

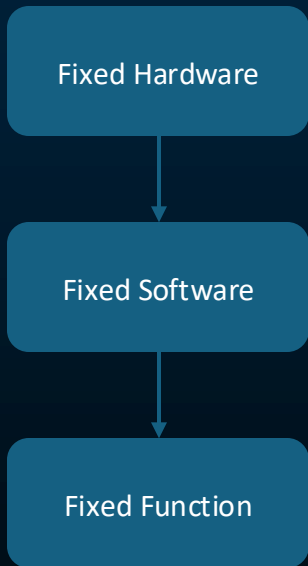
# From SDV to AIDV

## *Automotive Intelligence: Trends & Practices*

Thunder Software Co., Ltd.

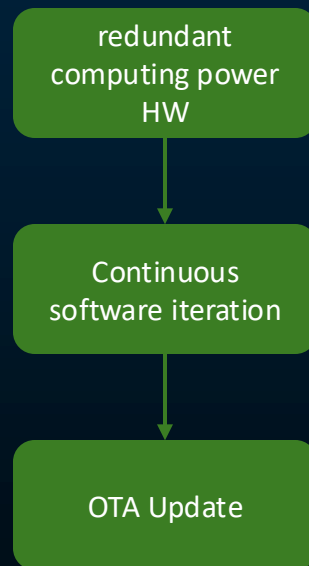
SongYang

### Traditional



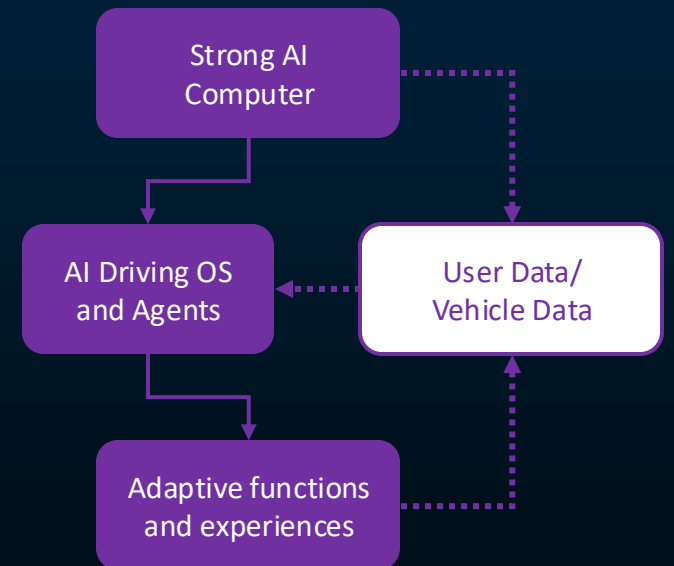
Users can only use the product as defined, no upgrades.

### Software Defined Vehicle (SDV)



Continuously access new features, improvements, and function subscriptions.

### AI Defined Vehicle (AIDV)



Vehicle active services, continuous evolution, and emotional interaction.

# Vehicles Evolved to Second Living Space

## More Specific Smart Cockpit Needs



Drive Safety



Comfortable Experience



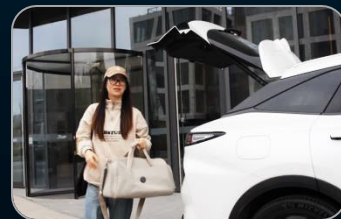
Active Service



Personalized/  
Differentiated



Health



Convenience

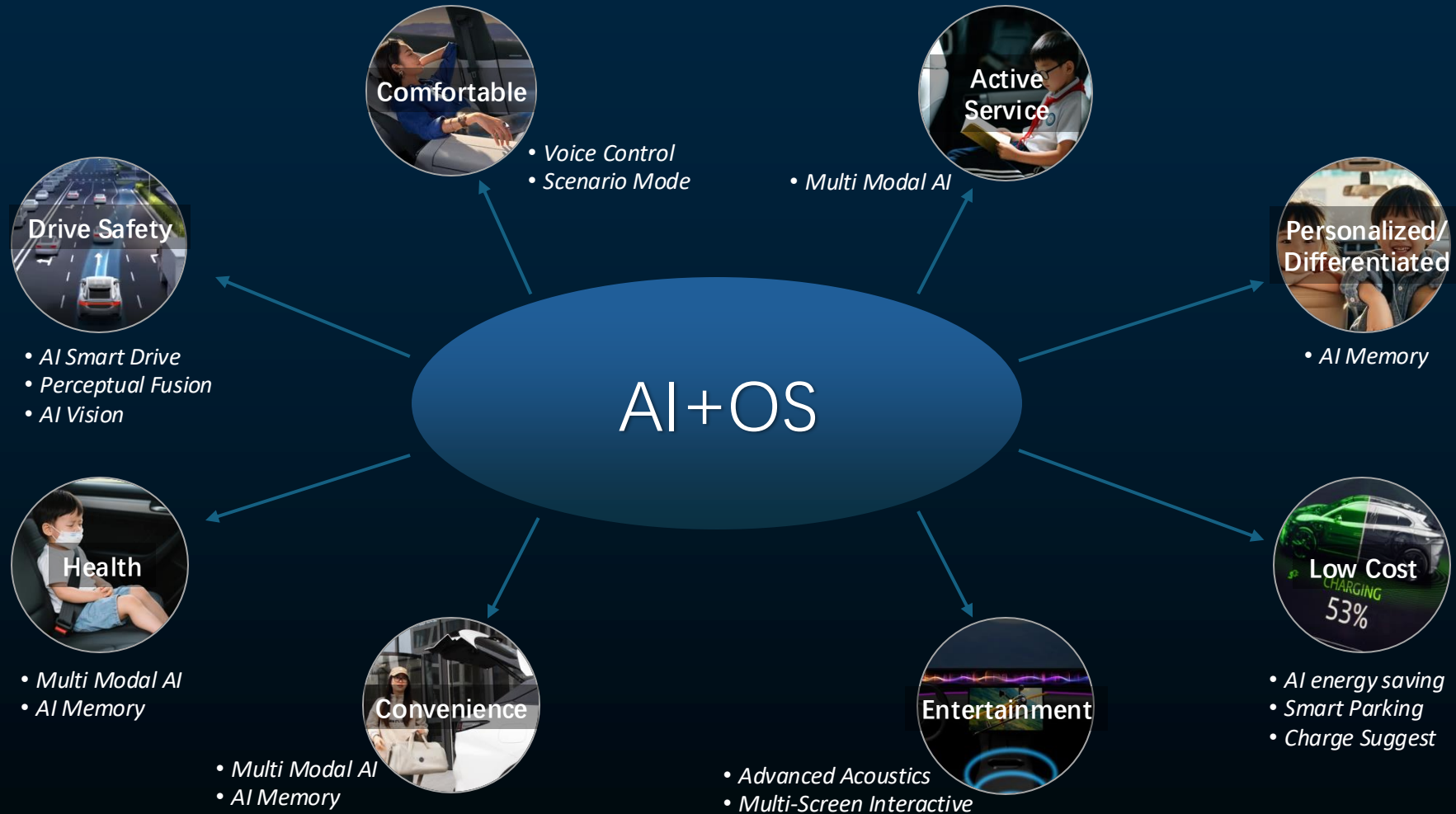


Entertainment



Low Cost

# AI: Enabling & Exceeding These Needs & Experiences



# AI is driving the global upgrade of the technology industry

As a complete carrier of perception, computing, and action, the automobile is the most suitable for AI implementation.



Rapid Development of  
On device AI HW and LLM

7B<sub>VLM</sub> → 30B<sub>VLM</sub>

200<sub>TOPS</sub> → 700<sub>TOPS</sub>



Decisive Improvement  
in User Experience

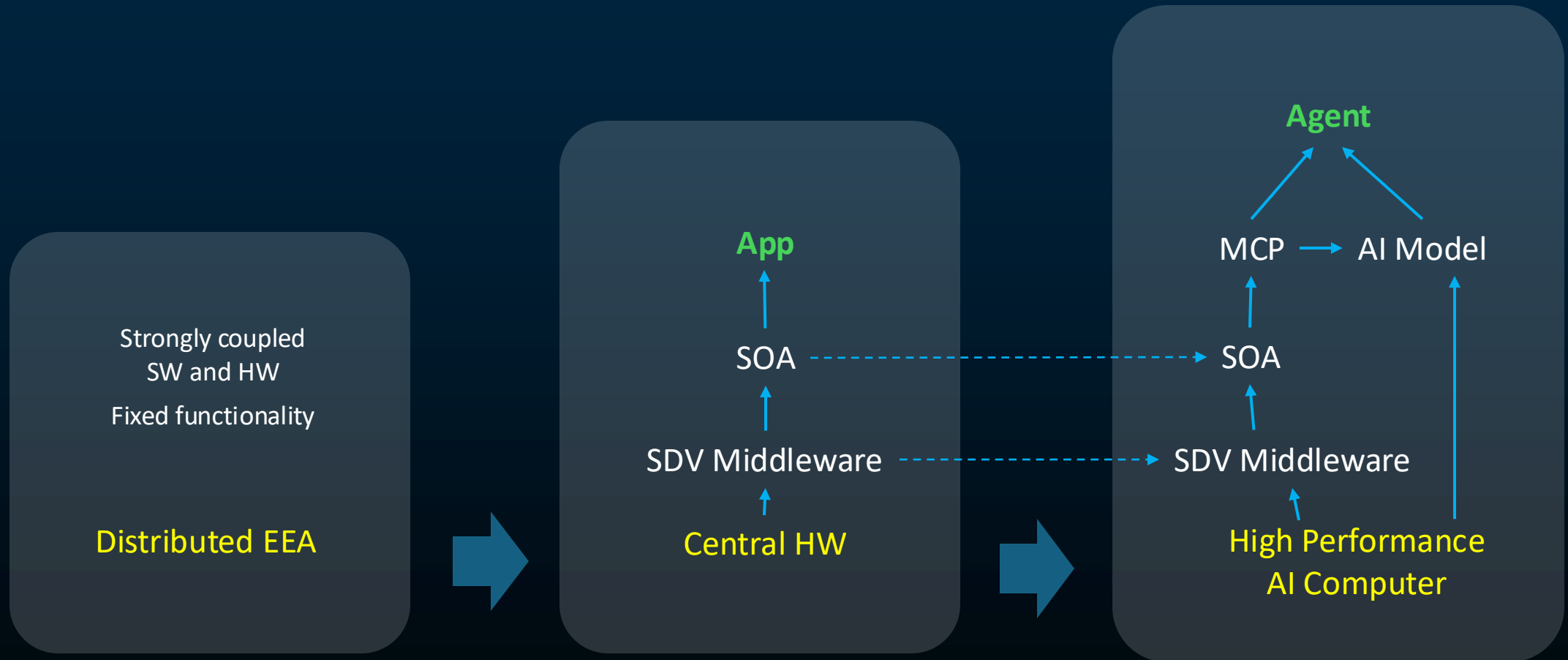
- Native language interactive
- Active services
- Comfortable space
- ADAS



New Paradigm from  
Development to Operations

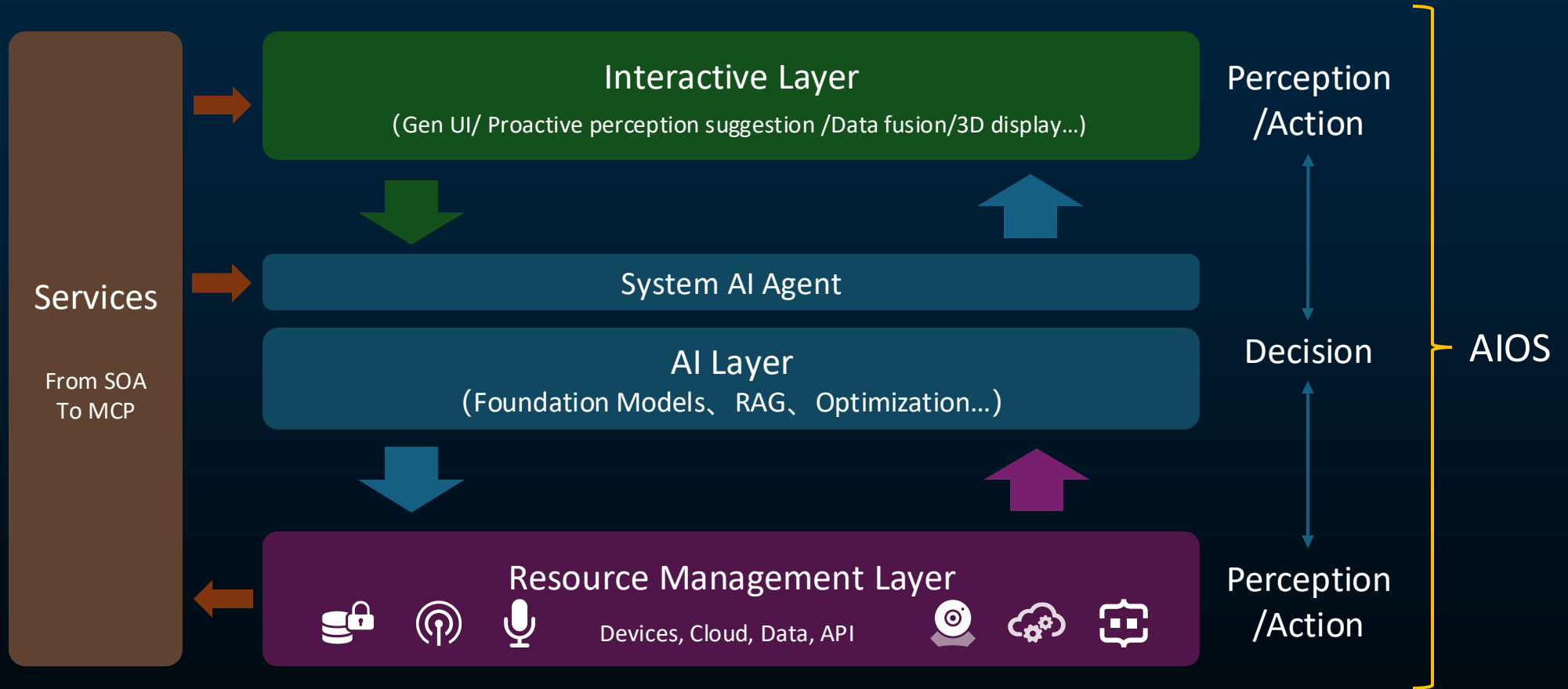
- Information processing efficiency
- Software development paradigm
- User service/operational tools
- The transformation from data to model

# The Development of SDV Provides the Foundation for AIDV



# AIOS Emerges as the Times Require

$$\text{AIOS} = \text{AI} \times (\text{Resource Manager} + \text{Interactive} + \text{Service})$$



# Aqua Drive OS

*With AI as the core and ecosystem as the driving force, we assist automotive industry in achieving leadership in product experience and development efficiency amidst the transformation.*



## Integrated Experience

*High-end differentiation requirements*

- Cockpit and driving integration – globally leading
- Interaction integration – dynamic and smart
- Perception integration – real - world space
- AI integration – intelligent connectivity, aligning knowledge with action



## AI Native

*The requirement for integrating LLM AI into vehicles*

- AIOS Native Architecture
- Multi - Agent Matrix
- Comprehensive Coverage of Vehicle - Use Scenarios



## Accelerate MP

*The requirement for globalized competition in the industry*

- Multi-platform stable baseline
- Deep integration of global ecosystem software
- Complete development environment

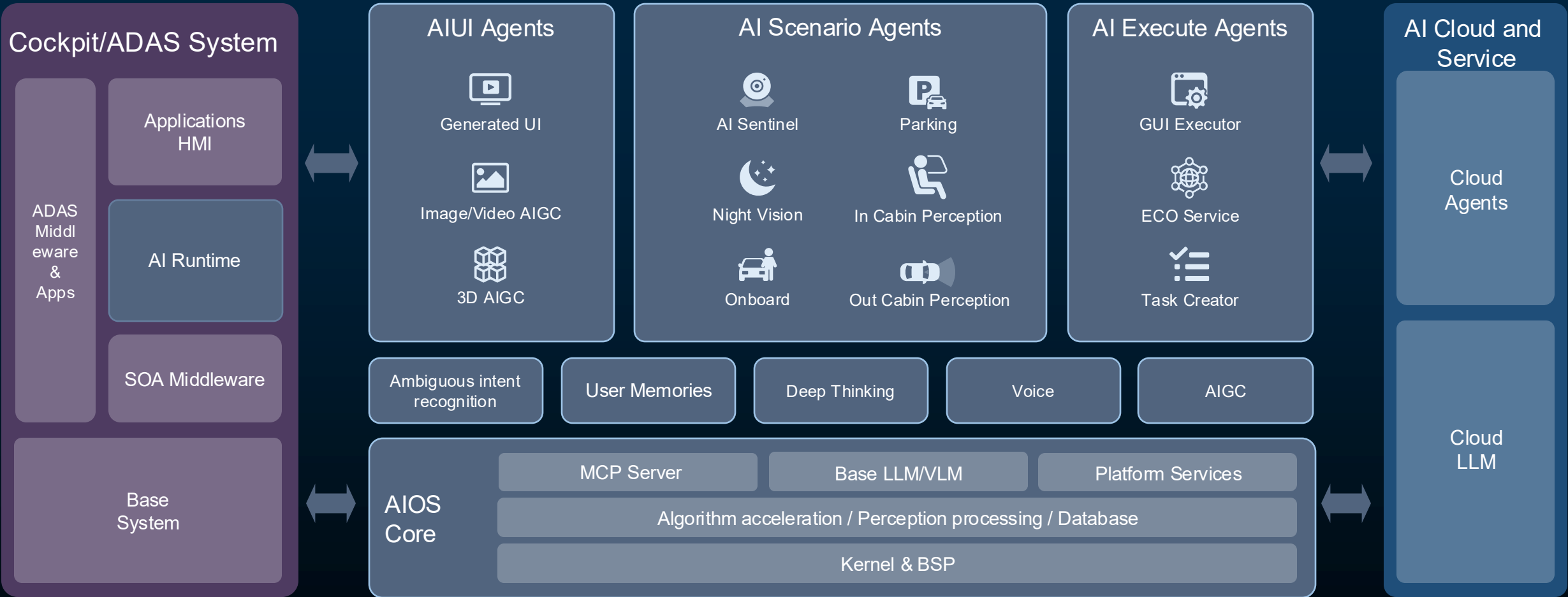
# Core features of Aqua Drive OS - Aqua AIOS Overview

1 + N + N  
AIOS Agents Scenarios



<b>No.1</b> Vehicle-side 14B large model	<b>No.1</b> MP of AIOS	<b>No.1</b> Sample A of AIBOX
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# Core features of Aqua Drive OS - Aqua AIOS Offering



# AI Agent Matrix—Cover the Entire Process of Vehicle Usage



Onboarding



Welcome Onboard



Message Assistant



Trip Assistant



Driving



In Cabin Perception



Out Cabin Perception



GUI Executor



Parking



AI Sentinel



Parking Assistant



Night Vision



More



Gen UI



ECO AI Agents



Text/Image Gen

# Aqua Drive AIOS Agent——AI Greeting

滴水AIOS  
AI迎宾Agent

# Aqua Drive AIOS Agent——Message Assistant



# Aqua Drive AIOS Agent—GUI Executor



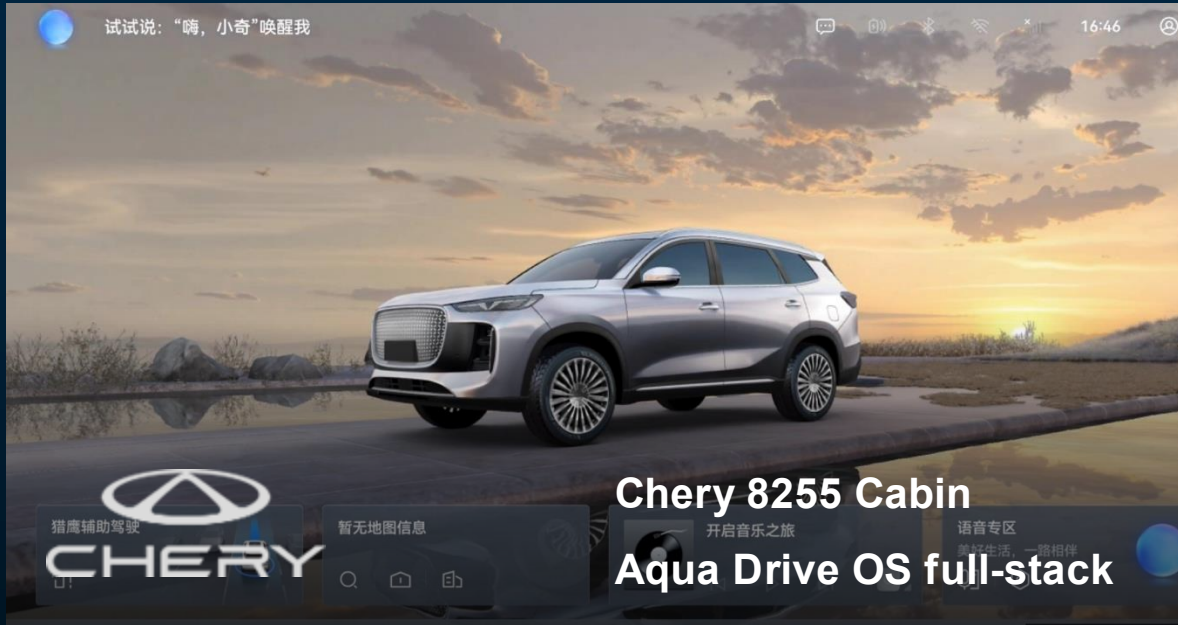
# Aqua Drive AIOS Agent——AI Sentinel Mode



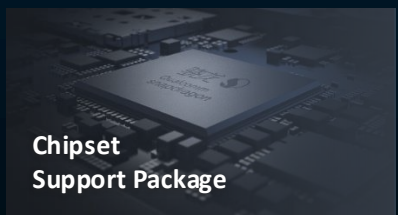
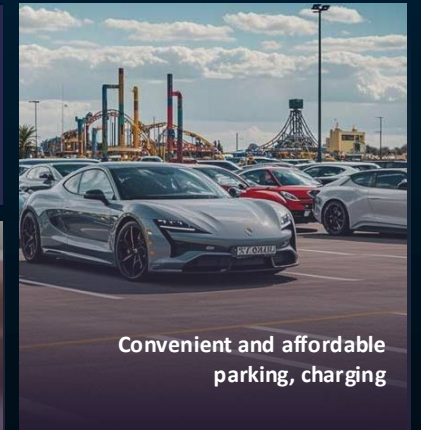
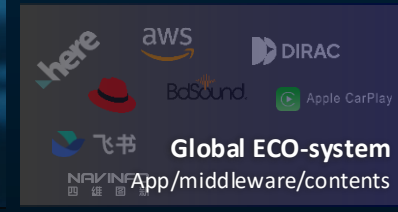
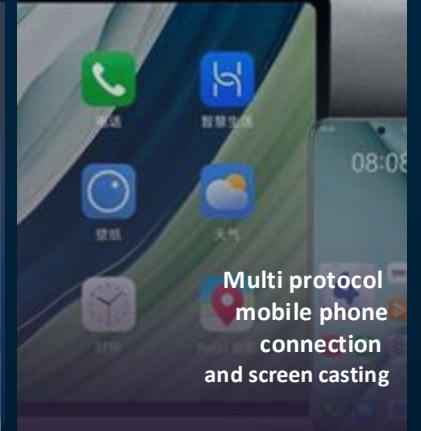
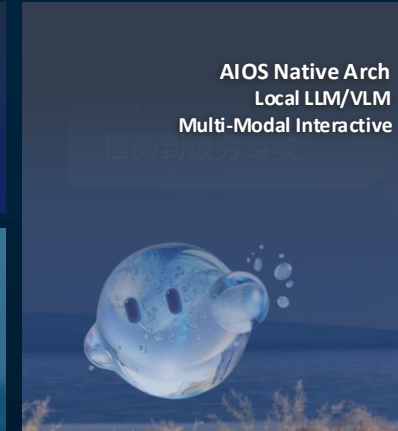
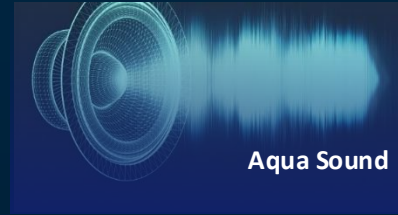
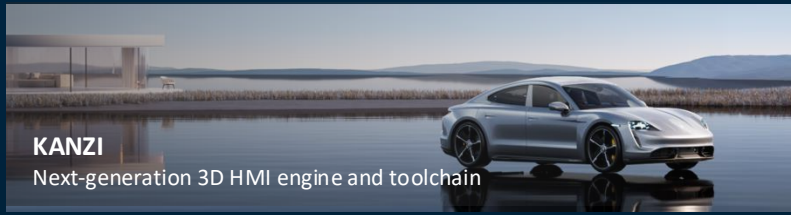
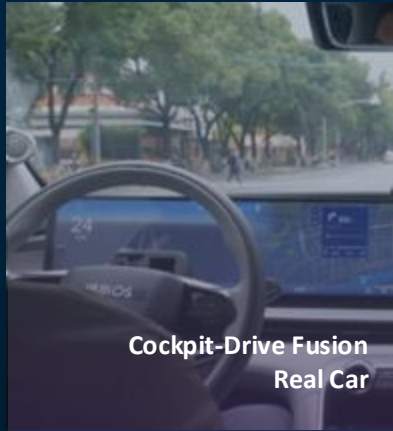
# Aqua Drive AIOS Agent—Generated UI



# 20+ Based on the MP of Aqua Drive OS, concept cars, and POC projects



# Aqua Drive OS, Not only AI





Thank you