

A fleet of white Volkswagen Carizon autonomous vehicles is displayed in a modern, brightly lit showroom. The cars are arranged in rows, with one car in the center foreground facing the viewer. The background features a large wall with the word "CARIZON" in bold, black letters. The floor is highly reflective, showing the cars and the wall. The overall atmosphere is clean and futuristic.

CARIZON

Our mission

Deploy state-of-the-art and cost-competitive automated assisting driving solutions seamlessly upgradable over the air

Agenda

CARIZON Introduction

ADAS Strategy & Product Portfolio

ADAS Experience

System Learning Live Demonstration

CARIZON combines global scale with best-in-class ADAS

Joint venture of Volkswagen Group's CARIAD and ADAS specialist Horizon Robotics

C A R I A D



地平线

Horizon Robotics

60%

40%

CARIZON

Registered capital: € 900mn

Driven by highly skilled and motivated team in China for China

KEY FACTS

- ★ **11/2023** established
- 👥 **500+** specialists
- 📍 **2** sites
- 📄 **ISO9001/ISO26262/TISAX** certification



HIGHLY SKILLED TEAM

- 👤 **>90%** R&D talents
- 📍 **60%** from local high-tech companies
- 📈 **70%** with >5 years of working experience
- 🎓 **>70%** with Masters/ PhD

PROPRIETARY TECHNOLOGY

AI/Data Driven Software and esp. ADAS stack
AI enhanced System-on-Chip ("SoC")

Automated assisting driving solutions for Volkswagen Group in China

Developing, manufacturing and selling ADAS for the Group's Joint Ventures

One ADAS
in China:

ADAS supplier for Volkswagen Group in China of **differentiated products** covering various brands



The image features a world map on the left with China highlighted in white and circled. A large teal arrow points from this circle to a detailed map of China on the right. The word 'CARIZON' is written in large white letters across the world map. On the China map, four joint venture logos are shown: FAW-Volkswagen, Audi FAW, SAIC-Volkswagen, and SAIC-Audi. Dotted arrows connect these logos to the word 'CARIZON' on the right.

CARIZON

CARIZON

Executing our mission along our customers' demands

Pioneering advancements in automated assisting driving solutions

What our customers demand ...

- » Superior technology and performance
- » Competitive cost
- » Cooperative attitude and strong adaptability

... and how we deliver

- L2+/L2++ as standard from 2025 and pathing the way towards L3
- Local inhouse development of customized AI software stack
- High level of flexibility while deeply understanding VW Group needs

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L2+ highway NoA to enter market this year, L2++ expected for 2026

Urban Navigating on Autopilot (NoA) enhanced by new China Electrical Architecture CEA

L2+ Standard Highway NoA

L2++ Standard Urban NoA

L2++ Pro Urban NoA



128

6

1

12

0

TOPs

Cameras

Radars

USS's

Lidars

128

11

1

12

0

TOPs

Cameras

Radars

USS's

Lidars

420

11

1

12

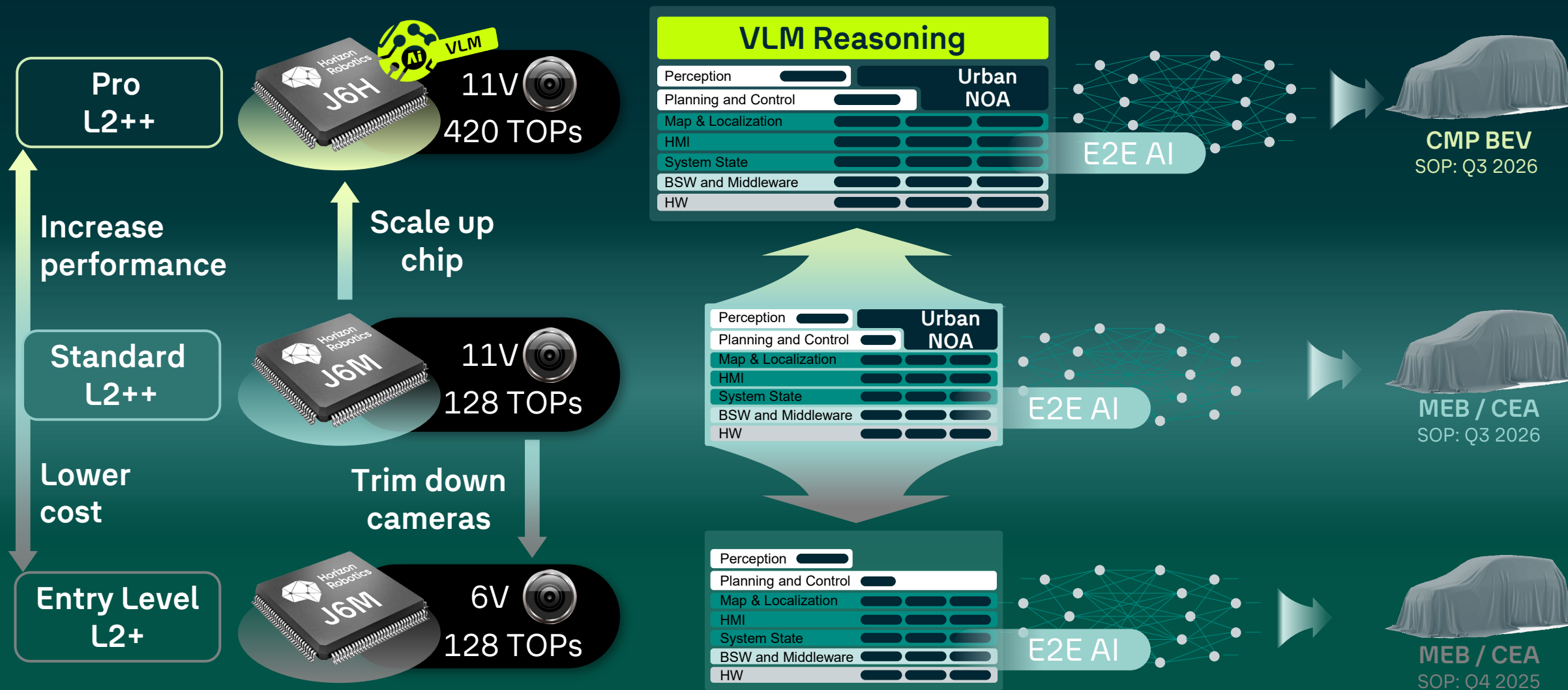
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2025

2026

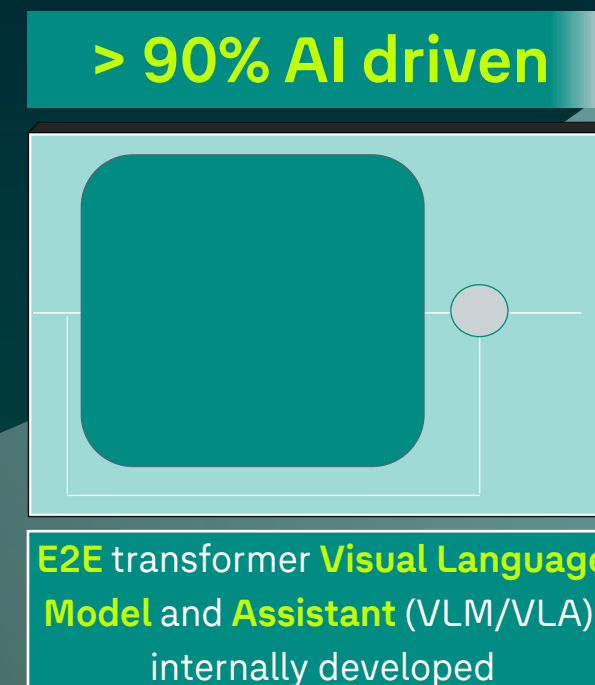
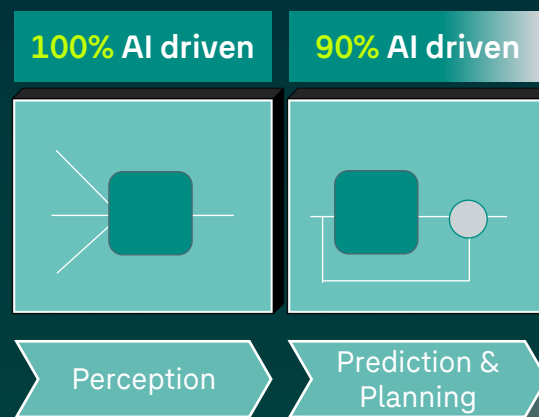
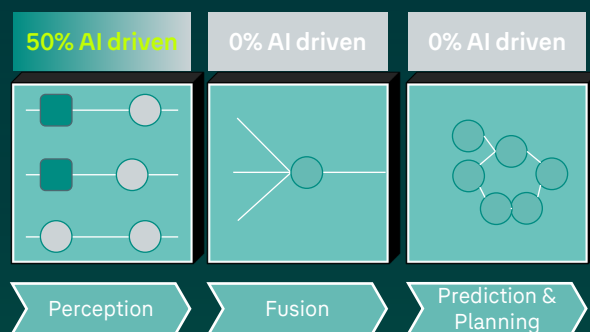
Customer will be able to choose from various options in A-segment
Creating synergies: Improved chip and VLM for premium L2++, downsized sensor setup for entry-level cars



L2++ by leveraging AI: From rule- to reasoning-based algorithms

Decision-making evolution based on AI ensures state-of-the-art end to end AD solutions

- AI-driven model
- Rule-based model



Degree of AI
powering ADAS stack

Past

Today

2026

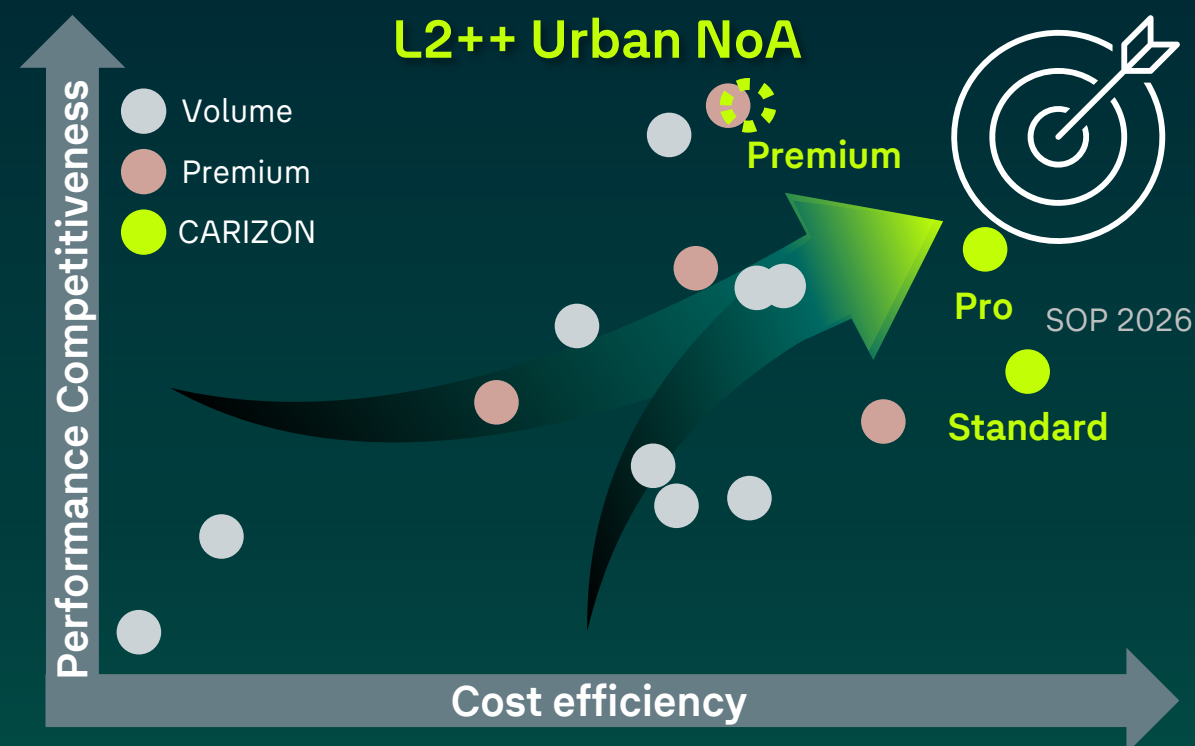
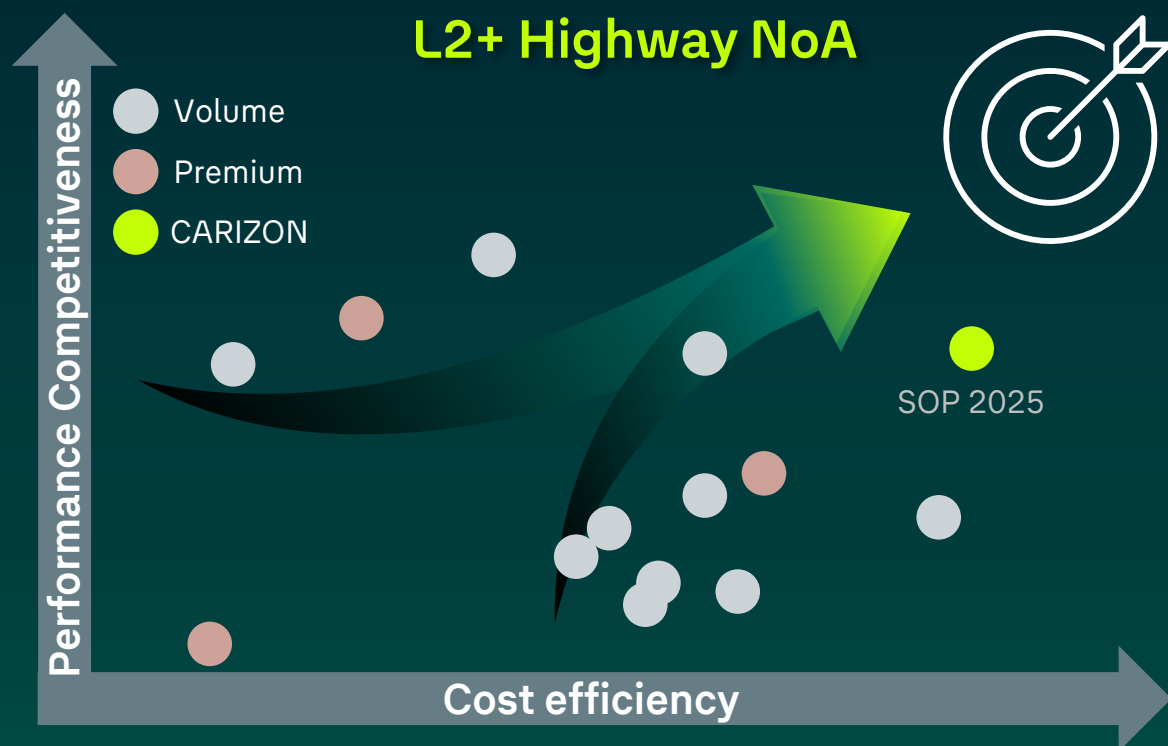
Complex and **rule-based algorithms** without AI

Transitory solution utilizing **strong local AI models**

Reasoning-based VLM/VLA on CEA enhances ADAS

CARIZON's ADAS stack to be highly competitive

Near-term launch planned as ADAS stack matures and becomes cost competitive and "VW-reliable"



CARIZON L2+ arrives late, but is cost-efficient, secure and ready to **democratize ADAS**

Differentiated **L2++** stacks **outperform cost-wise** with **competitive performance**

High VW standards delay launch, but ensure **reliability, security and excellence**

Working towards market entry of L3 ready systems

CEA in new China Scalable Platform CSP featuring fully automated / L3 ready solutions

L2++ Pro NoA

L2++ Premium NoA

L3 ready



420		TOPs	560		TOPs	2*420 or 2*560	
11		Cameras	11		Cameras	11	
1		Radars	3		Radars ¹	5	
12		USS's	12		USS's	12	
0		Lidars	1		Lidars	1~3	

2026

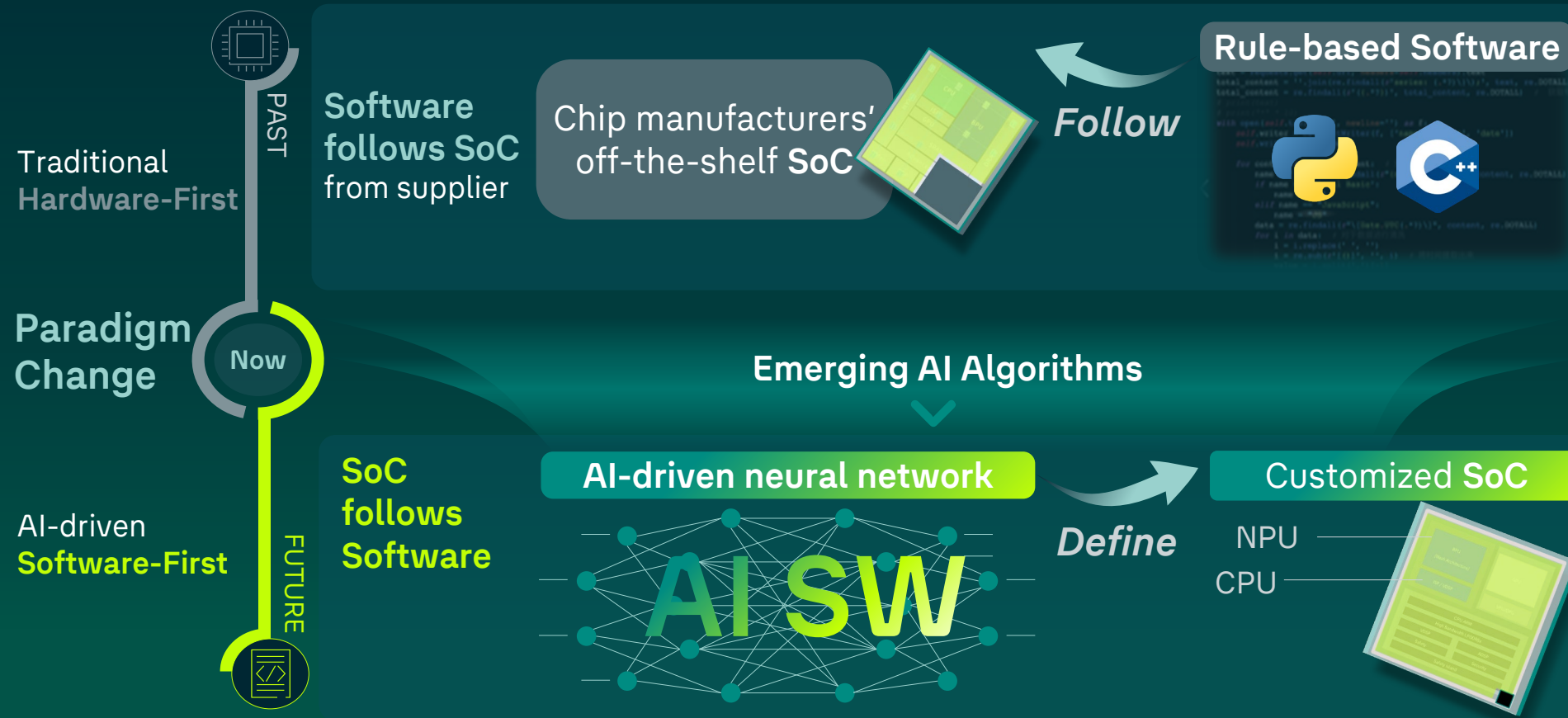
2027+

Customized System on Chip (SoC) to feature a new AI Era

Paradigm change: Software-defined SoC about to become the "FUTURE ENGINE" of SDVs

Emergency of software-defined requirements for customized chip design ...

... and implication for us



JV partner Horizon Robotics has great expertise in ADAS chip design offering CARIZON one option to participate in this tech trend

On track to support Volkswagen Group China ambitions

Highly technologically advanced and cost competitive ADAS solutions with VW-reliability and VW-safety



L2+ in 2025; L2++ powered by
CEA and E2E AI model **in 2026**

ADAS offer highly **adaptable to
end customer** requirements

L3-ready systems expected
from **2027** onwards

CARIZON solutions are
VW-reliable and safe

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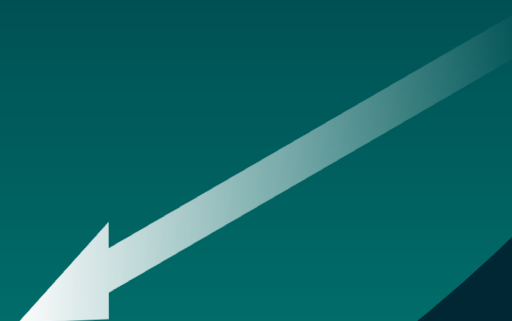
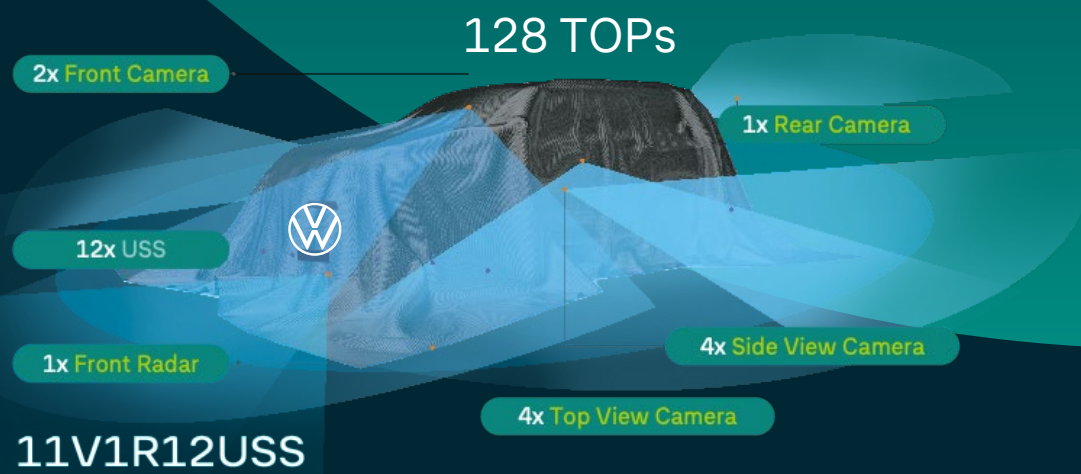
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ADAS Testdrive Overview



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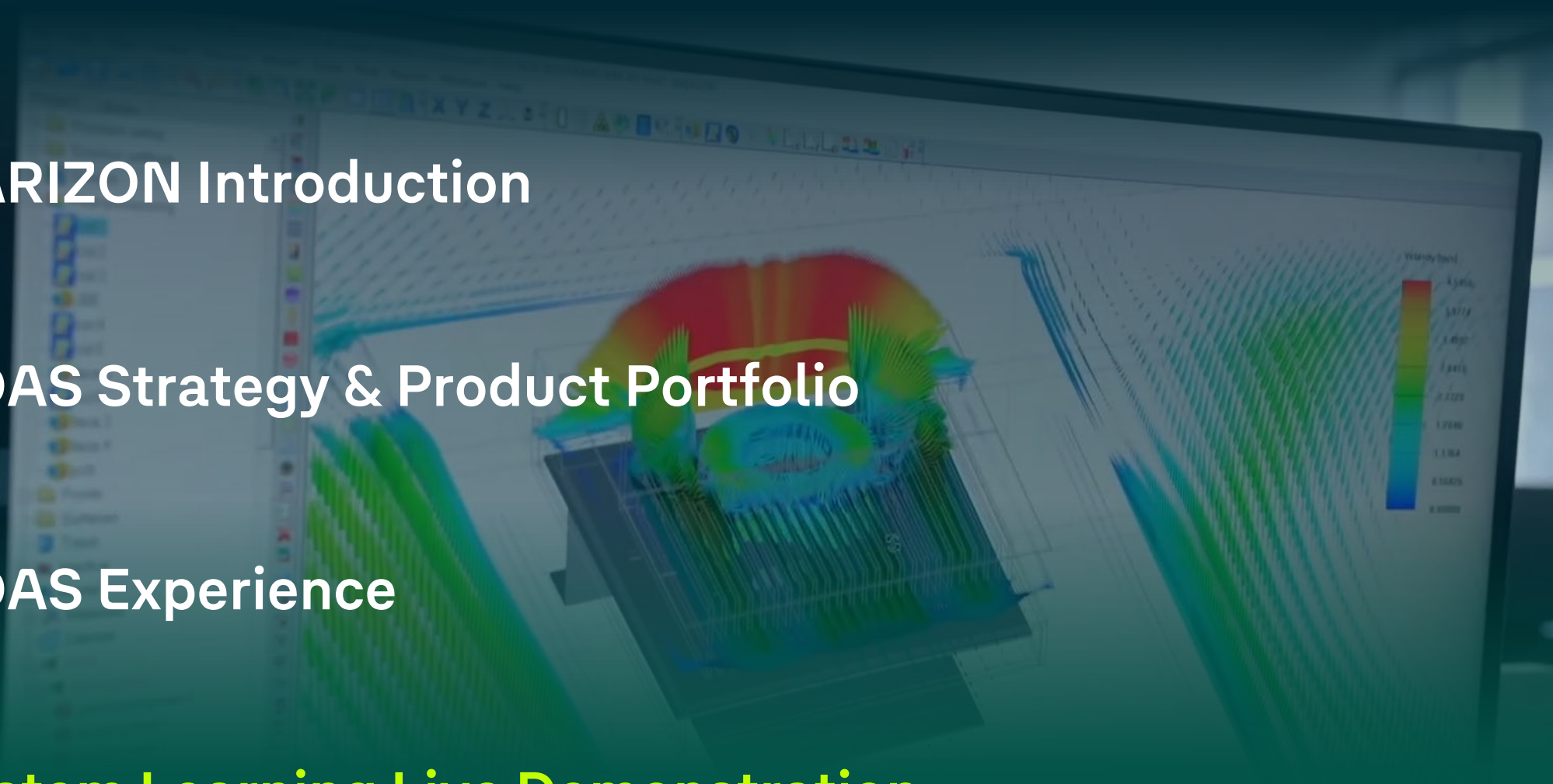
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Glossary: ADAS and CARIZON

ADAS	Advanced driver assistance system	NoA	Navigating on autopilot
BSW	Blind spot warning	SDV	Software-defined vehicle
CEA	China Electrical Architecture	SoC	System on chip
CSP	China Scalable Platform	VLA	Visual language assistant
HMI	Human machine interface	VLM	Visual language model
HW	Hardware	TOPs	Tera operations per second
LLM	Large language model	USS	Ultra-sonic sensor
ICV	Intelligently connected vehicle		

VOLKSWAGEN GROUP

China Investor Update

CARIZON Shanghai, 23 April 2025

