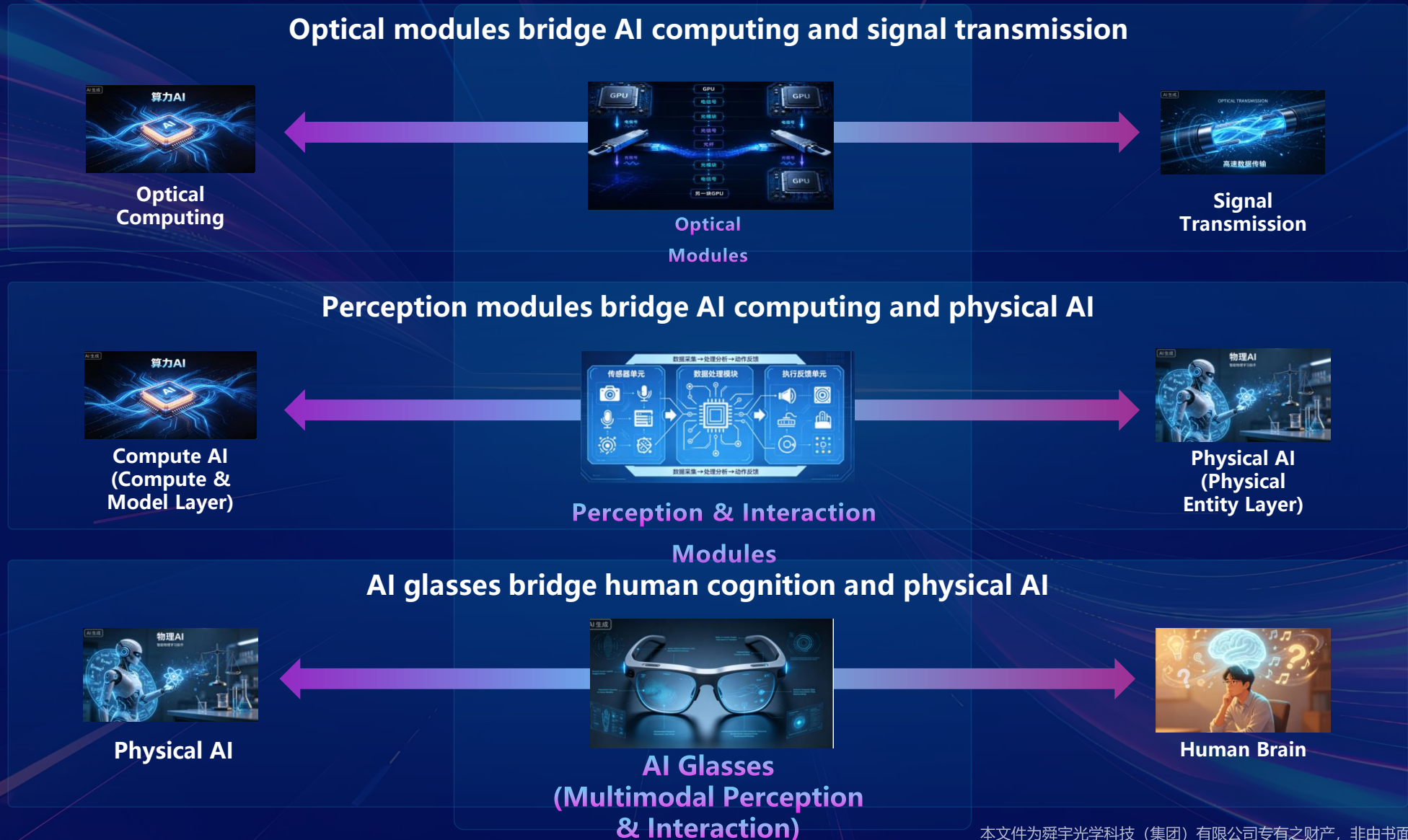
Thanks!

Optics as the Foundation, AI Expanding the Frontier Advancing toward Boundless Opportunities

Unlocking the Boundless Potential of AI + Optics

June 24, 2026

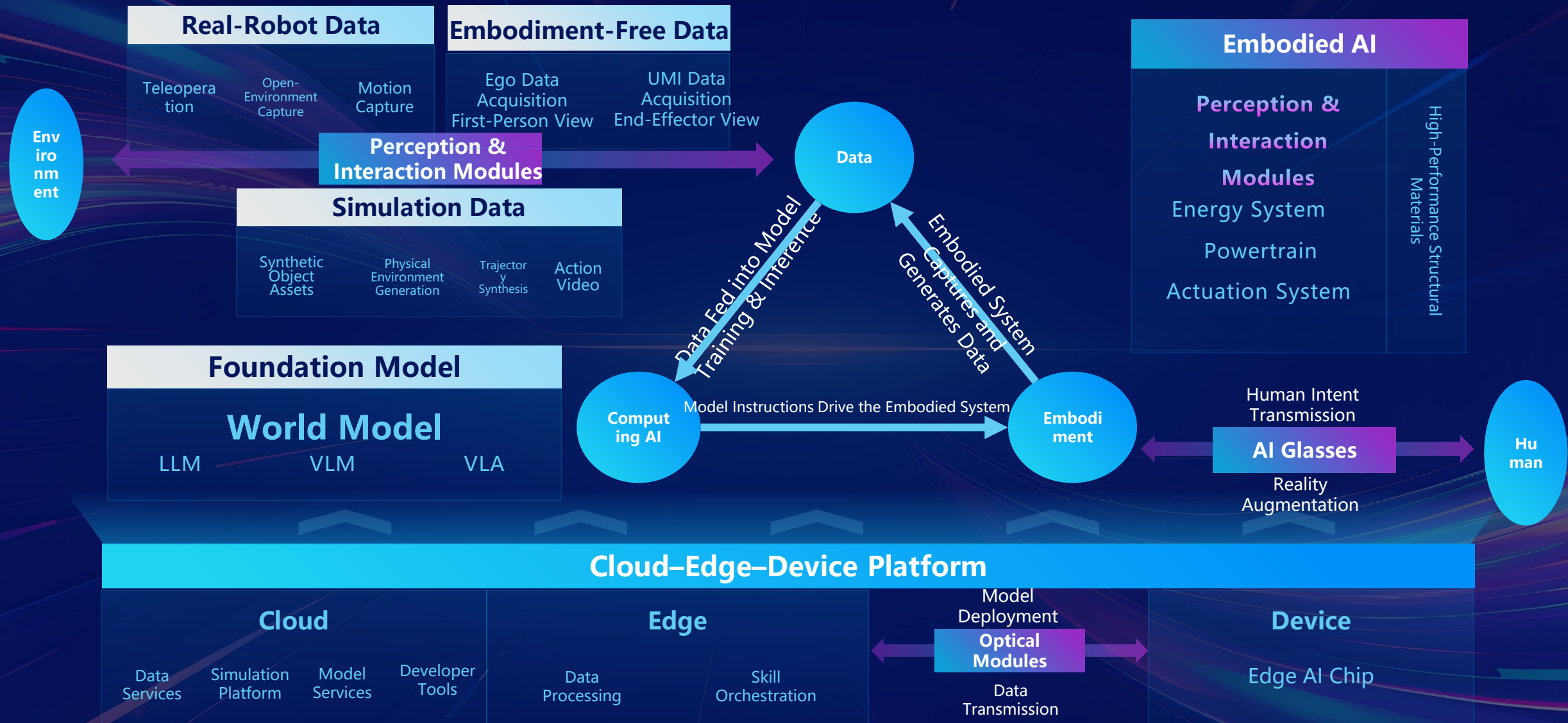
Three Bridges in the AI Era



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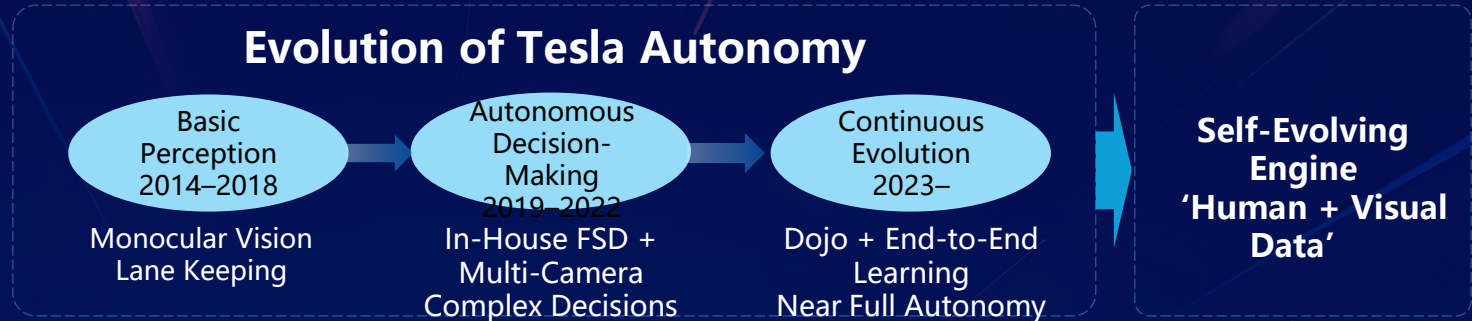
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Embodied AI Technology Framework & Ecosystem Map

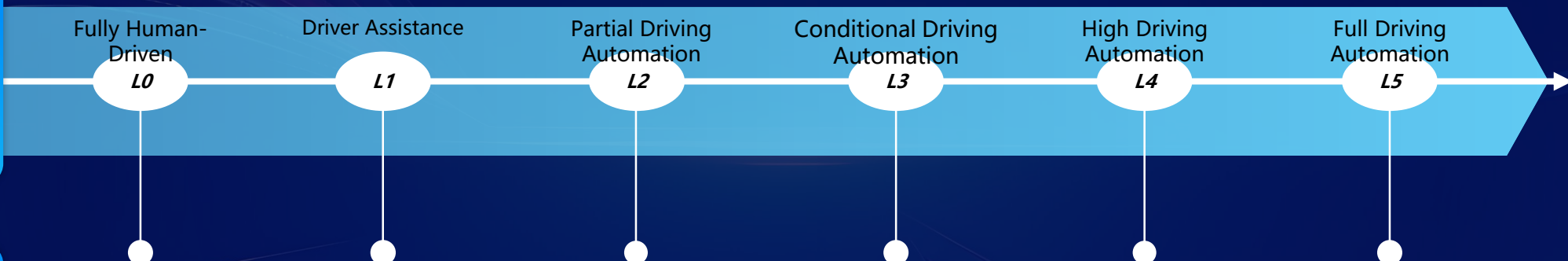


Embodied AI Data Supply: Just 1/20,000 of Demand

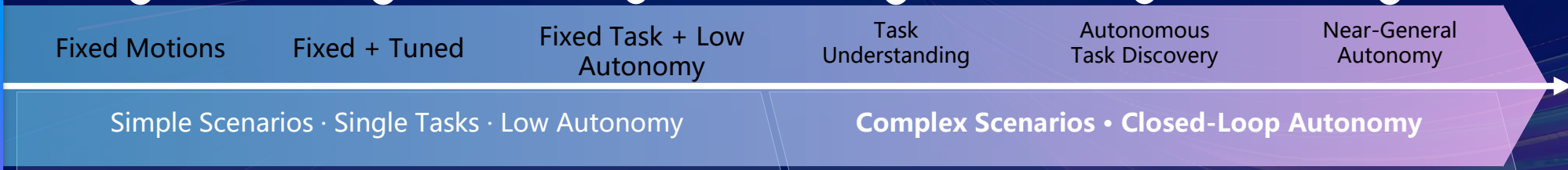
Evolution of Tesla Autonomy



Automotive



Robotics



Simple Scenarios · Single Tasks · Low Autonomy

Complex Scenarios · Closed-Loop Autonomy

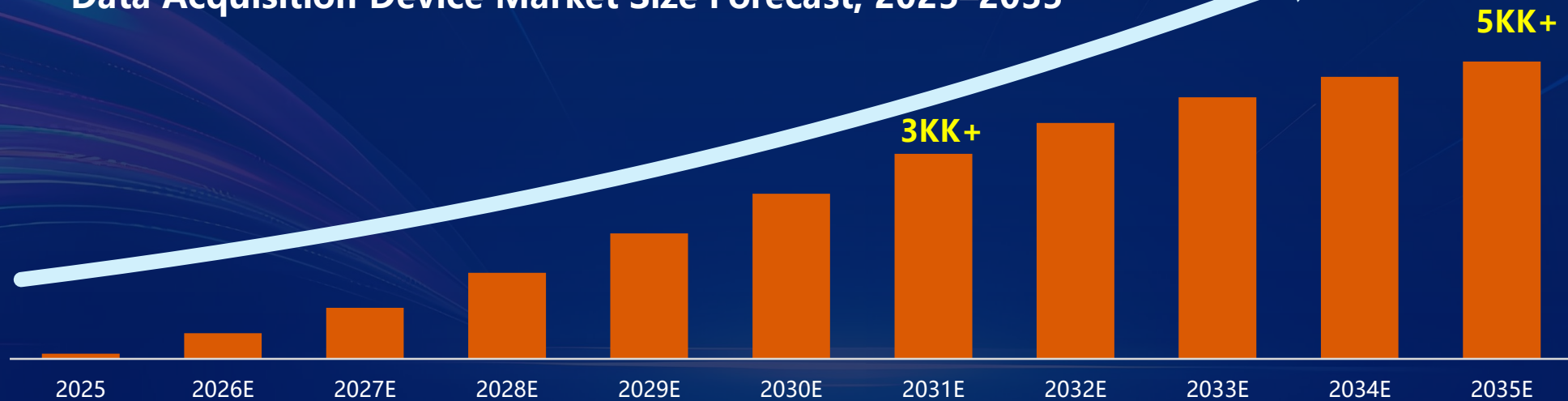


Human-Centric Data Enables Practical Humanoids

Data Acquisition Devices: Growth Opportunities as the Data Bridge to the Physical World

- • Data Acquisition Device Market Size & Technology Trends

Data Acquisition Device Market Size Forecast, 2025–2035



Note: Source: Goldman Sachs Research

Technology Trends in Data Acquisition Devices

2025–2027
Era of Standalone Data Capture Devices



Basic Vision + IMU Modalities Only; No Force/Tactile or Full-Body Motion Data

2028–2031
Rapid Adoption of Integrated UMI + EGO Solutions



Multimodal Coverage Expanded to Tactile Sensing, Force Feedback, Audio and Full-Body Inertial Motion Capture

2032–2035
Mature Stage of Fully Integrated, Multimodal Data Acquisition



Real-Time On-Device World-Model Preprocessing Generates Training-Ready Datasets During Capture

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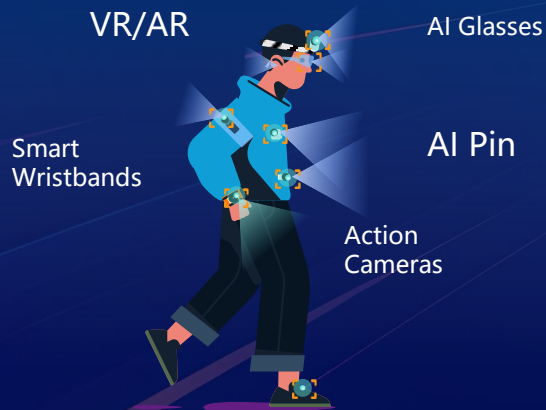
Data Acquisition: Extending Sunny Optical's Robotics & Wearable-Vision Expertise

Robot Vision System Solutions



AI

Integrated XR & Wearables Solutions



EGO

Vertically Integrated Data Acquisition Capabilities

Teleoperated Real-Robot Data Acquisition



VR Headsets



Humanoid Platform /Desktop/Mobile Dual-Arm

Complete-System ODM

Vision System

Wearable Data Acquisition



EGO Device



UMI Device

Vision System

Whole Device Solution

Whole-Device OEM/JDM

Calibration / Synchronization

Multi Sensor Fusion

Depth Computation



Accuracy • Physical Fidelity • Control Reliability
(Essential for Mass Production)

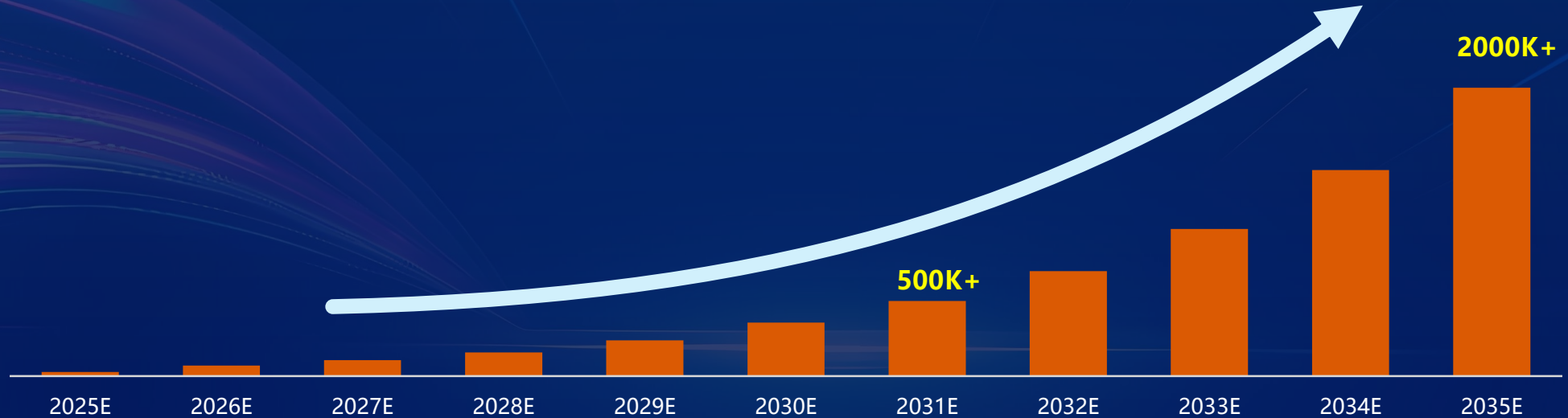


Breadth • Capture Efficiency • Generalization
(For Pretraining & Rapid Iteration)

Humanoid Robots: The Ultimate Form of Physical AI

Humanoid Robot Market Size & Technology Trends

Global Humanoid Robot Market Size Forecast, 2025–2035



Note: Sources: Goldman Sachs Research and Yole

Three Stages of Humanoid Robot Commercialization

> Stage I (2024–2027): Basic



Industrial: Repetitive Tasks

> Stage II (2027–2030): Intermediate



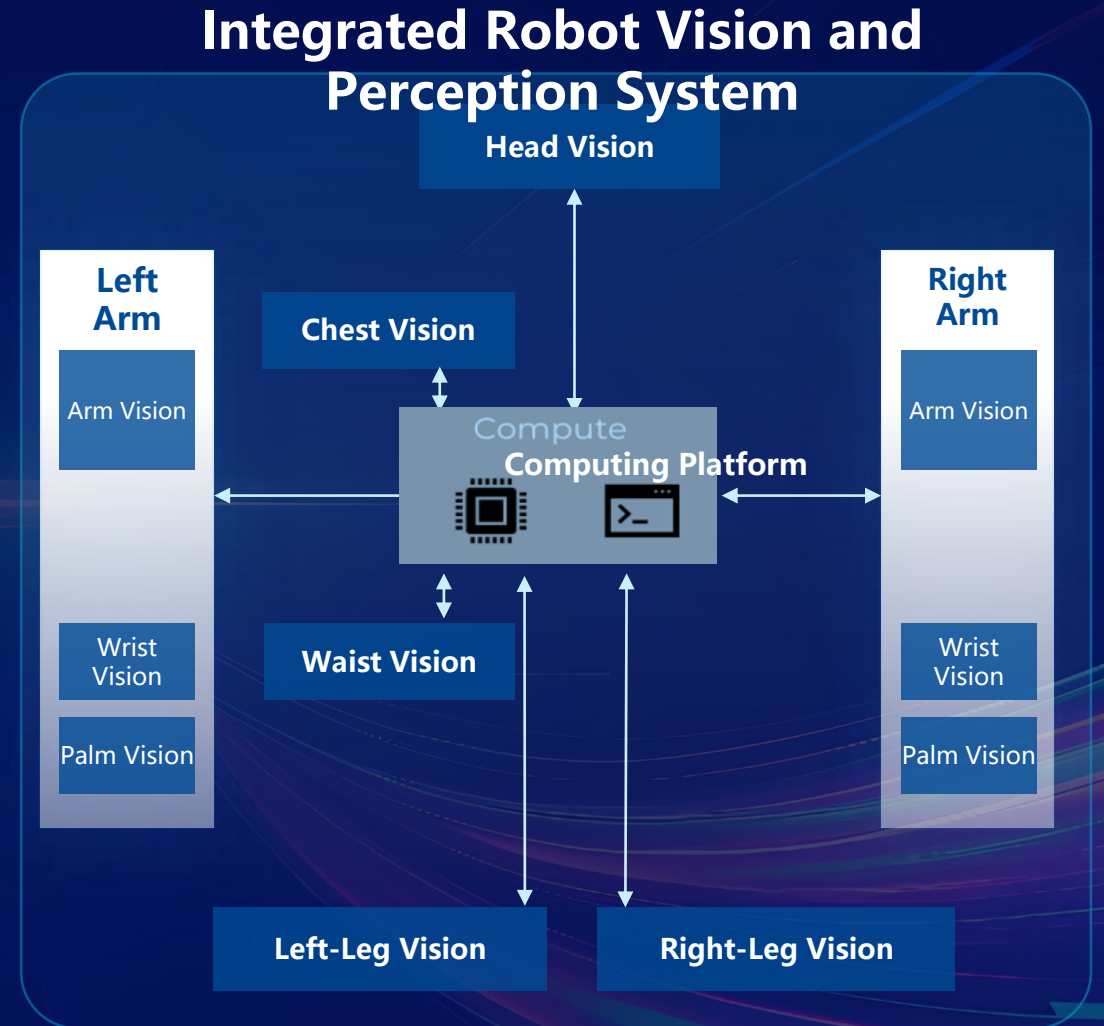
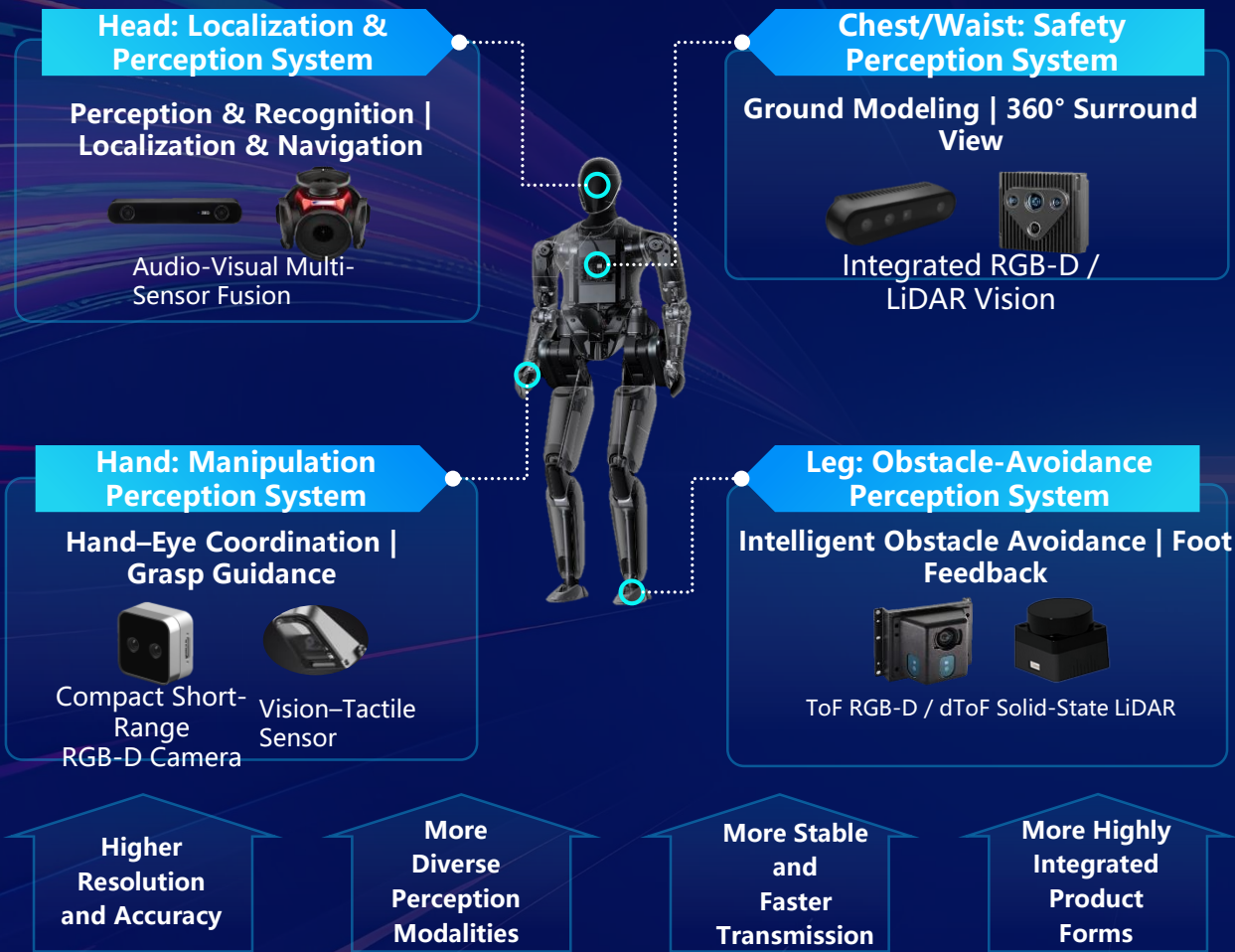
Commercial: Retail & Service

> Stage III (2030 onward): Advanced



Home: Flexible Services

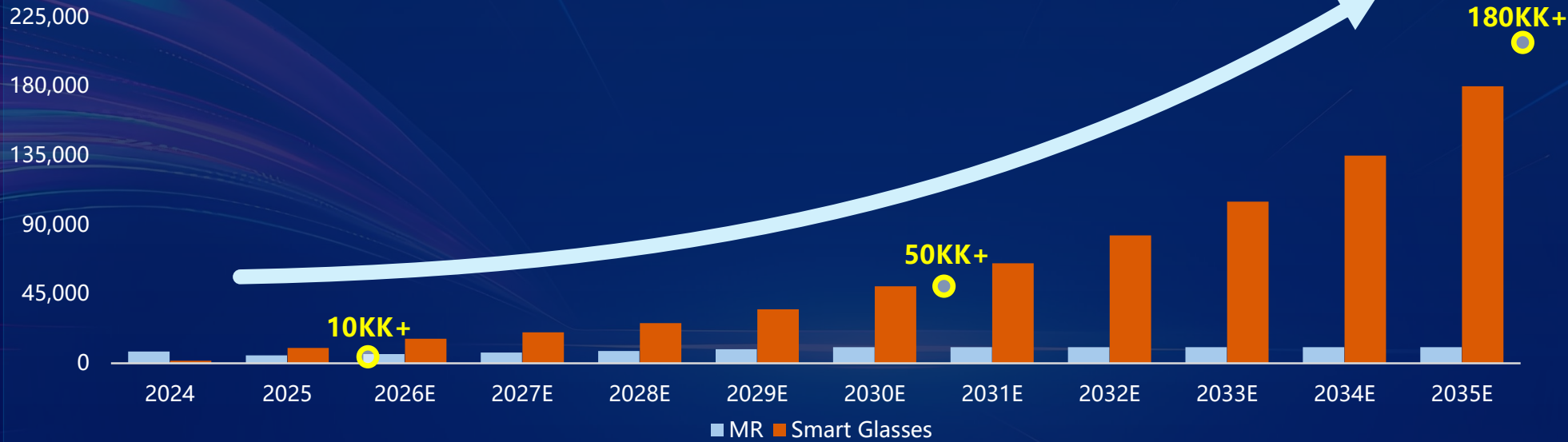
Humanoid Robots: Sunny Optical's Full-Stack Presence from Core Optics to Integrated Visual Perception Solutions



AI Glasses: A RMB 100 Billion Market Scaling Rapidly and Ushering in a New Consumer Electronics Cycle

XR Market Size & Technology Trends

MR Headset and Smart Glasses Market Outlook



Note: Sources: IDC and Wellsenn XR; chart reconstructed from source data.



Note: SG is the abbreviation for Smart Glasses

AI Glasses: Sunny Optical Builds Component Moats through Full-Stack Vertical Integration

End-to-End Vertical Integration: Core Optical Components → Diversified Optical Modules/Engines → Integrated Hardware-Software Systems

High-Performance Lightweight Prism

Overcoming Material Constraints to Enable Lightweight Prism Solutions

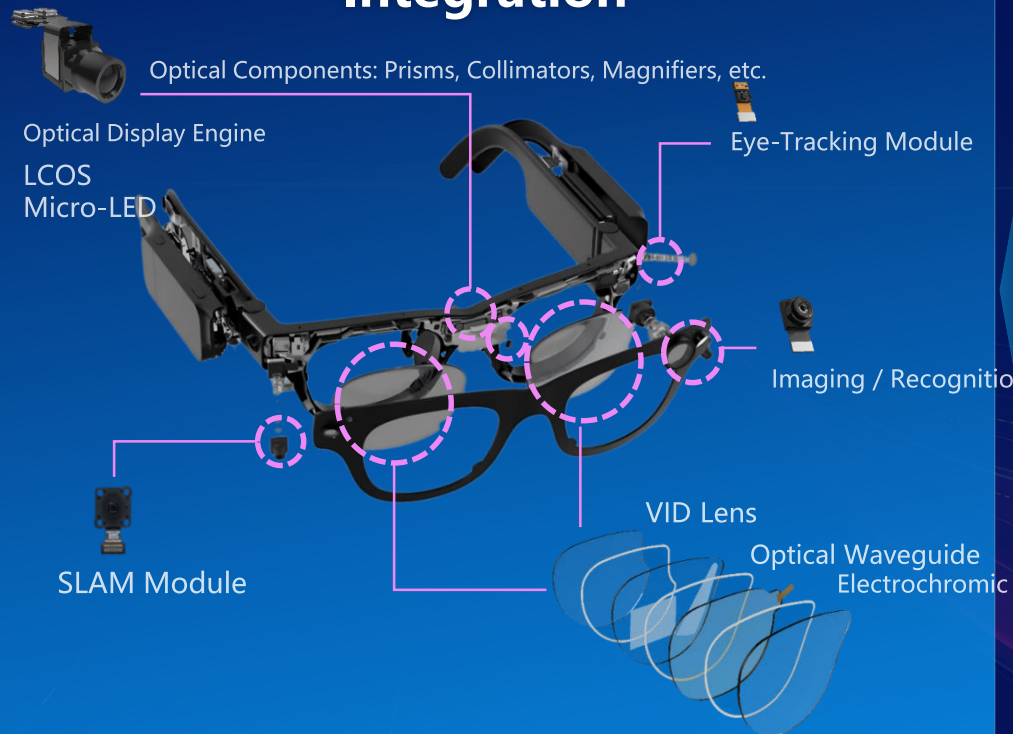


High-Precision MicroLED Packaging

Leading MOC Packaging
Core Micro-LED Packaging



Full-Stack Optics + Vertical Integration



Ultra-Thin VID Lens

Industry's Thinnest Mass-Produced VID Lens



Medium thickness $\leq 0.8\text{mm}$

Extreme Miniaturization

Molding Technology + Optimized Design + Scalable High-Precision Assembly



Sunny Optical's Diversified AI Hardware Portfolio

AI + Optics

AI + Optics Intelligent Imaging

Video
Recording Tool



Passive
Data
Capture
and
Recording

Creative Partner



Proactive AI Value
Auto Capture &
Editing

AI + Optics Microscopic Vision Agents

Observation
Tool



Visual Inspection ·
Manual Operation
· Expert Judgment

Analytics Tool



Smart Imaging & Analysis
Real-Time Alerts

AI + Optics Industrial Vision

Image
Acquisition
Device



Split Architecture
Passive Image Transmission

Integrated
Edge AI Terminal



Integrated On-Device AI
Defect Inspection +
Measurement
Barcode Recognition +
Robot Guidance

Integrated Vertical Integration

Optical Components → Lenses → Modules
→ Main Control → Structures → Complete
Systems



Hardware-Software Integration

3D Vision

Secure Data

On-Device AI

Sensor Fusion

Optics + Intelligent Manufacturing

Mold
Platform

Equipment
Platform

Outlook: Capturing AI-Era Growth

Core Growth Curves for the Next Decade



AI Glasses

5-Year High Growth

Near-Mid Term
RMB 1T Market
Optics-Led



Data Acquisition Devices

RMB 100B Opportunity

10M+ Hour Data Gap
Embodied AI Infrastructure
RMB 100B Market

N

Extension of Optics + AI



Intelligent Imaging
Microscopy Industrial Vision

**AI + Optics Empower
Traditional Industries
Unlocking Vast Possibilities
Multiple RMB 100B Markets**

Ideal AI Form Factor →



Embodied AI

**High Growth over the
Next Decade**

Mid- to Long-Term Growth Driver

2M+ Units Shipped by 2035

RMB 1T Market

Vision-Intensive

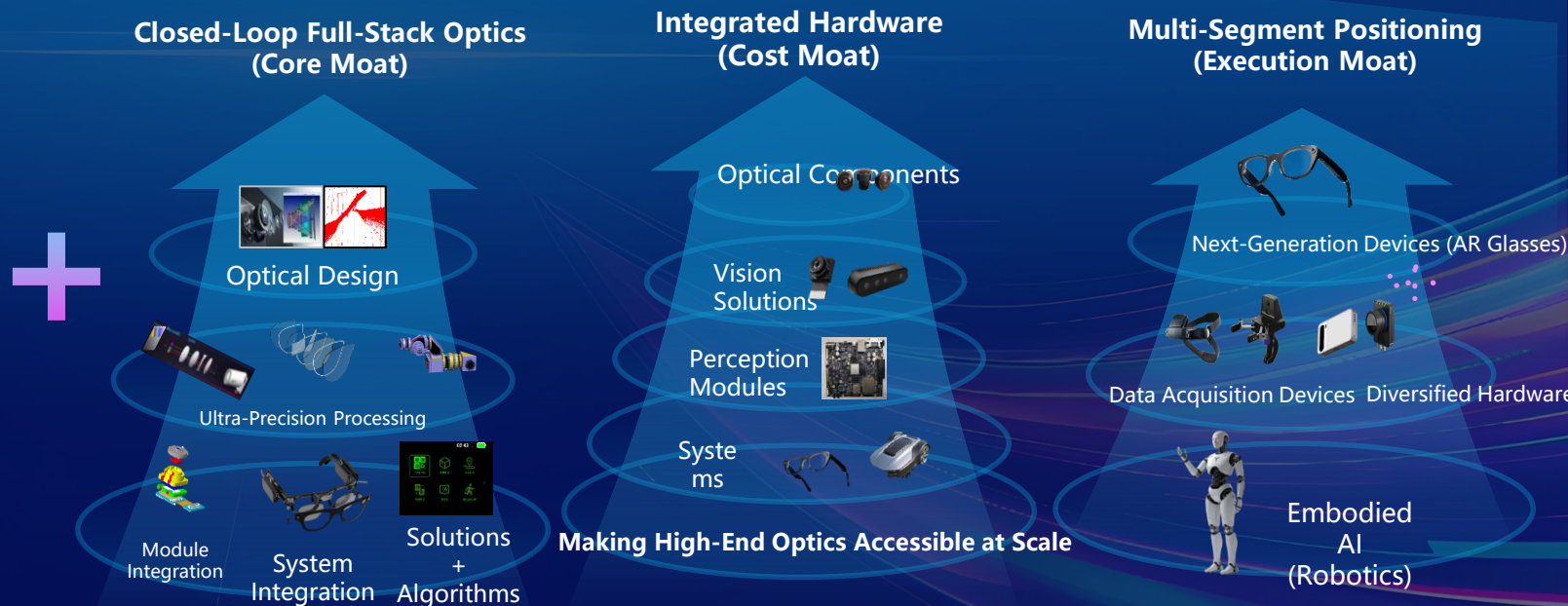
Optics Is the Gateway to Embodied AI Decision

The AI Era

Large-Scale Investment in Hardware R&D and Integrated Delivery Builds Sunny Optical's Enduring Moat

AI Enablement
Closes the Software and
Algorithm Gap

Hardware Strengths
Optics + Hardware
Integration + Mass
Production



Optics as the Foundation, AI Expanding the Frontier Advancing toward Boundless Opportunities

Embrace the era of AI computing power with core optical capabilities

New Strategy, New Track, New Future

Speaker: Gu Bo (CTO, CAE Fellow)

Date: 2026.06.24



Strategy Review

Why “Optics + AI”

PART

1



01 / strategic direction confirmed in last year
Extended from “Imaging Sensing” to “Optics + AI”

02 / Core logic
The exploded demand for AI computing power
optics is the core entry point for intelligent terminals to perceive
the physical world

03 / Mission reaffirmed
"The extension of human eyes in time and space"
- enabling machines to see visible and invisible information

The exploded demand for AI computing power

AI computing takes place on **AI servers** in data centers (GPU clusters)

The communication network within the data center has become a new bottleneck, which is specifically manifested in three levels

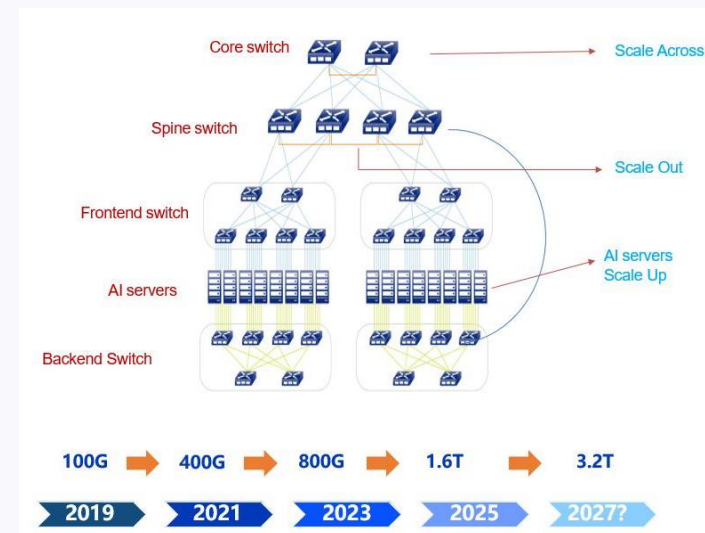
Level	Range	Typical distance	The increased demand for bandwidth	Bottleneck nature
Scale Up	Within the same cabinet Between GPU	< 1m	100G → 1.6T / 3.2T	The most severe issue, the original PCIe copper bus bandwidth/distance is insufficient
Scale Out	Within the different cabinet (Same data center)	2~100m	400G / 800G	Secondly, traditional Ethernet switches and copper cables need to be upgraded
Scale Across	Between different data centers	> 10km	relatively small	At present, it is not the main bottleneck and the TCP/IP protocol can still be used

1

2

3

When the computing power of a single GPU is insufficient, dozens to tens of thousands of GPUs need to work together, which generates a huge demand for data exchange among GPUs



◆ The internal communication network structure of the data center (two schematic cabinets) and the demand for optical interconnection



Core logic

Optics is the core entry point for intelligent terminals to perceive the physical world



Smart wearables

AI Glasses
Next-generation computing platform



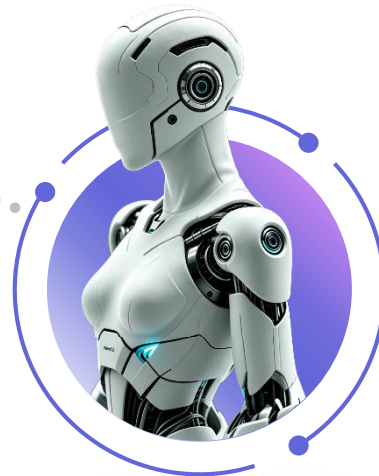
Intelligent transportation

eVTOL
The revolution of urban air traffic



Intelligent manufacturing

Industrial robot
A new paradigm of precision manufacturing



Smart home

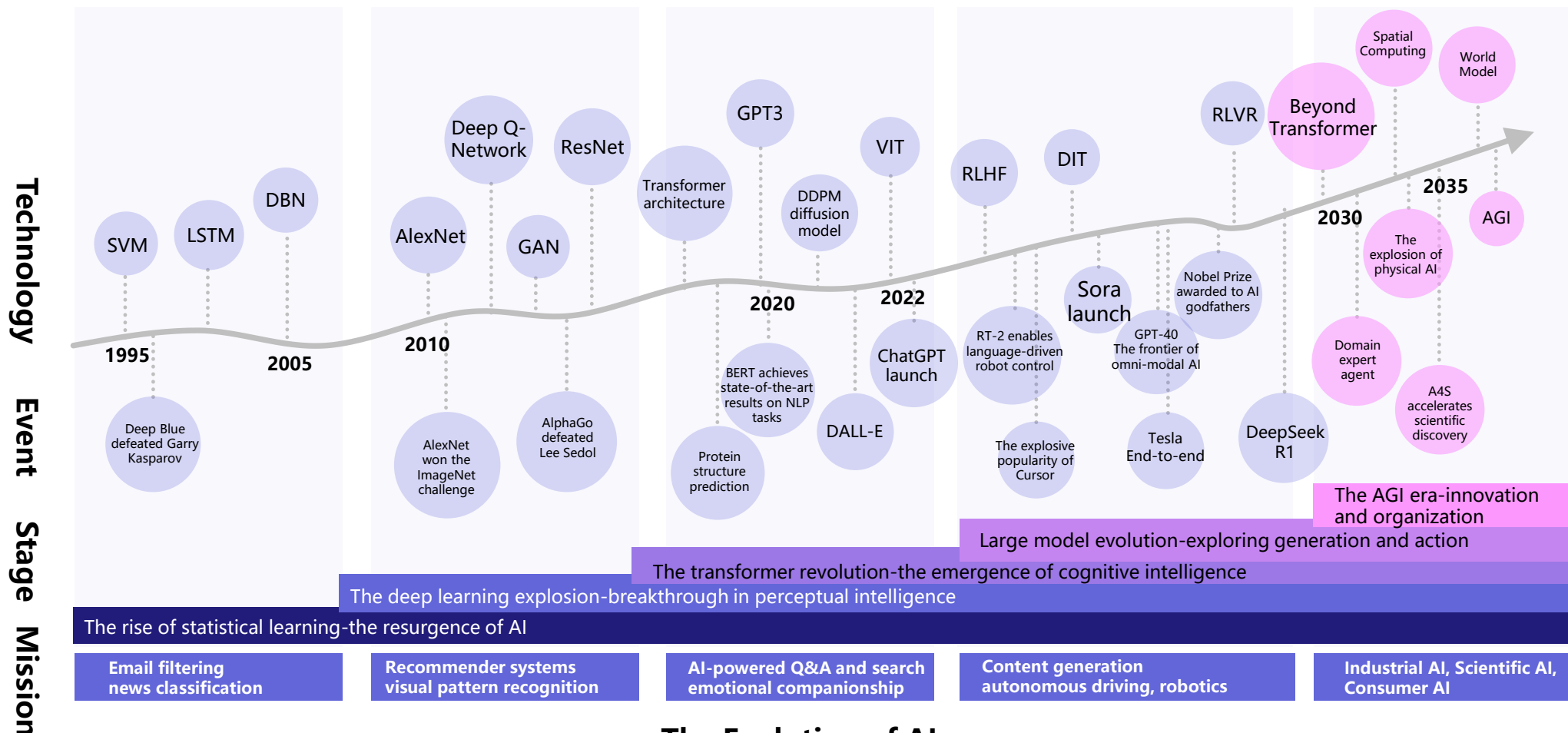
Companion robot
From sweeping the floor to doing all-round housework



Mission reaffirmed

The inevitable path to AGI is "towards the physical world"

Over the past decade, the prosperity of AI has been built on the vast amount of text and image data in the digital world. In the next decade, AI will transcend virtual boundaries and interact deeply with the real physical environment in physical forms such as "physical AI".



The Evolution of AI

* Huawei - "Intelligent World 2035"

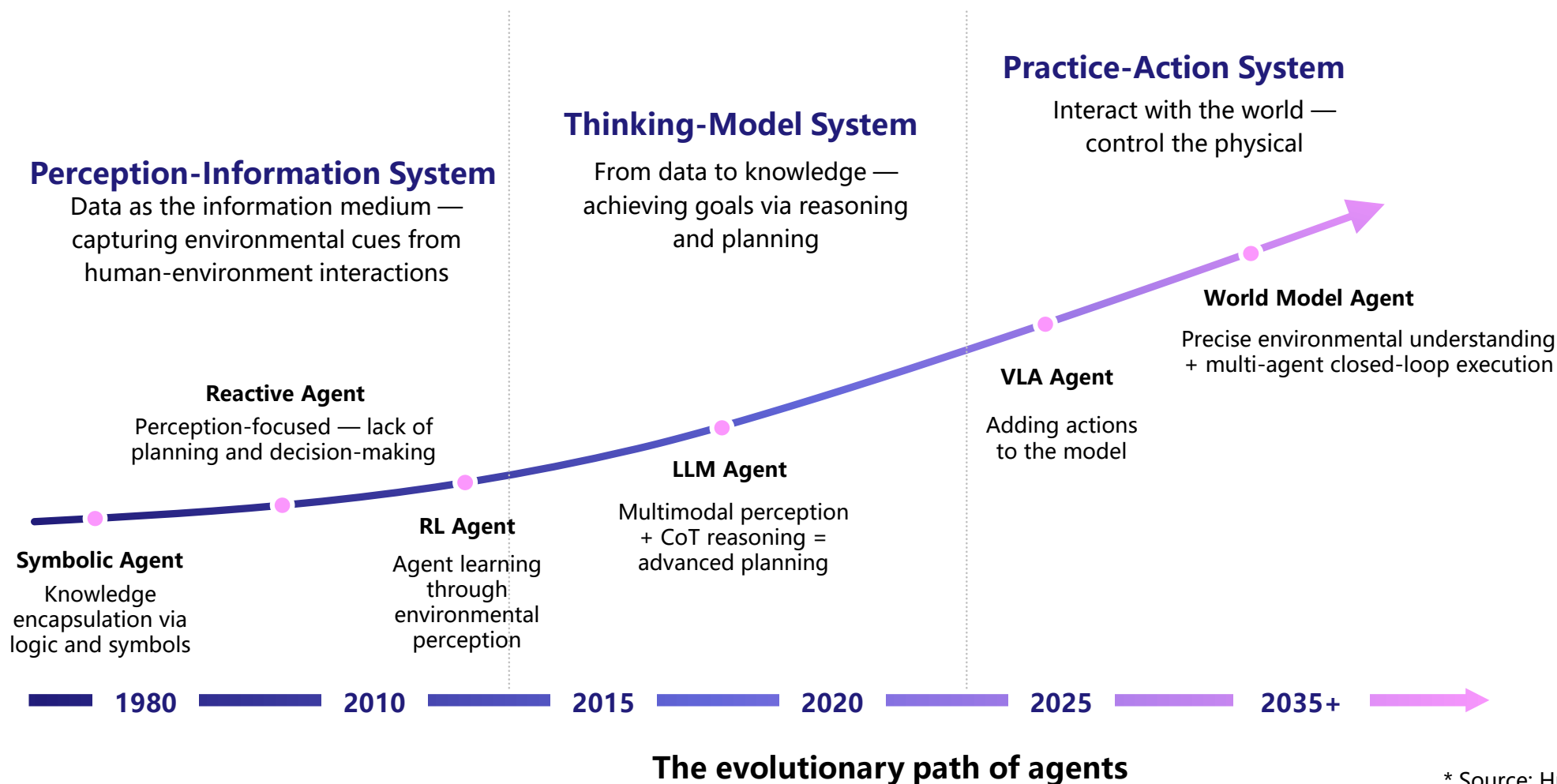


Mission reaffirmed

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Over the next 10 years, QIS-based CMOS sensors and Edge AI will shift "optics + AI" from image capture to computational perception and spatial intelligence—moving beyond human vision to enable machine-centric reasoning about the 3D world.



* Source: Huawei



"The extension of human eyes in time and space" - enabling machines to see visible and invisible information



Increase in
quantity

1 > 5 > 10+

Multiplication in cameras of each terminal device
360° perception + grasping + obstacle avoidance



Optics +
X Multi-modal

See clearly > Understand deeply

Material, deformation & state recognition via spectral/IMU/tactile calibration.



Edge
Computing

Passive imaging > Active perception

On-device inference + built-in AI chips

Increase in quantity and value



Personal background and the original intention of joining the Company

nearly **40** years

R&D of technologies and industrial experience in the fields of optics and lasers

why

Core optical perception strength
+ clear strategic vision

Mission

Lead cutting-edge technology planning and R&D execution to accelerate strategic transformation



Core Assets

competitive edge

PART

2

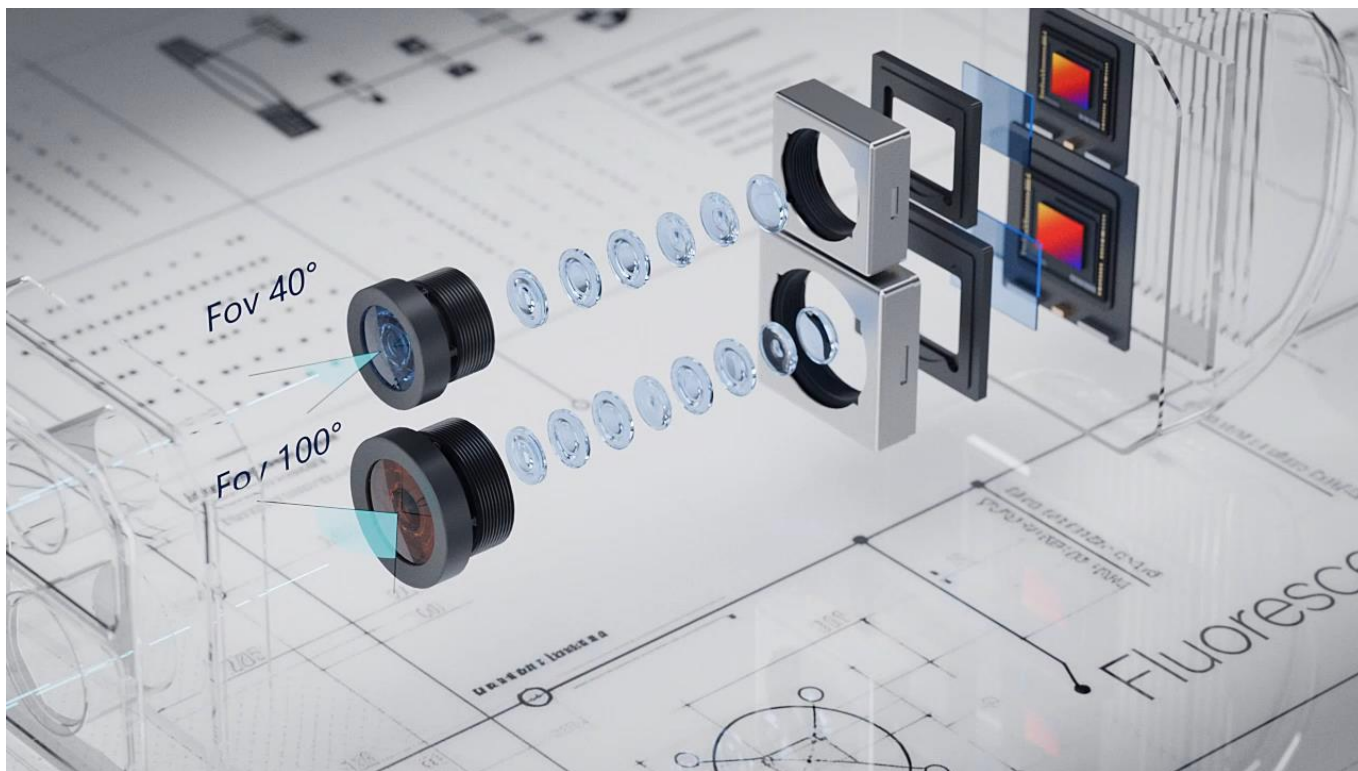


A 40-year "optical capability chain" - an irreplaceable differentiated advantage

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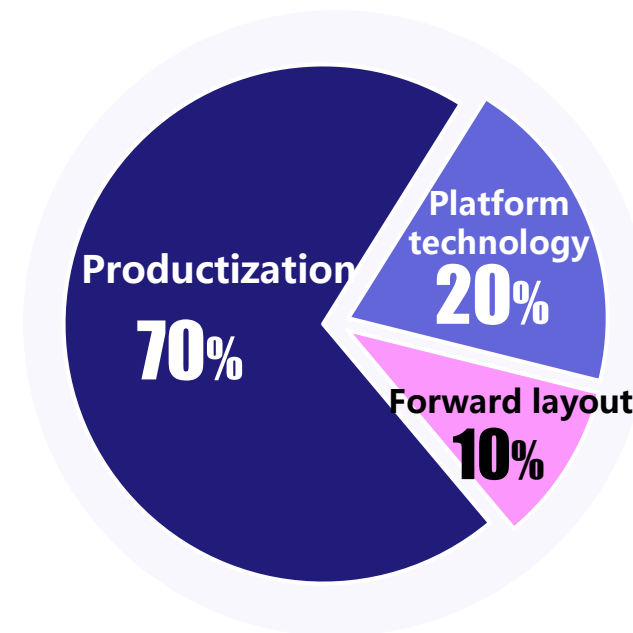
Complete end-to-end optical capabilities

Ultra-precision manufacturing → Lens sets & Modules → Systems & Solutions



2024/ 2025 **~8%**
R&D expenditures/revenue

Accumulated granted patents **8000+**




R&D Mode " 721 "



Market position

Handset Lens Sets
Global market share

NO.1



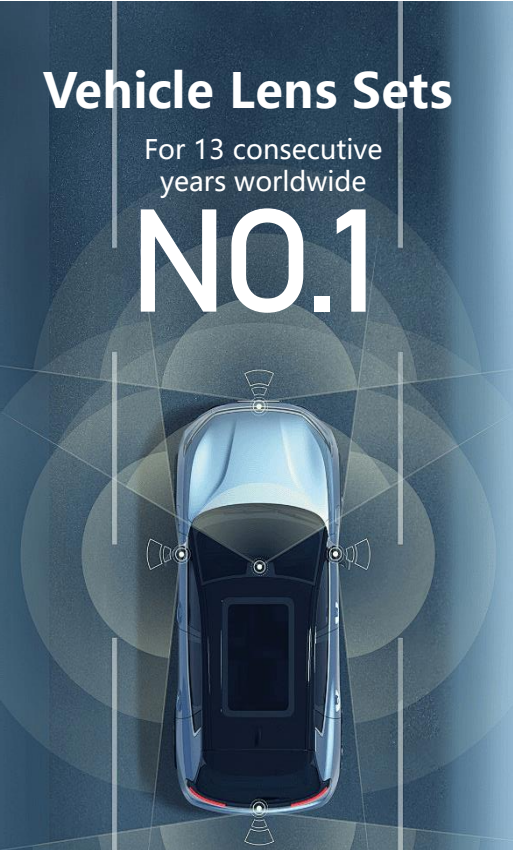
Handset Camera Modules
Global market share

NO.1



Vehicle Lens Sets
For 13 consecutive years worldwide

NO.1



2025 Global Market share

34%

Strategic Depth: “Optics+AI”

New Business Scenarios

PART

3



Strategic Landscape: “Optics+AI” Growth Engine

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From optical perception to **optical chips, interconnects, storage, and computing**

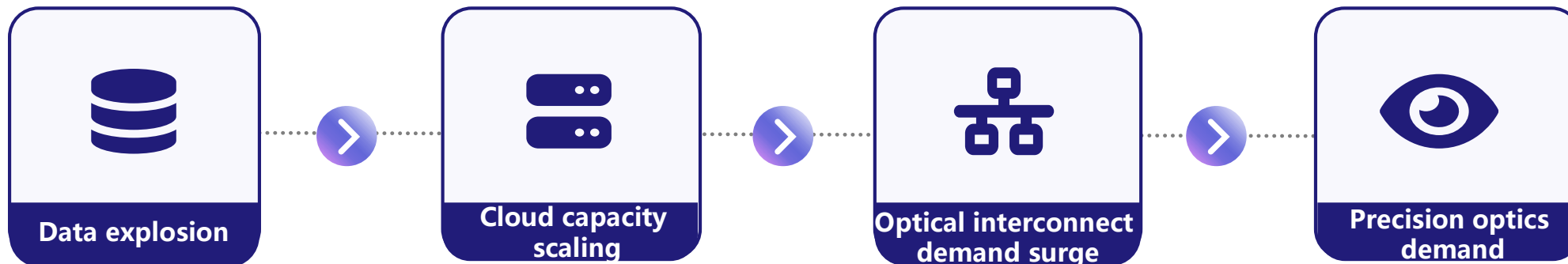
Core logic

The “**optical replacing copper**”
trend in AI computing clusters

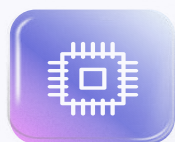
——Optical Interconnects from Lab to Mass Deployment



Application & Model Demand Propagation



Optical Foundation



CPO (Co-packaged Optics)
Chip-level optical interconnects



Silicon photonics technology
Silicon-based photonic integration



High-speed optical modules
800G→1.6T→3.2T



Advanced packaging
Heterogeneous integration of optoelectronic devices

Certain demand amid uncertain routes:

high-precision optics and precision optical coupling.



Scenario 1: Optical Interconnects – CPO Opportunities

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Background

Copper interconnects face growing physical limits in bandwidth, power, reach

Our edge

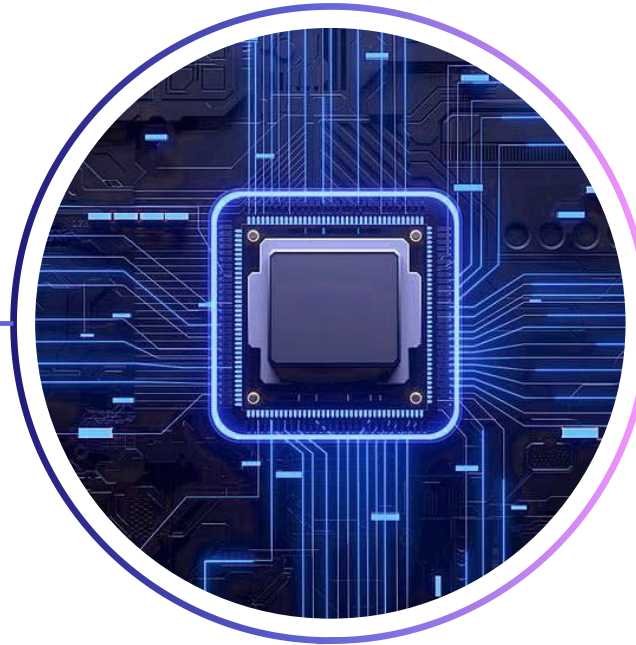
Micro-nano optics, precision manufacturing
→ transferable to optical transceivers

Target scenario

Short-range, high-speed interconnects within AI computing clusters



**From optical perception to
chip-level optical solutions**



**Vehicle and AI vision:
surging demand for
dedicated optical chips**



Synergistic Effects Across Emerging Sectors

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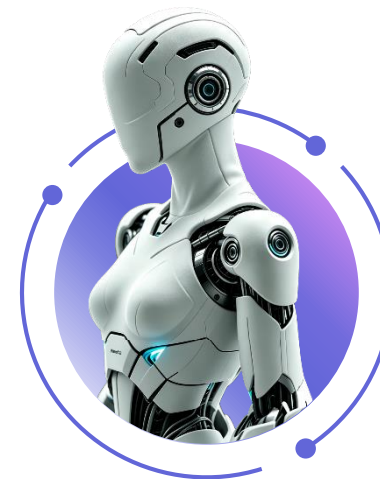
Vehicle Optics

LiDAR, HUD, smart lighting
– continued focus



AI Glasses / XR:

Next super-category – full-chain
optics to full-device ODM



Robotics

Spatial AI for vision scenarios
from structured-light/ToF to SLAM,
from arms/hands to hand-eye-brain systems

Technology & Talent Strategy

Dual Engines for Strategy Execution

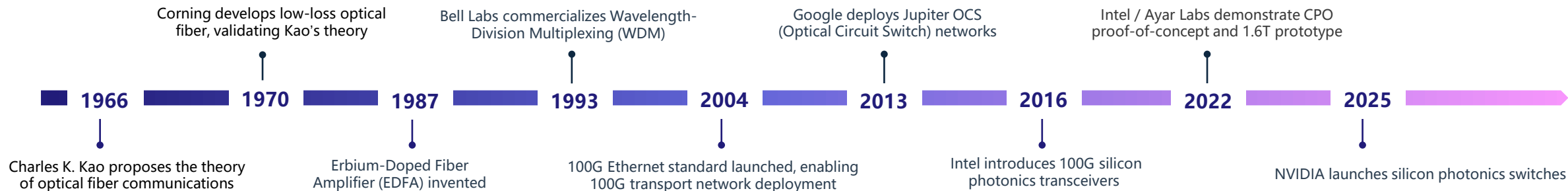
PART

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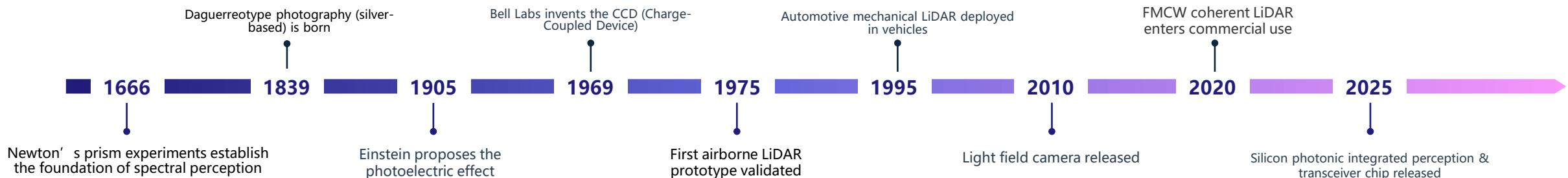


Optical Interconnect & Optical Perception Technology Milestones

Optical Interconnect Technology Milestones



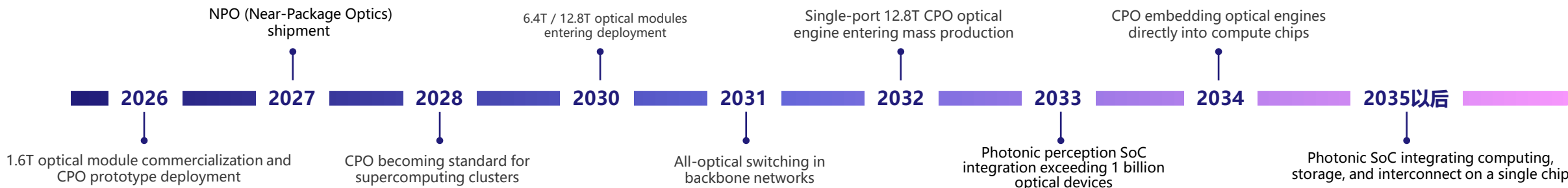
Optical Perception Technology Milestones



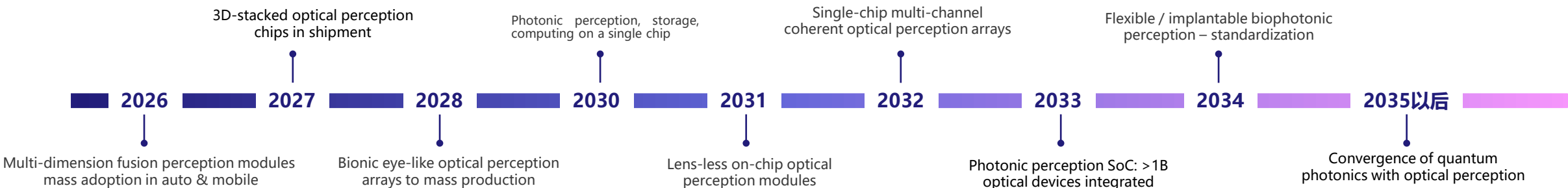


Future Technology Outlook: Optical Interconnect & Optical Perception

Optical Interconnect Roadmap



Optical Perception Roadmap



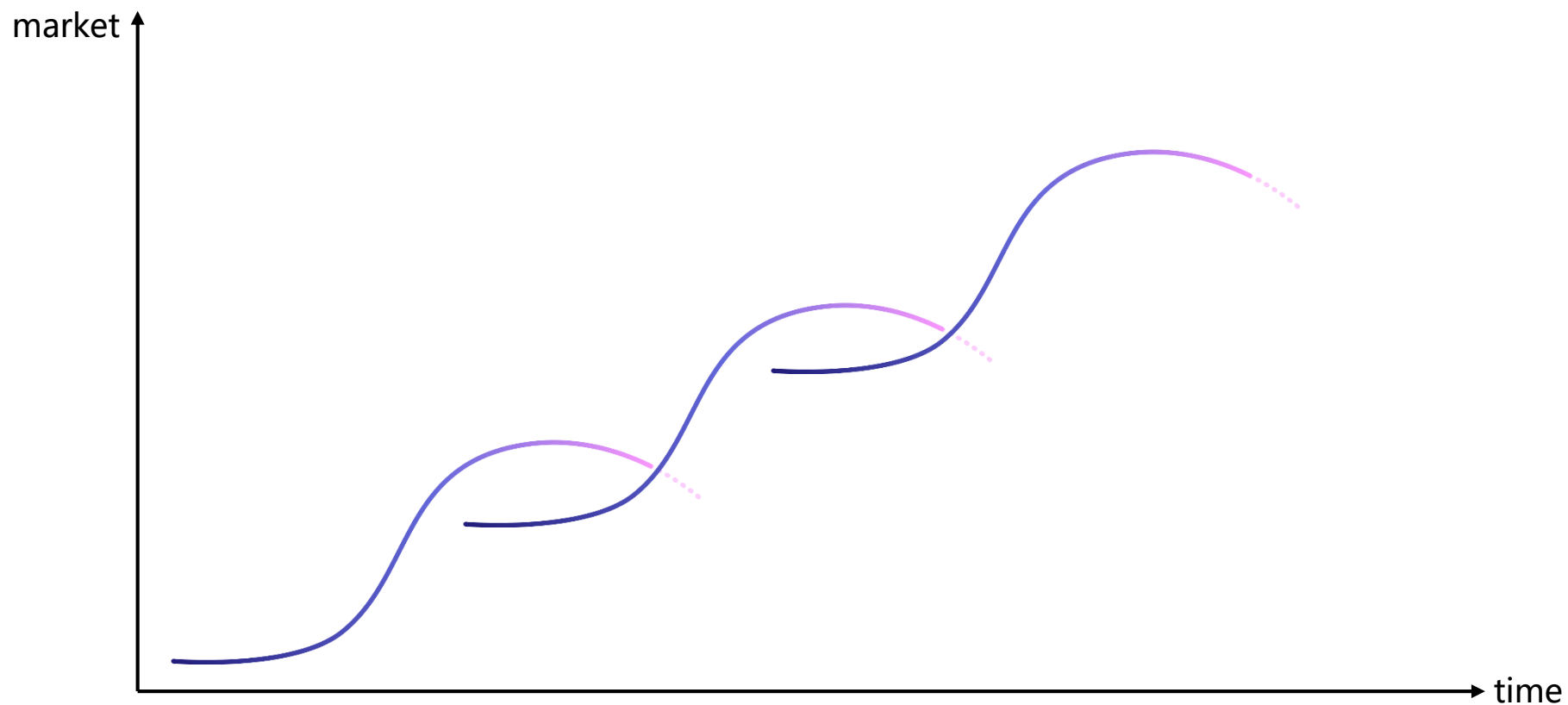


Technology Commercialization Pathway – From Lab to Market

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A three-tier roadmap: one generation in production, one in development, one in exploration





Talent as the Primary Engine for Strategy Execution

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Our Role

Driving translation of cutting-edge research
into commercial outcomes
Strengthening core technology portfolios

Attracting Global Top-Tier Talent

In areas such as system architecture, optical interconnects, and AI



Industry-Education Integration

Cultivating interdisciplinary talent through university partnerships



Investment Value & Outlook

PART

5



Strategic Repositioning & Value Reassessment

AI compute demand growth → optical interconnects / perception market expansion



Application-layer volume/value growth → Model-layer data value-add
→ Infrastructure-layer compute scaling → Value closed loop

Established Foundation

Highest Certainty

Handset and vehicle lenses sets upgraded by AI capabilities

Growth Catalysts

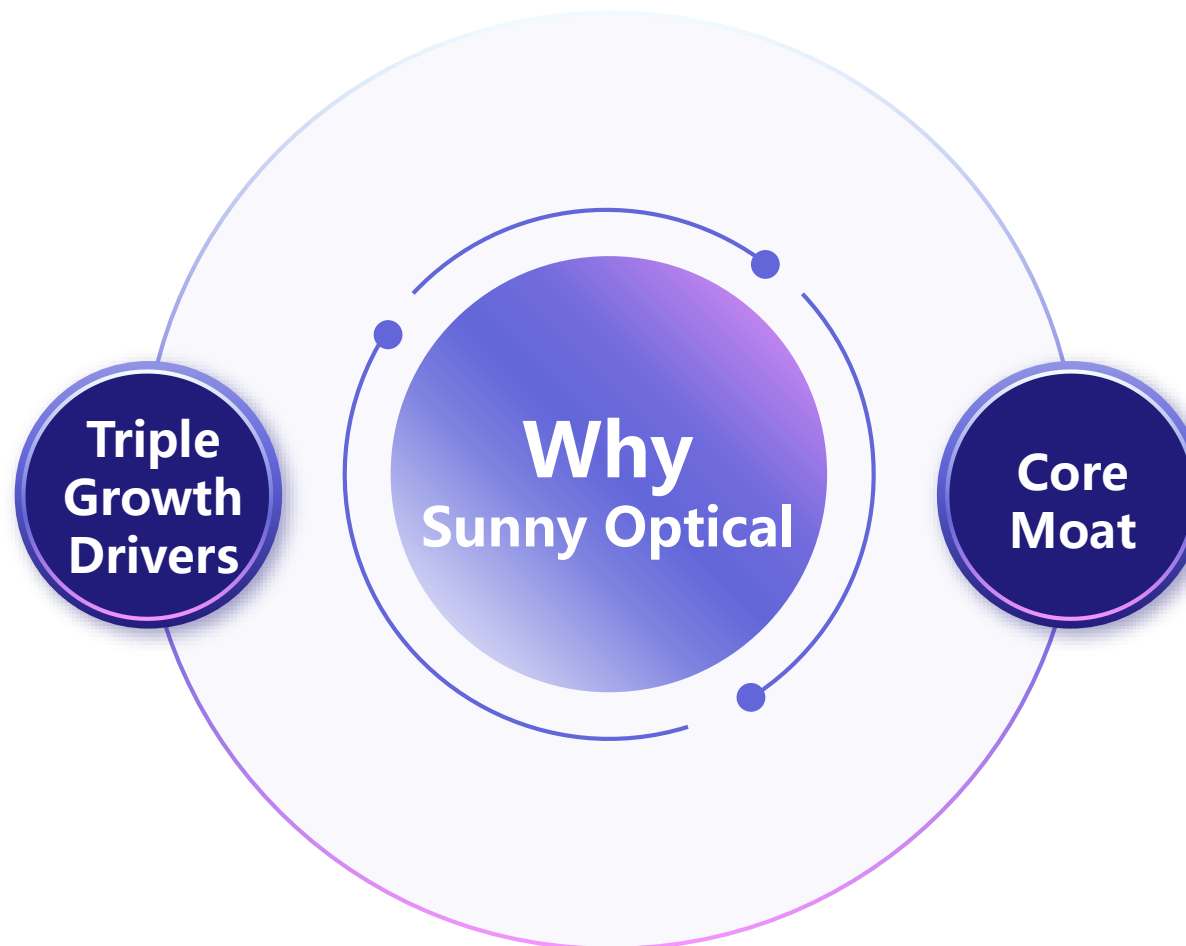
Fastest Growing

Robotics / AI glasses sensors

Future Options

New Growth Engine

Optical interconnect components/ modules and data services



40 years of experience and capabilities

Highly reusable precision optics capabilities



Customer extension

existing Tier-1 customers expanding into new segments



Capital and industrial integration

ample cash flow and access to capital tools

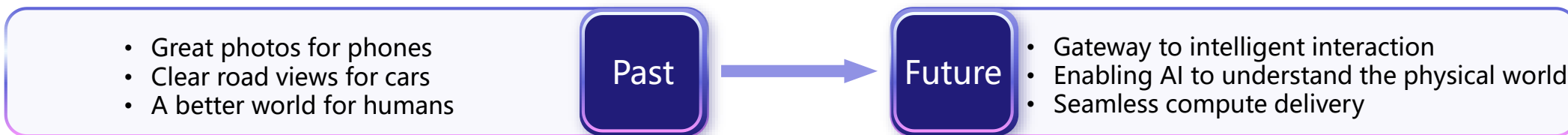
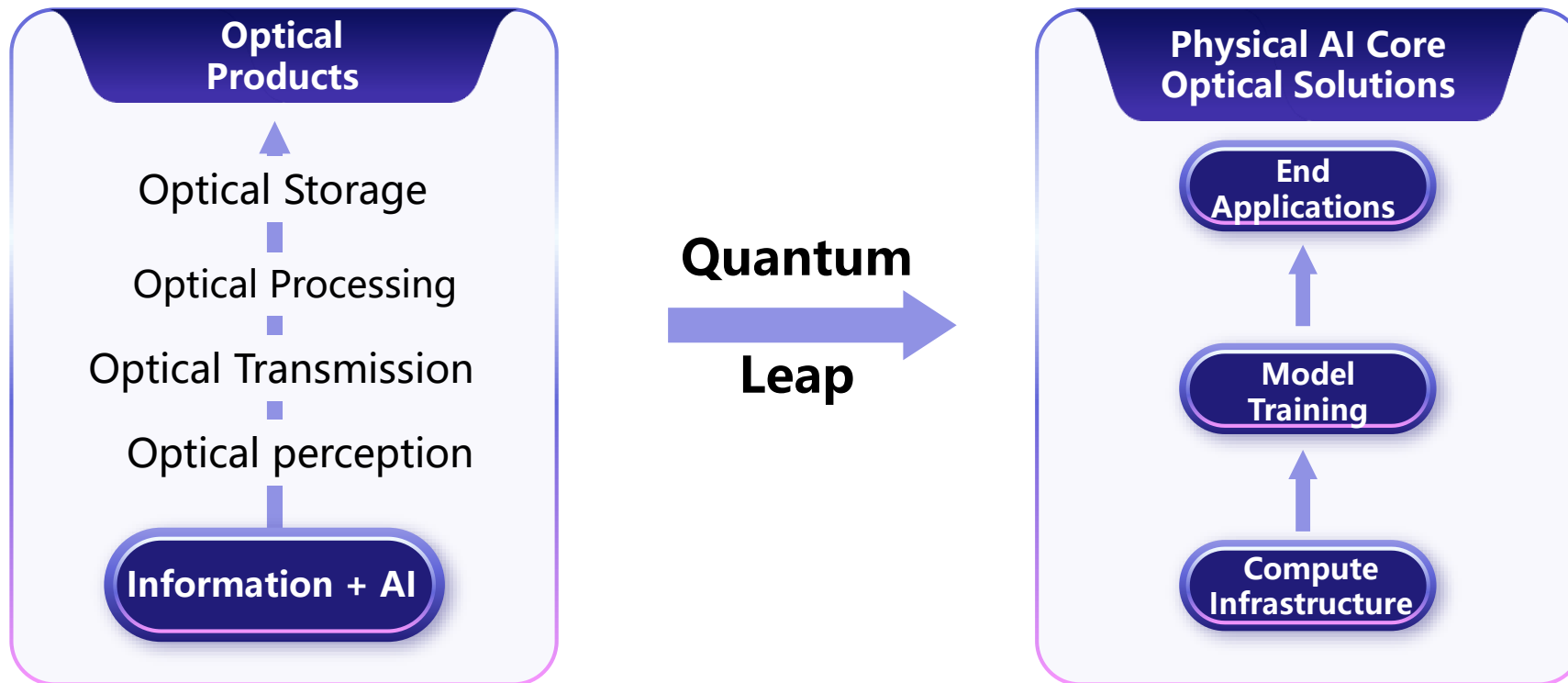
Sunny Optical's Moat – Unreplicable Differentiating Advantages

40-year optics track record · Global No.1 · Strategic clarity



Paradigm Shift

Electricity defined information computing for the past six decades
Light will power intelligent interaction for the next six decades



**From “imaging sensing” to
“optics + AI” ,
this shift is unlocking not only
new tracks
but also
a fundamentally new
valuation logic**



Create Together

- Sunny Optical's Core Value: "Co-creation"
- Our Invitation: Continuous communication, transparent disclosure, and shared long-term value



Create Together

- Sunny Optical's Core Value: "Co-creation"
- Our Invitation: Continuous communication, transparent disclosure, and shared long-term value

For the past four decades, we enabled phones and cars to "see" the world.
For the decades ahead, we will empower AI to "see" the world.





THANKS