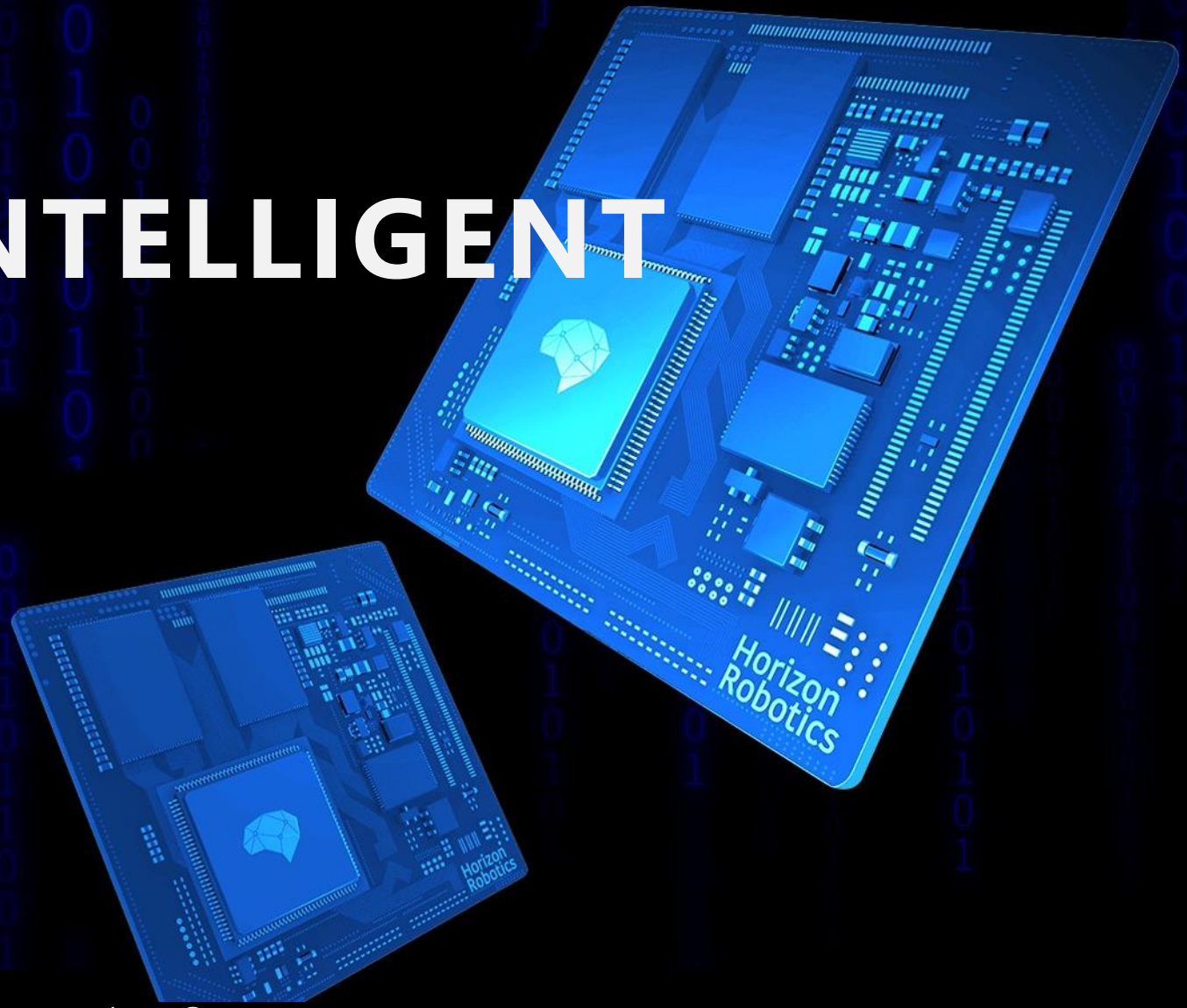
HORIZON ROBOTICS
Q2-2022 NEWSLETTER

Horizon Robotics

AUTOMOTIVE INTELLIGENT SOLUTIONS »



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A Word From Our Executive

Dear partners,

A lot has happened since our last newsletter in October 2021 !

Horizon new platform, featuring **Journey 5,** is making rapid progress in the market and is being adopted by OEMs and TIer1s globally. Journey 5 is the world's best package of automotive grade quality and safety, AI performance, energy efficiency and cost competitiveness. In this issue we reveal some recent announcements of OEMs and Horizon partnerships around Journey 5 and showcase its awesome performance.

Automotive OEMs are deploying more vehicle models with our Journey 2 and **Journey 3** AI processors, powering exciting ADAS and automated driving features, fueling our **growth** for 2022 and beyond. We look at their exciting innovation in this newsletter.

The **Chinese market**, already the world's largest, has become the first battleground for most vehicle brands in the world, for electrification and ADAS deployment. Horizon thrive in this fast-paced environment, and we share our views of the China market in this issue.

Consumers demand energy efficient vehicles, with an abundance of cockpit applications and automated driving features, where AI is a powerful enabler. This unstoppable trend requires a tight collaboration amongst partners with a shared vision, strong competencies and an appetite for challenges. Horizon continues to add industry leaders in its **ecosystem** to better serve our customers.

AI computing requirements for higher level of automation and robots keeps rising, and Horizon is already busy working on its next generation AI processor. This will be the topic for our **next** newsletter.

We are very encouraged by our customer's adoption of Horizon hardware and software technology. We are redoubling our efforts to work ever more closely, more flexibly and more creatively with our customer and partners, to realize the vision of the software defined automated vehicle.

Sincerely,

Yufeng Zhang, VP and GM of Autonomous Driving Product Line, Horizon Robotics

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Journey 5 Rapid Market Adoption

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Journey 5 is Adopted by Fast-growing Privately Owned Brand BYD

- BYD and Horizon have entered into a partnership on automated driving
- BYD, who shipped nearly 600,000 cars in 2021, is the first car company announcing it will use Journey 5 in vehicles to be launched in 2023 !
- Journey 5:
  - 3rd generation auto grade AI processor
  - Bayes dual-core BPU at 128 AI TOPS
  - ASIL B and Cybersecurity certified

Horizon CEO Kai, Yu received a BYD model car from BYD founder to celebrate their collaboration

https://www.i-micronews.com/byd-reaches-cooperation-with-local-chip-startup-horizon-robotics/?cn-reloaded=1

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Journey 5 is Adopted by Emerging EV Challengers Niutron and Hozon

NIUTRON NV

HOZON NETA U

- Niutron NV vehicle already launched with Journey 2 AI processors from Horizon
- It will be followed with Niutron models featuring Dual Journey 5 equipped vehicles with 12 cameras and 5 radars to reach L2++ supercomputing capabilities

- Hozon surging EV brand NETA launched several models with Journey 2 and will adopt Horizon Journey 5 for advanced automated driving in future versions

- **Journey 5:**
  - 3rd generation AI processor
  - Bayes dual-core BPU at 128 AI TOPS
  - ASIL B and Cybersecurity certified

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Journey 5 is Adopted by Top Domestic Brand Hongqi FAW Group

- Hongqi FAW group will use Journey 5 in several models of their FEEA 3.0EE architecture
- Advanced automated driving domain controller, equipped with multiple Journey 5 AI processors from Horizon
- Journey 5:
  - Bayes dual-core BPU at 128 AI TOPS
  - ASIL B and Cybersecurity certified

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Journey 2 and Journey 3 new deployments in series vehicles

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SAIC MAXUS MIFA 9 SUV Launches with Dual-Journey 3

- MIFA 9 launched on June 29, 2022
- Top luxury SUV
- Dual Journey 3:
  - 10 AI TOPS
  - 6 Watts
- UTOPILOT: Automatic driving solution for highway at Level2+ (on-off ramp, overtake, obstacle avoidance and more)
- Automatic Parking

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SAIC ROEWE RX5 Navigation Guided Pilot Powered by Three Journey3 SOCs from Horizon

- Roewe RX5 open for pre-orders on June 13th , 2022 and reached > 10,000 units in the first day !
- Super-sensing and intelligent SUV
- Three Journey 3 AI processors
  - 15 AI TOPS, less than 10 Watts
  - Passive cooling
  - 1266 FPS perception performance
- Horizon full Software stack
- Upgrade to Journey 5 in 2023
- NGP: Navigation Guided Pilot
  - 360° coverage. 28 sensors
  - Highway, urban expressway
  - On –off ramp, automatic lane change
  - Automatic parking

*SAIC Motor and Horizon have reached strategic cooperation to jointly develop the future ADAS and Autonomous Driving applications based on Horizon Journey AI processors. The next-generation of Roewe RX5, which is the 1st internet vehicle and has millions of customers, will be launched the middle of next year (2022) with 3*J3. SAIC devotes to create "the Strongest AI vehicle in China".*

–Yang Xiaodong , VP of SAIC group, GM of Passenger car

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Customer Value Creation Across all Models : Chang'An

Halo 2 In-cabin HMI

Horizon Robotics Journey® 2 AI Processor

1st Chinese automotive AI processor deployed on mass-produced vehicles

UNI-T

SOP 2020.6

Mono 2

Horizon Robotics Journey® 2 AI Processor

UNI-V DA

SOP 2022 Q1

UNI-T DA

SOP 2022 Q1

UNI-K DA

SOP 2022 Q3

Mono 3

Horizon Robotics Journey® 3 AI Processor

C385

SOP end of 2022

Rapid design-in and go-to-market

Cost effective solution

Increased sales of 30K cars in first 3m

Horizon Mono 2 ADAS replaced Tier1 front camera solution with better performance in:

- Object recognition distance and accuracy
- Recognition of China-specific vehicles, VRUs, and obstacles
- Lane detection and related functions
- Cut-in/cut-out performance

Adopted across UNI series models, and more to come

Horizon Mono 3 ADAS features:

- 8MP front camera of 120° FOV
- Timely reaction to close cut-in
- Easy handling of roads/ramps of high curvature
- Improved detection of small obstacles, such as traffic cones

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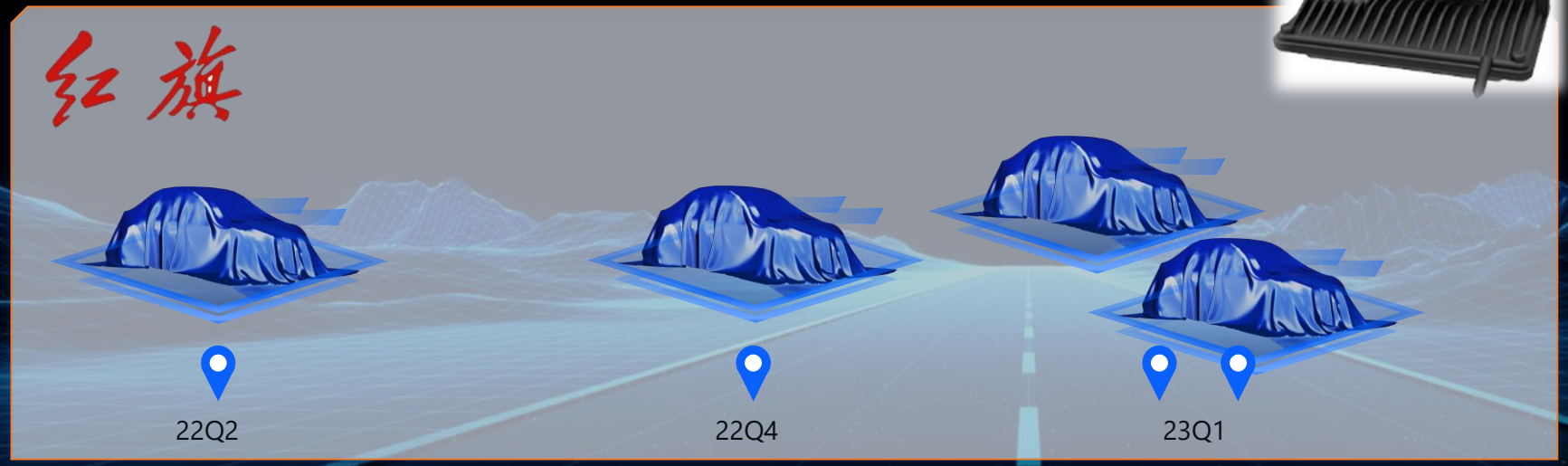
Customer Value Creation: FAW

Horizon Mono 2 ADAS solution features:

- High performance and robustness
- Algorithm optimized for China road conditions
- High power efficiency and cost effectiveness
- China domestic solution with supply guarantee



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Ecosystem partners news

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Hongjing Zhijia Reaches Strategic Cooperation With Horizon to Promote Mass Production of High-end Automated Driving Solutions

宏 景 智 驾

- Hongjing Zhijia was established in 2018 and formed an Intelligent Driving Innovation Center
- Awarded KPMG 2021 China leading automotive technology enterprise TOP50 and 2021 China Auto New Supply Chain Top 100 Technology Award for Autonomous Driving
- Develops a Full stack AD hardware and software, plus system integration capabilities
- Continues strategic development partnership started from Journey 2 and Journey 3 now onto Horizon Journey 5 AI processors

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Horizon Welcome New Mapping Partners AMAP.com, NAVINFO and BAIDU to its Growing Ecosystem

NAVINFO

Baidu 百度

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Horizon Announces Three Automotive IDH Partners for its Journey 5 Open AI Processing platform

Horizon thrive to expand its ecosystem of partners to provide more options to its customers and accelerate speed of development.

Independent Design House – IDH - provide support and services to both OEMs and Tier1s on Horizon Journey 5 open chip + toolchain platform, to shorten delivery cycle time.

On June 29, 2022, G-Pulse, TZTEK and Enjoy Move joined Horizon rich and fast expanding network of partners.

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LiDAR Technology Leader Robosense Reaches Partnership with Horizon

Robosense and Horizon join hands to develop integrated perception solutions for intelligent driving, leveraging Robosense RS-LiDAR-M1 LiDAR software and hardware technology and Horizon Journey 2 and Journey 3 Automotive grade AI processors

"This strategic partnership will form a greater joint force and empower the two companies to create more visionary intelligent driving product solutions for the industry"

Dr. Chunxin Qiu, Founder and CEO of Robosense

"Through this strategic partnership, the two companies will fully complement each other … jointly explore cutting-edge technologies and promote the mass production and large-scale implementation of pioneering intelligent driving solutions …to build a safer and better smart mobility experience"

Dr. Kai Yu, Founder and CEO of Horizon Robotics

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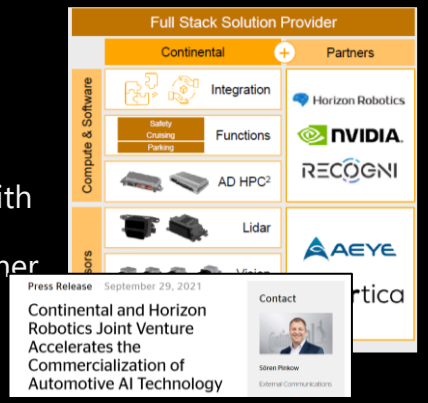
Global Automotive Players Strategically Partner with Horizon

Continental
Established a joint venture together with Horizon to develop high performance ADAS/AD solution with earliest customer SOP in 2022



To be Announced

Large global ODM
A very large, high volume ODM has partnered with Horizon to develop a production-ready Journey 5 vehicle compute center for next-gen intelligent software defined cars.

An announcement will be coming very soon …

ThunderSoft
Established a joint venture with Horizon to develop Intelligent Driving solution and provides algorithm & software services based on Horizon's AI processors

- The joint venture is positioned as Tier 1.5, providing software engineering services for Tier-1 and OEM customers.

More exciting partnerships will be announced soon

Stay tuned …

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China, the battleground for Automated Driving

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Chinese Consumers Show A Strong Desire for Intelligent Cars Functions

More Willingness to Pay

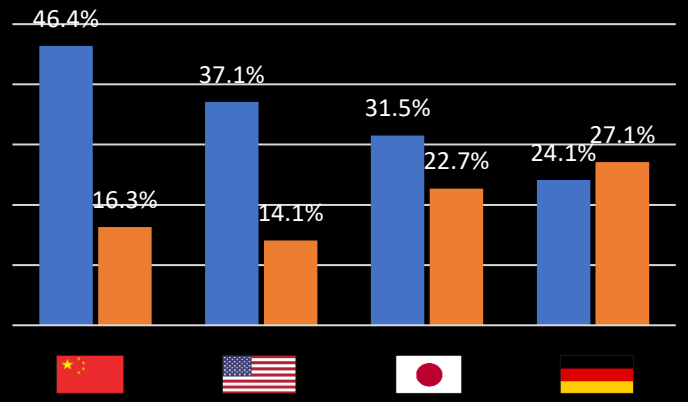
95%

Percentage of consumers willing to pay for AD in CN is 1.7x more than that in US

$4,600

High-end CN consumers are willing to pay $4600 for AD/ADAS, 1.2X than US

IHS Survey 2020: Percentage of respondents willing to own an autonomous driving vehicle



Accept – I would ride in a self-driving vehicle, and would purchase one

Hesitate – I would ride in a self-driving vehicle, but would not purchase

Challenging Road Conditions

18.1x

CN has 18.1x more cars on road than US

2.8x

CN has 2.8x higher accidents rate than US

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Auto-Parking: A Leading Use Case to Pave the Way to Domain Controllers Proliferation

Complex parking lots and street parking stimulates AVM (360 around view monitor by 4 fisheye cameras) adoption among Chinese Local OEMs:

- **90%** of vehicles >200k RMB are equipped with AVM
- **50%** of vehicles between 200k to 100k RMB are equipped with AVM

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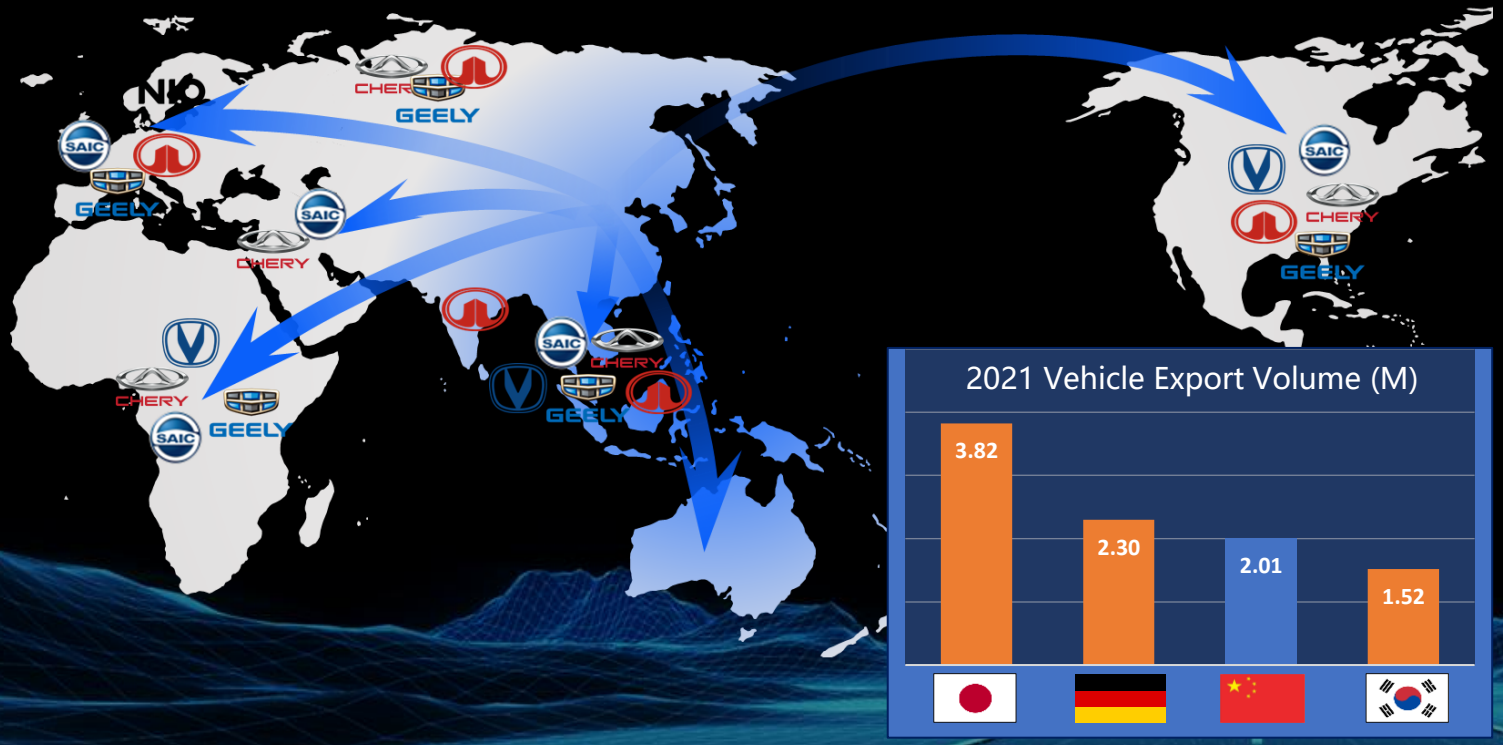
China is Set to Expand toward Global Markets

China was the world's 3rd largest vehicle export country in 2021 and is Expected to Surpass Germany by 2022



China's vehicle export is expected to surpass Germany in 2022, by guancha.cn

Traditional CN OEMs continue to grow overseas

2021 sales volume overseas:

SAIC 300k+, Chery 270k, Great Wall 140k+

New EV OEMs entering overseas market of developed countries, particularly Europe

China manufacturing and supply chain is less impacted by COVID

Chinese OEMs owns brands recognizable in global markets (e.g. Volvo, Polestar, Lotus)

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Algorithms Innovation

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Waymo Open Dataset Challenge 2022

Waymo Open Dataset Challenges 2022:

Horizon Robotics 3rd place in Challenge 1 and Honorable Mention in Challenge 2

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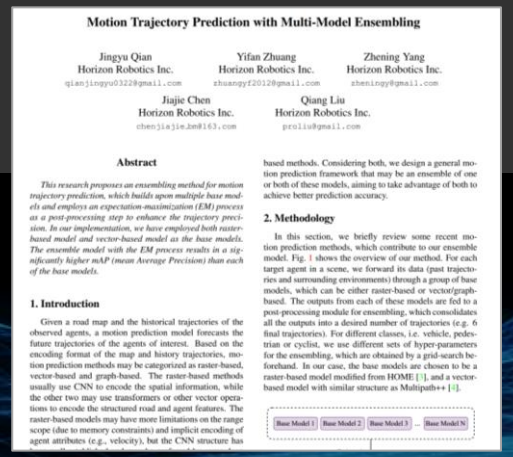
Horizon HOPE Neural Network Innovation

Challenge 1

Motion Prediction

Given agents' tracks for the past 1 second on a corresponding map, predict the positions of up to 8 agents for 8 seconds into the future.



Motion Trajectory Prediction with Multi-Model Ensembling

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Abstract

This research proposes an ensembling method for motion trajectory prediction, which builds upon multiple base models and employs an expectation-maximization (EM) process as a post-processing step to enhance the trajectory prediction. In our implementation, we have employed both raster-based model and vector-based model as the base models. The ensemble model with the EM process results in a significantly higher mAP (mean Average Precision) than each of the base models.

1. Introduction

Given a road map and the historical trajectories of the observed agents, a motion prediction model forecasts the future trajectories of the agents of interest. Based on the encoding format of the map and history trajectories, motion prediction methods may be categorized as raster-based, vector-based and graph-based. The raster-based methods usually use CNN to encode the spatial information, while the other two may use transformers or other vector operations to encode the structured road and agent features. The raster-based models may have more limitations on the range scope (due to memory constraints) and implicit encoding of agent attributes (e.g., velocity), but the CNN structure has

based methods. Considering both, we design a general motion prediction framework that may be an ensemble of one or both of these models, aiming to take advantage of both to achieve better prediction accuracy.

2. Methodology

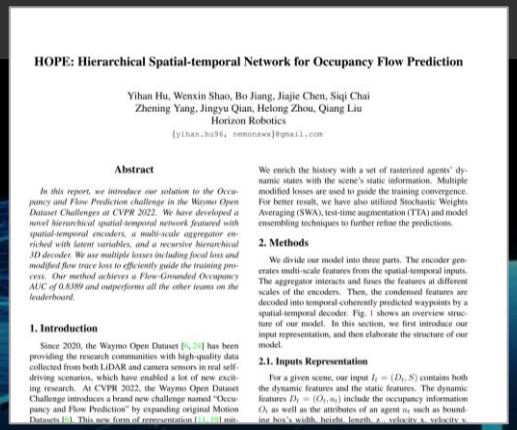
In this section, we briefly review some recent motion prediction methods, which contribute to our ensemble model. Fig. 1 shows the overview of our method. For each target agent in a scene, we forward its data (past trajectories and surrounding environments) through a group of base models, which can be either raster-based or vector/graph-based. The outputs from each of these models are fed to a post-processing module for ensembling, which consolidates all the outputs into a desired number of trajectories (e.g. 6 final trajectories). For different classes, i.e. vehicle, pedestrian or cyclist, we use different sets of hyper-parameters for the ensembling, which are obtained by a grid-search beforehand. In our case, the base models are chosen to be a raster-based model modified from HOME [3], and a vector-based model with similar structure as Multipath++ [4].

3rd place

Challenge 2

Occupancy and Flow Prediction

Given agents' tracks for the past 1 second on a corresponding map, predict the bird's-eye view (BEV) occupancy and motion flow of all currently-observed and currently-occluded vehicles for 8 seconds into the future.



HOPE: Hierarchical Spatial-temporal Network for Occupancy Flow Prediction

Yihan Hu, Wenxin Shao, Bo Jiang, Jiajie Chen, Siqi Chai, Zhening Yang, Jingyu Qian, Helong Zhou, Qiang Liu, Horizon Robotics, {yihan.hu96, nemonswx}@gmail.com

Abstract

In this report, we introduce our solution to the Occupancy and Flow Prediction challenge in the Waymo Open Dataset Challenges at CVPR 2022. We have developed a novel hierarchical spatial-temporal network featured with spatial-temporal encoders, a multi-scale aggregator enriched with latent variables, and a recursive hierarchical 3D decoder. We use multiple losses including focal loss and modified flow trace loss to efficiently guide the training process. Our method achieves a Flow-Grounded Occupancy AUC of 0.8389 and outperforms all the other teams on the leaderboard.

1. Introduction

Since 2020, the Waymo Open Dataset [6, 24] has been providing the research communities with high-quality data collected from both LIDAR and camera sensors in real self-driving scenarios, which have enabled a lot of new exciting research. At CVPR 2022, the Waymo Open Dataset Challenge introduces a brand new challenge named "Occupancy and Flow Prediction" by expanding original Motion Datasets [5]. This new form of representation [12, 20] pro-

We enrich the history with a set of rasterized agents' dynamic states with the scene's static information. Multiple modified losses are used to guide the training convergence. For better result, we have also utilized Stochastic Weights Averaging (SWA), test-time augmentation (TTA) and model ensembling techniques to further refine the predictions.

2. Methods

We divide our model into three parts. The encoder generates multi-scale features from the spatial-temporal inputs. The aggregator interacts and fuses the features at different scales of the encoders. Then, the condensed features are decoded into temporal-coherently predicted waypoints by a spatial-temporal decoder. Fig. 1 shows an overview structure of our model. In this section, we first introduce our input representation, and then elaborate the structure of our model.

2.1. Inputs Representation

For a given scene, our input $I_t = \{D_t, S\}$ contains both the dynamic features and the static features. The dynamic features $D_t = \{O_t, a_t\}$ include the occupancy information O_t as well as the attributes of an agent a_t such as bounding box's width, height, length, x velocity, y velocity, y

Honorable mention

HOPE: Hierarchical Space-Time Occupancy and Flow Prediction Network

Presented at CVPR 2022 Autonomous Driving Symposium

CVPR JUNE 19-24 2022 NEW ORLEANS • LOUISIANA

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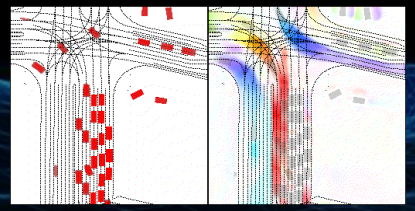
Horizon HOPE Neural Network Innovation

Horizon's **HOPE** hierarchical network takes on the challenge of reliable planning, by predicting future spatial occupancy grid and optical flow based on Bird's Eye View and achieves new level of precision.

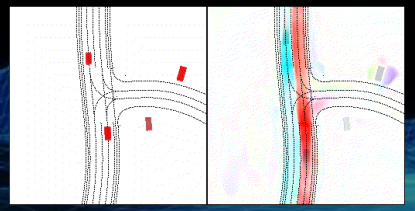
- 2D BEV representation
- Better uncertainty modelling
- Improved relationship between agents
- Occlusion predictability
- Transformer attention encoder
- Parallel processing of dynamic objects
- Compute efficiency

HOPE: Hierarchical Space-Time Occupancy and Flow Prediction Network

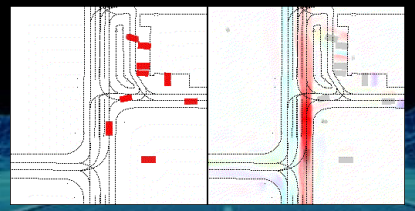
Presented at CVPR 2022 Autonomous Driving Symposium



Intersection



Unprotected left turn



Right turn

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Product news

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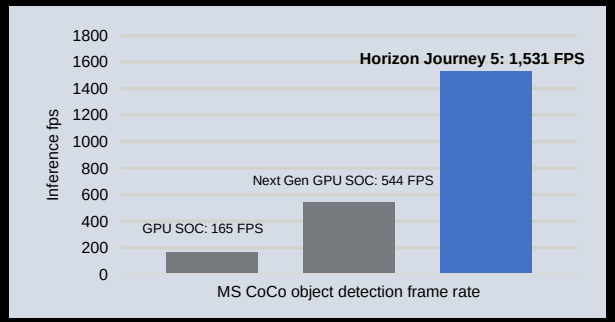
Journey® 5 Redefines Automotive Edge-AI Efficiency

Efficient AI. Accuracy, speed, low latency NN compute

1,531 FPS EfficientNet B0 + FCOS detector* on MS COCO

8MP perception at < 60ms latency

30W typical power



(*) Fully Conv one shot det. 512x512 input shape

Open and versatile, with rich connectivity

Mature toolchain and rich model Zoo

AD and Smart cockpit software solutions

Adopted by leading OEMs

Powerful AI-native processor

128 TOPS AI compute

2× BPU, 8× A55 CPU, 2× DSP, CV Engine/OF, 2x ISP, 4K Codec, HSM

Fulfill all scenario of intelligent vehicle computing

Safe. Secure. Reliable

ASIL B (D) – Safety island

SOTIF (ISO 21448)

ISO 21434 Cybersecurity

AEC-Q100 Grade 2

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Horizon Announces Journey® 5 PCIe card and SOM

Dual Journey 5 PCIe card

Single Journey 5 SOM

Horizon Robotics © 2022

Horizon Announces Single Journey 5 EVM Development Kit

Feature		Description
Processing performance		Single J5: 128 AI TOPS / 8 Cortex-A55 28K DMIPS / ISP / Codec / DSP
Fittings	Accessories required	J5 EVM standard kit (Including: MAX96712 daughter board, MAX9296 daughter board …
	Optional accessories	DS90UB960 , DS90UB954 , DS90UB934, Camera modules …
Storage		LPDDR4 4G / 16G eMMC / 32MB SPI NOR / 256MB SPI NAND Flash / MicroSD
Use case		Low-cost flexible evaluation board with single J5 suitable for algorithm evaluation, software development, algorithm development, vehicle test, desktop development scenarios。

Up to 12 Camera

Horizon Robotics © 2022

Matrix® 5 All-Scenario Intelligent Vehicle Computing Center

Extreme AI Performance

Bayes BPU, Four Journey 5s, up to 512 AI TOPS

8× BPU, 32× CPU, 8× DSP, 4× CV Engine + ISP,

Video Codec, Crypto acceleration

Fulfill all scenario of intelligent vehicle computing

Open and flexible. Easy to use

Rapid development and customization of mass production hardware

Optional GPU/5G modules

Easily adaptation to Horizon middleware and algorithms

Rich interface and high-speed connectivity

Up to 32 camera. 8 MP

4D imaging radar, LiDAR, ultrasonic, microphone array

10 Ethernet ports (one 10GbE port)

Safety and security architecture

Four ASIL-B Journey 5. Two ASIL-D MCUs.

Dual power supply

Dedicated information security module, support for acceleration of security algorithms

- HW crypto; Secure Boot; Secure keys; Secure Data and AI model; Secure Comm

Continental · Neusoft REACH · LuXshare · LCKT

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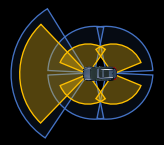
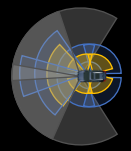
Announcing Journey 5 and Matrix 5 HW Reference Platform + Driving Software

The Most Affordable Advanced Autonomy Solution for Series Production Vehicles



Matrix® Pilot 5
Assisted Driving Solution

8M and 2M, 6-11x cameras
15-128 AI TOPS
Highway pilot-assisted driving



Matrix® SuperDrive 5
Automated Driving Solution

8M and 2M, 12-19 cameras
256-512 AI TOPs
Highway and urban automated driving

Unified Architecture	Scalability	Advanced AI Perception	Mapping, Prediction, & Planning	Robust Safety & Cybersecurity

Matrix® 5
Production Tailored Hardware Reference Platform

Journey® 5 SoC
Most Cost Competitive SoC among the 100+ TOPs Class

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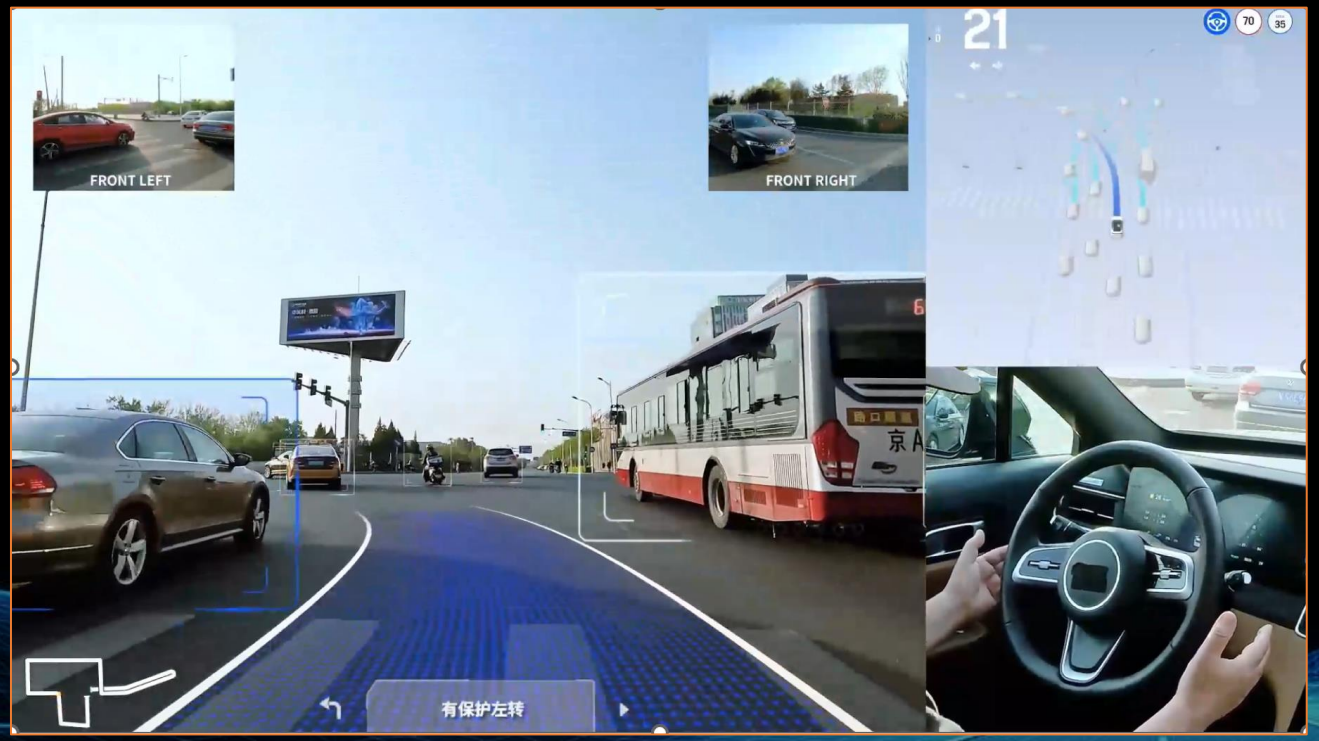
Releasing Horizon Matrix® SuperDrive Urban BEV Demo



Contact your Horizon sales associate for a demo

Matrix 5 board with Journey 5 AI processors
11x camera installed, 6x cameras for driving demo
1x LiDAR, 5 Radars
HD Map for localization
Prediction and planning

BEV / Vector space
Detection: Vehicles, pedestrians, bike, bicycles, lanes, road boundaries, markings, signs …
Use case: negotiation with VRUs, cut-ins, change lane, left turn

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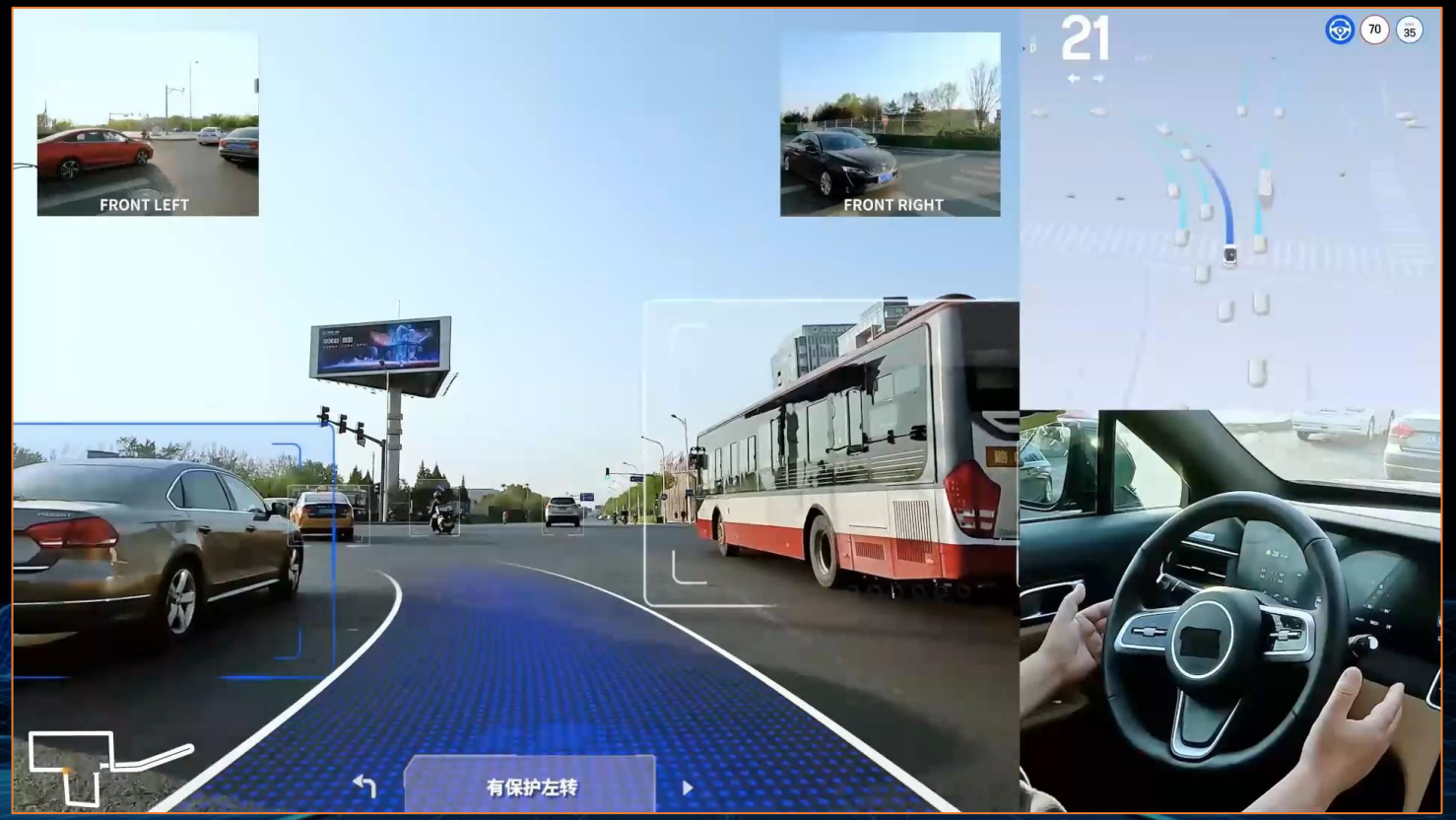
Journey 5 Urban BEV Video Demo Part1



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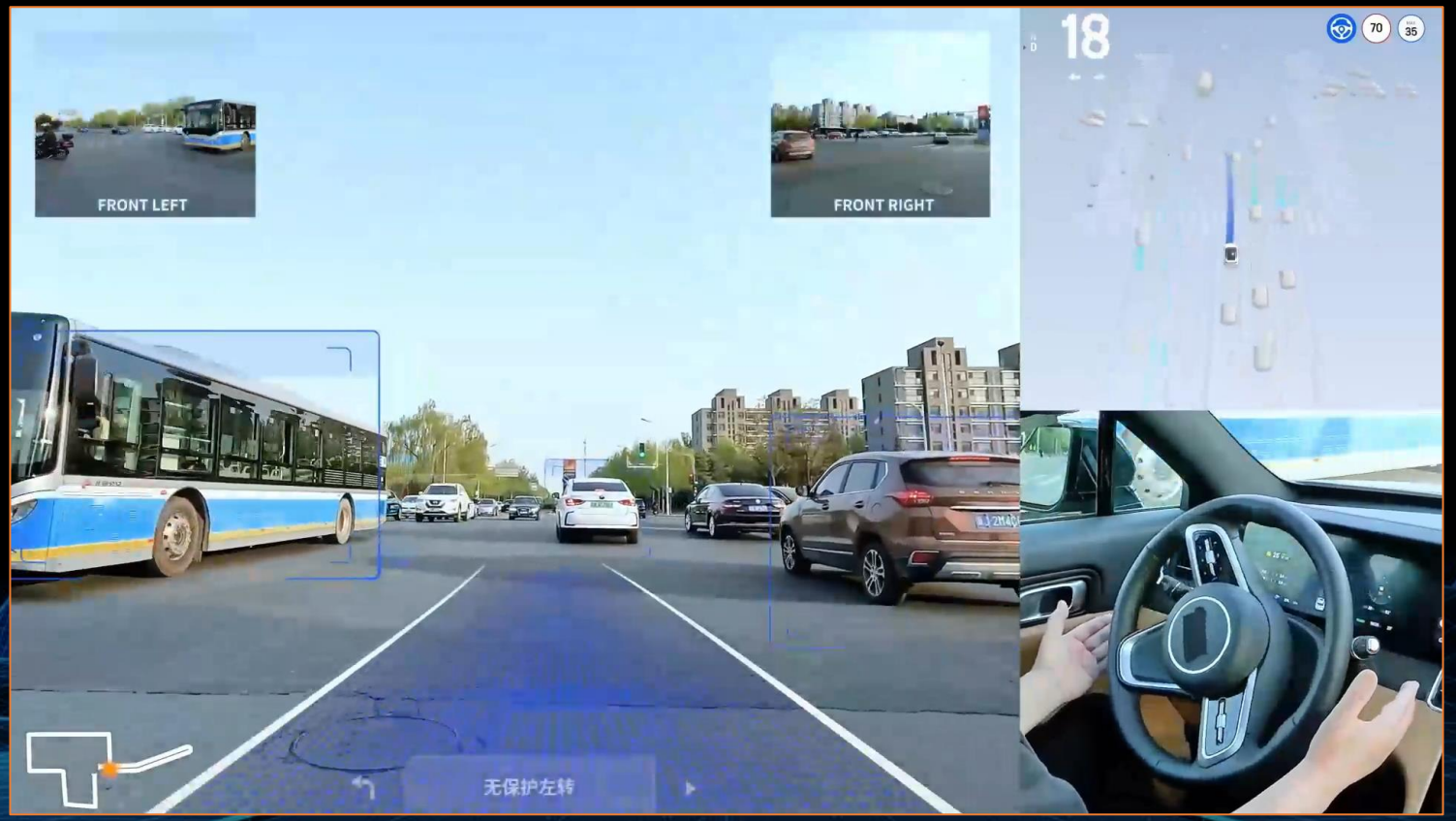
Journey 5 Urban BEV Video Demo Part2



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Technology Milestones

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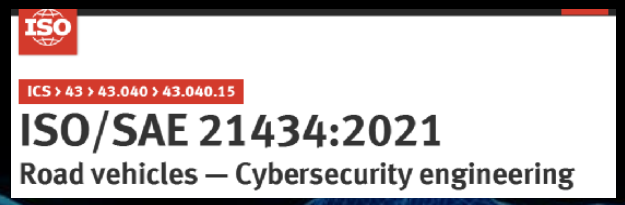
Horizon Achieves ISO/SAE 21434 Automotive Network Security Certification



Certificate

Cyber Security Management

Automotive CS Management (TÜV Rheinland)
ISO/SAE 21434 - Automotive Tier Supplier
ACSM 101, Maturity Level 2: Managed

Certificate No. 968/ACSM 101.00/22

Certified Company & Location: Beijing Horizon Robotics Technology Research and Development Co., Ltd. IC PARK, NO. 9 Fenghao East Road, Haidian District Room 302, Unit 1, F3, Building NO. 2 100094 Beijing P.R. China

地平线 Horizon Robotics

Scope of Certification: Automotive Tier Supplier according to ISO/SAE 21434:2021 - Road Vehicles-Cybersecurity Engineering based on
Clause 4 - General Considerations
Clause 5 - Organizational Cybersecurity Management
Clause 6 - Project dependent Cybersecurity Management
Clause 7 - Distributed Cybersecurity Activities
Clause 8 - Continual cybersecurity activities
Clause 9 - Concept
Clause 10 - Product development
Clause 11 - Cyber security validation
Clause 12 - Production
Clause 13 - Operation of maintenance
Clause 14 - End of cybersecurity support and decommissioning
Clause 15 - Threat analysis and risk assessment methods

Achieved Maturity Level: ML2 - Managed

The Certified Company has successfully demonstrated during an audit process that an Automotive Cybersecurity Management System has been defined and implemented.

Purpose of the audit is to obtain evidence of compliance with the organizational requirements related to Automotive Cybersecurity Management Processes according to the Scope of Certification.

This ACSM Certification only refers to the listed company location and their involved departments, which comply with the organizational requirements for the listed Scope of Certification. It does not replace any kind of product specific confirmation measures including product specific audits, assessments or according certifications.

Validity: This certificate is valid until 2023-04-20

TÜV Rheinland Industrie Service GmbH
Bereich Automation
Funktionale Sicherheit
Am Grauen Stein, 51105 Köln

Cologne, 2022-04-20

Dr.-Ing. Thorsten Gantevoort

TÜV Rheinland Industrie Service GmbH Automation and Functional Safety Am Grauen Stein 51105 Cologne - Germany

Certification Body Safety & Security for Automation & Grid
Further information referring to the scope of certification, see http://www.tuvasi.com

www.fs-products.com
www.tuv.com

TÜVRheinland® Precisely Right.

On April 20th, 2022, Horizon Robotics has achieved the coveted ISO/SAE 21434:2021 maturity level2 certification for the development process of its automotive grade Journey AI processor, delivered by TUV Rheinland.

Horizon automotive solutions will gain further security certification such as FIPS 140-3 level2 and China CC EAL3+ in a near future. Stay tuned !

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Horizon Reaches Automotive SPICE® CL2

On April 12th, 2022, Horizon Robotics has received its Automotive SPICE® Capability Level 2 certificate, for its Mono Intelligent Driving Environment Perception project, delivered by SGS.

This achievement marks a significant milestone for Horizon, to pass the high bar of international software development standards.

With its high-standard QMS, Horizon intelligent driving product and solution software development process meets the stringent quality level of global Automotive OEMs and Tier1s.

Certificate No: WTI-ASPICE-2022-053.AC

CONFIRMATION OF ACHIEVED

Automotive SPICE® Capability Level 2

地平线 Horizon Robotics

北京地平线机器人技术研发有限公司

Beijing Horizon Robotics Technology Research and Development Co., Ltd.

PDT-环境感知-Mono Project

Used Process Assessment Model: Automotive SPICE version 3.1

Assessment Attributes acc. to ISO/IEC 33002:2015 Class 3 Type A

Automotive SPICE Process Capability Profiles

Capability Level

MAN.3 SYS.2 SYS.3 SYS.4 SYS.5 SWE.1 SWE.2 SWE.3 SWE.4 SWE.5 SWE.6 SUP.1 SUP.8 SUP.9 SUP.10

See the technical report WTI-ASPICE-2022-053.TR for further information.

Assessment Site: Beijing Date: 2022.03.28~31 Issued Date: 2022.04.12

Worthy 亚远景科技

Hu (Gery) Hao

iNTACS ID: CN21--23293-02

Automotive SPICE lead Assessor

SGS

ASPICE CL2 certificate jointly issued by Worthy (Asia Vision Technology) and SGS for Horizon

https://mp.weixin.qq.com/s/m0oO_hhdVjXMU76buhl_Jg

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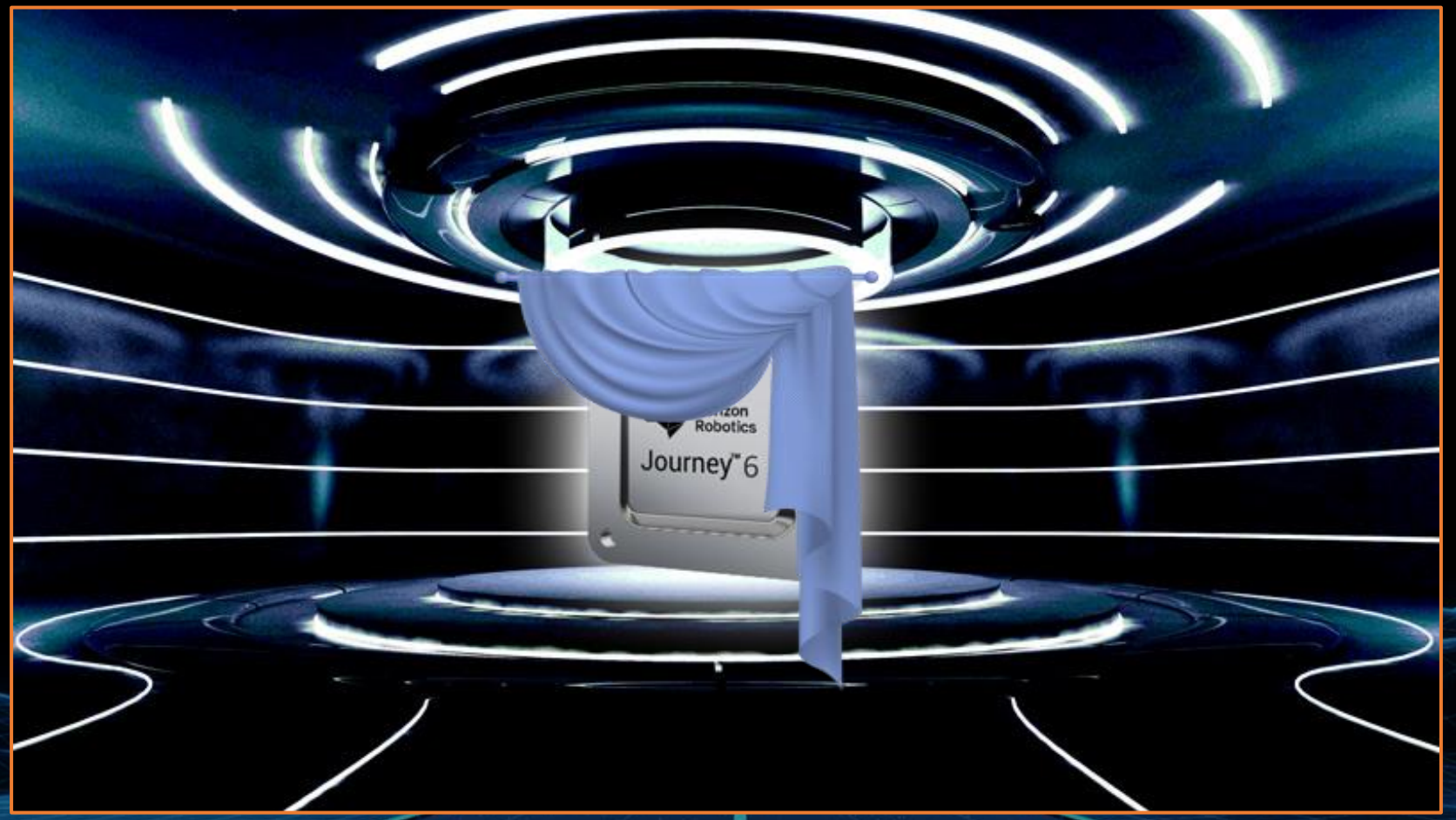
Next generation AI processor

Horizon Robotics © 2022

Coming Soon ...



Horizon Highest Performance AI Processor Ushers into the Era of Highly Integrated and Intelligent Central Computing for Software Defined Vehicles

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