



# Welcome – Sept. 24

Jeff Bier

Edge AI and Vision Alliance

September 2020



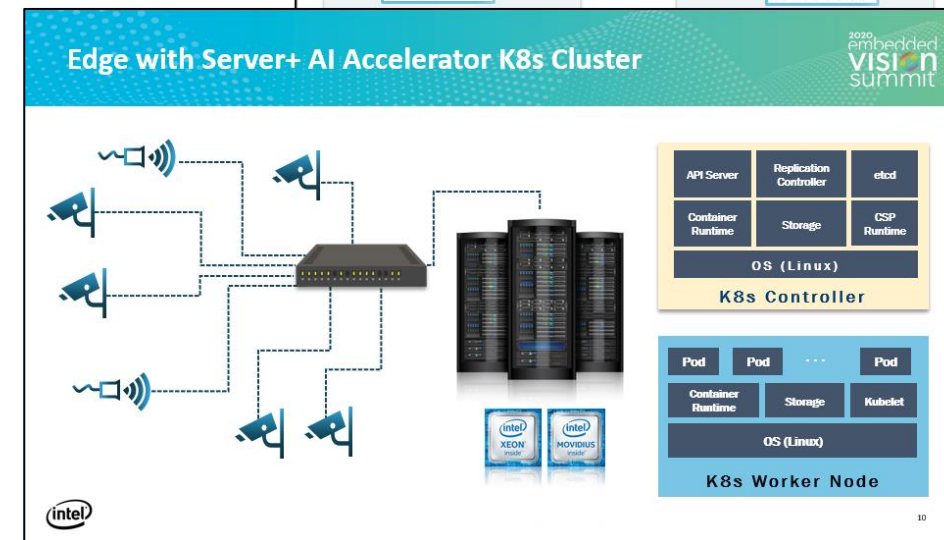
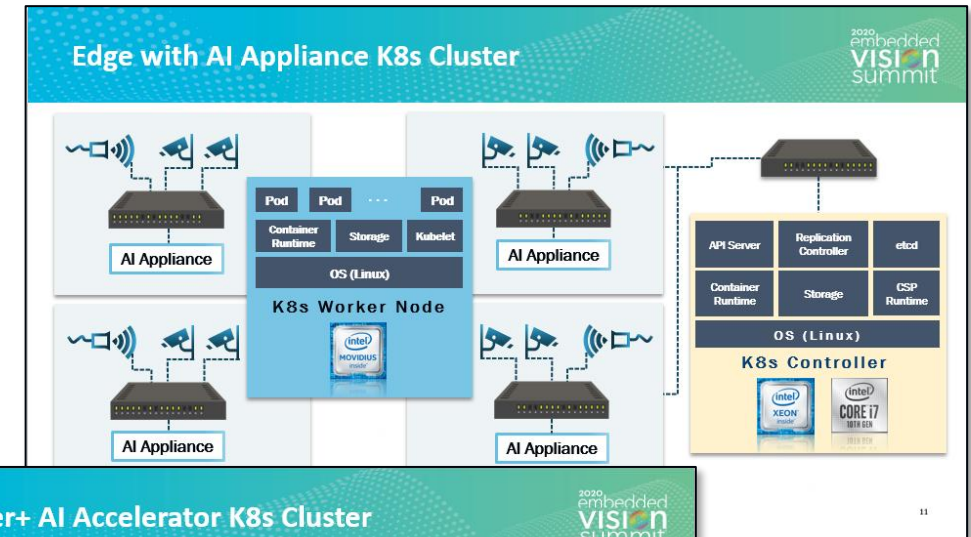
edge ai + vision  
**ALLIANCE**

# Thank You!

thanks

# Vaidy Krishnamoorthy – Intel: Many Types of Edge Computing

- “Edge computing” is not one thing
- It incorporates everything from smart cameras to on-premise servers
- Cloud computing tools, like Kubernetes, are increasingly useful at the edge



Source:  
Vaidy Krishnamoorthy, Intel



# Talks Related to Edge-Cloud Interplay

## ENABLING TECHNOLOGIES

### Qualcomm AI leading the way with Distributed Intelligence



**Ziad Asghar**  
Qualcomm

🕒 11:00 AM - 11:30 AM PDT

PROCESSORS



## TECHNICAL INSIGHTS

### Multi-modal Re-identification: IOT + Computer Vision for Residential Community Tracking



**Kit Thambiratnam**  
Seedland

🕒 1:30 PM - 2:00 PM PDT

ALGORITHMS

DEEP NEURAL NETWORKS

APPLICATIONS

## BUSINESS INSIGHTS

### How 5G is Pushing Processing to the Edge



**Dan Picker**  
Inseego Corp

🕒 1:30 PM - 2:00 PM PDT

MARKETS

BUSINESS



## BUSINESS INSIGHTS

### Using Learning at the Edge to Deliver Business Value



**Vera Serdiukova**  
LG

🕒 9:30 AM - 10:00 AM PDT

DEEP NEURAL NETWORKS

BUSINESS



## TECHNICAL INSIGHTS

### Parallelizing Machine Learning Applications in the Cloud with Kubernetes: A Case Study



**Rajy Meeyakhan Rawther**  
AMD

🕒 1:00 PM - 1:30 PM PDT

TOOLS

APPLICATIONS



# Find the Talks Most Relevant to Your Interests

The screenshot displays the agenda interface for the 2020 Embedded VISION Summit. At the top, there are tabs for 'TUE SEP 22' and 'WED SEP 23'. Below these, a search panel is open, showing a search bar with the text 'Search', a toggle switch for 'All terms must match', and a list of filter categories: Name, Description, Track or Format, and Keywords. The 'Keywords' section is expanded, showing a grid of tags including Applications, Processors, Deep neural networks, Tools, Algorithms, Business, Data, Efficient implementation, Standards, Markets, Sensors, Accuracy, Benchmarks, and Cameras. In the background, a talk titled 'Using Learning a Deliver Business' by Vera Serdiukova is visible, with a time slot of 9:30 AM - 10:00 AM PDT and tags for 'DEEP NEURAL NETWORKS' and 'BUSINESS'.

Search

☒ All terms must match

► Name

► Description

► Track or Format

▼ Keywords

Applications Processors

Deep neural networks Tools

Algorithms Business Data

Efficient implementation Standards

Markets Sensors Accuracy

Benchmarks Cameras

**TUE**  
SEP 22

**WED**  
SEP 23

**BUSINESS INSIGHTS**

**Using Learning a Deliver Business**

**Vera Serdiukova**  
LG

🕒 9:30 AM - 10:00 AM PDT

DEEP NEURAL NETWORKS BUSINESS

< Click in the **Search** box to open the search panel.

< Select one or more **Keywords** to filter the agenda

# Today's Schedule

9:00-10:30 am PT

**Opening Remarks, Presentations and Q&As**

10:30 am-1:00 pm PT

**Product Presentations and Q&A Sessions**

1:00-2:00 pm PT

**Presentations and Q&As**

**Don't miss the exhibit booths!**

Download exhibitor product info, request a meeting, or click the **Request Info** button to get your questions answered by exhibitors.



# Exhibitors

2020  
embedded  
VISION  
summit



# Finding Exhibitors

The screenshot displays the website for the 2020 Embedded Vision Summit. The top navigation bar includes links for Home, Schedule, People, Sponsors, Exhibitors, Conversations, Summit Rewards, Upgrade, Support, and Account. A search bar is located in the top right corner. Below the navigation bar, a grid of exhibitor cards is shown, organized into three rows (A, B, and C). Each card features the company logo, name, and a list of roles (e.g., Intel Partner, Alliance Member, Exhibitor, Gold Sponsor). A sidebar on the right side of the grid provides search and filter options. The search bar includes a 'GO' button and a toggle for 'All terms must match'. The filter section lists various categories and tags, such as 'Software and Algorithms', 'ICs and SoCs', 'Development Tools', 'Cameras', 'Silicon IP', 'Design and Manufacturing Services', 'Processor Boards & Modules', 'Image and Video Data', 'Camera Modules', 'Sensors', 'Standards', 'Market Research', 'Strategic Consultancy', 'Mergers and Acquisitions Advisory', 'Lenses', 'Open Source', 'Illumination', and 'Memory'.

2020 embedded  
**VISION**  
summit

Home Schedule People Sponsors Exhibitors Conversations Summit Rewards Upgrade Support Account

A

algolux  
Algolux  
INTEL PARTNER ALLIANCE MEMBER EXHIBITOR

AMD  
AMD  
ALLIANCE MEMBER EXHIBITOR

Arrow Electronics  
Arrow Electronics  
GOLD SPONSOR

Avnet fea  
Avnet fea  
GOLD SPONSOR

B

BDTi  
BDTi  
GOLD SPONSOR ALLIANCE MEMBER

brainchip  
Brainchip  
ALLIANCE MEMBER EXHIBITOR

C

cadence  
Cadence Design Systems  
GOLD SPONSOR ALLIANCE MEMBER

CEVA  
CEVA  
ALLIANCE MEMBER EXHIBITOR

Chips Media  
Chips&Media, Inc.  
ALLIANCE MEMBER EXHIBITOR

Codepla  
Codepla  
ALLIANCE MEMBER

Search GO

All terms must match

Type

Live Chat

Description

Name

Markets Served

Products or Services Provided

Software and Algorithms

ICs and SoCs Development Tools

Cameras Silicon IP

Design and Manufacturing Services

Processor Boards & Modules

Image and Video Data

Camera Modules Sensors

Standards Market Research

Strategic Consultancy

Mergers and Acquisitions Advisory

Lenses Open Source


Illumination Memory

< Search by **Keyword**

< Filter by **Tags**




# Connecting with Exhibitors



HomeSchedulePeopleSponsorsExhibitorsConversationsSummit RewardsUpgradeSupportAccount

Request Info From Exhibitor earn 50 points. Download Exhibitor Sponsor Files earn 15 points.



Horizon Robotics

Horizon Robotics

WANT TO MEET

REQUEST INFO

ALLIANCE MEMBER

EXHIBITOR

VISION PRODUCT OF THE YEAR AWARD WINNER

Horizon robotics is a leader in edge-AI who offers a high performance, low power and low latency integrated Hardware and Software AI computing platform. Our AI platform is open and enables levels of AI efficiency for autonomous machines not possible with CPU, GPU or FPGA. Check our award winning Journey AI processor and Matrix compute system. Or let's talk about our 360 degree and in-cabin perception algorithms and our AI Toolchain. Horizon booth is open during the 10.30am-1pm timeslot as well as after hours for our Asian and European partners.

Please join us for a chat in our virtual booth! Thank you.

- Click the "Request Info" button at the top of the page to message the booth or request more information.
- Click the profile pictures on the upper right side of this page to schedule a meeting with a company representative.
- Click the "Enter Live Chat" button (when booths are staffed) to speak with representatives by video.

Markets Served

AUTOMOTIVE

ROBOTICS

SEMICONDUCTOR

Products or Services Provided

PROCESSOR BOARDS & MODULES

ICS AND SOCS

SOFTWARE AND ALGORITHMS

Fred Cohen  
Director, Product Marketing, Automotive

Jefferson Kim  
Korea Business Development

Will L  
Director of Product Planning and Marketing

Shen L  
Director of Business Development Japan

George Totolos  
Business Development Manager

David Wang  
System Architect

Xingshi Wang  
Field Application Engineer Team Lead

Discussion

NEW CONVERSATION

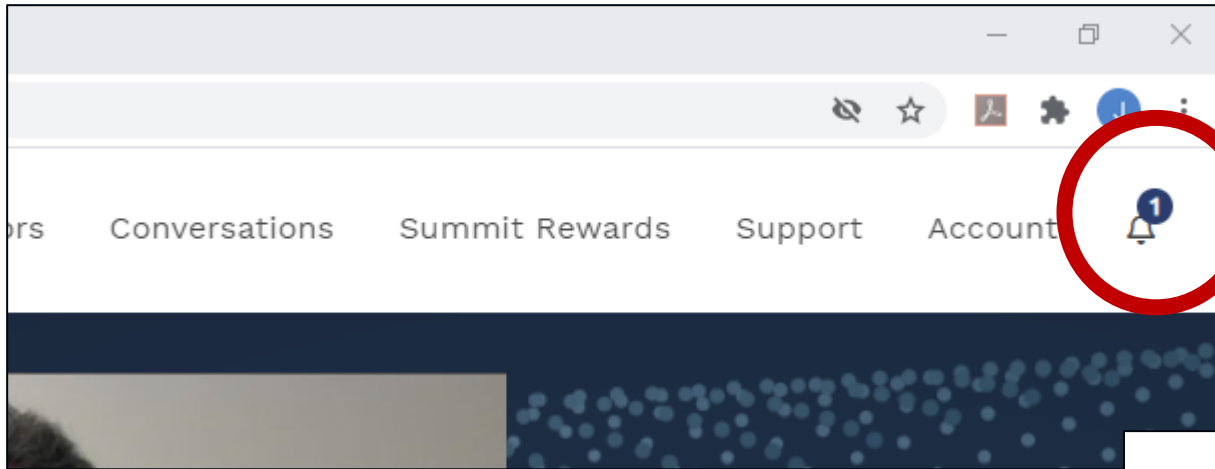
< Click the **Request Info** button to get your questions answered by exhibitors.

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ALLIANCE

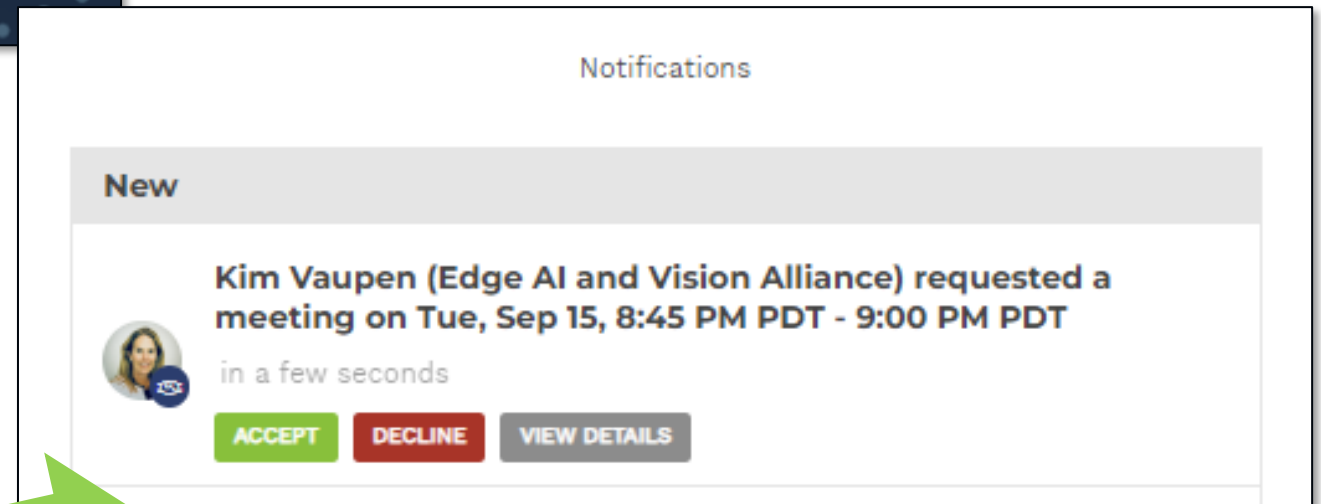
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9

# Check for Meeting Invitations and Messages



Number on bell icon  
means new invitations,  
messages or notifications

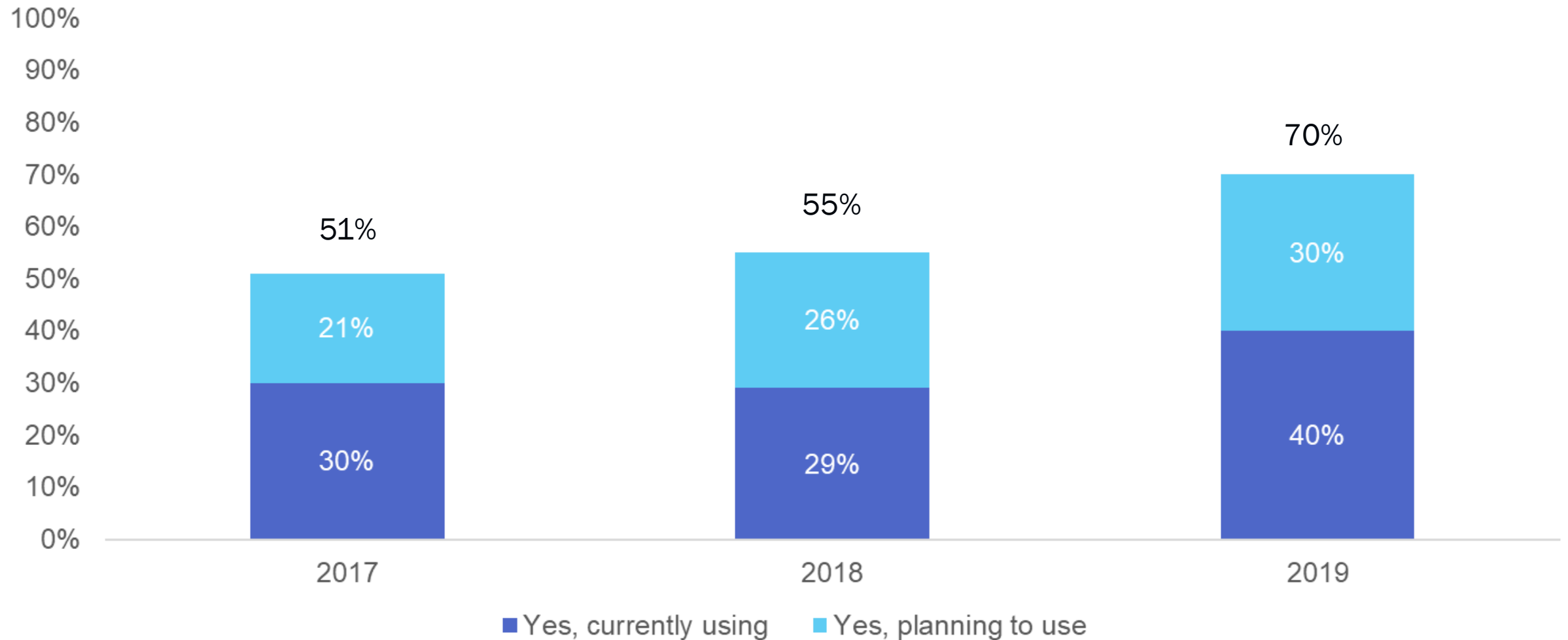




# **Market Research, Industry Trends and Technology Trends**

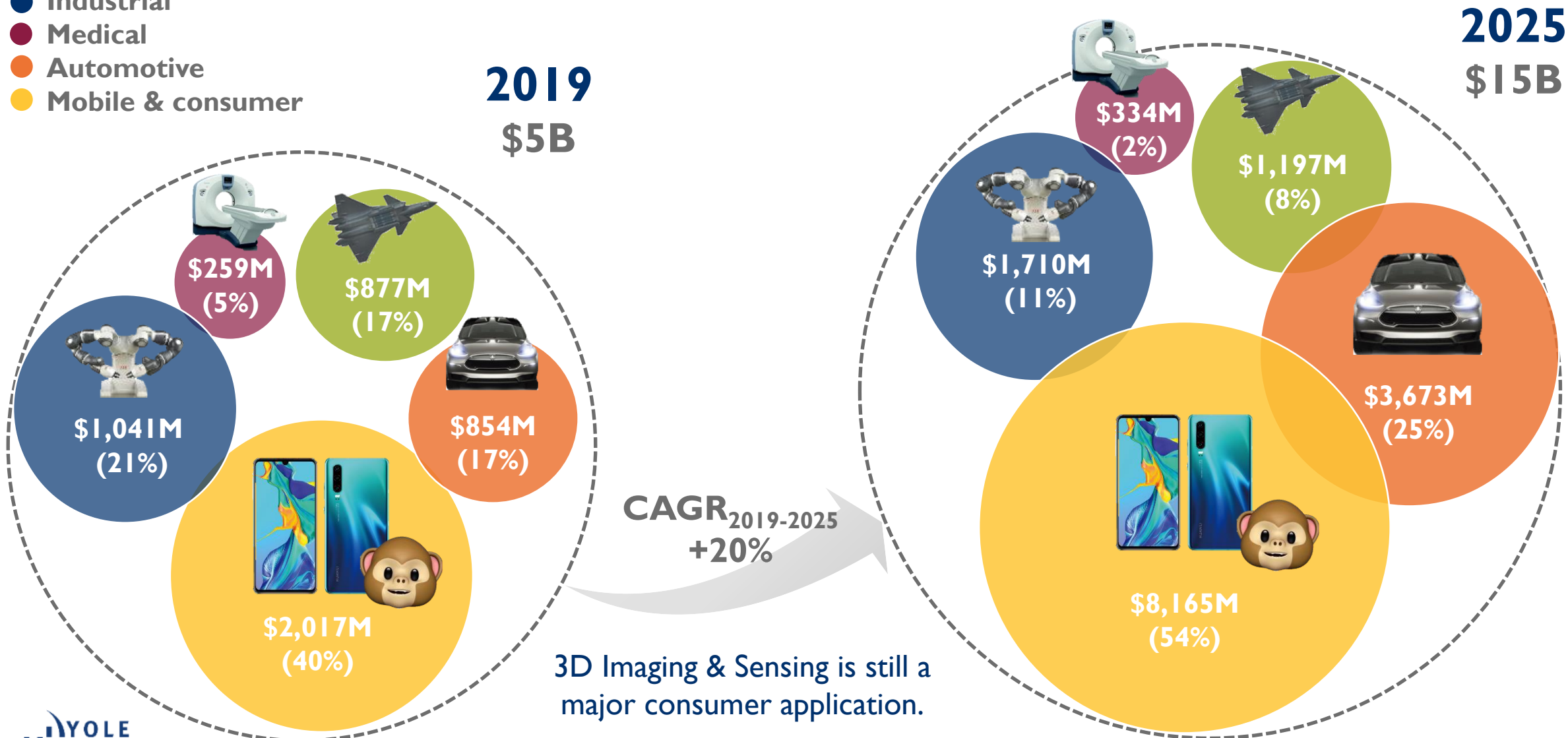


# Use of 3D Perception in Products



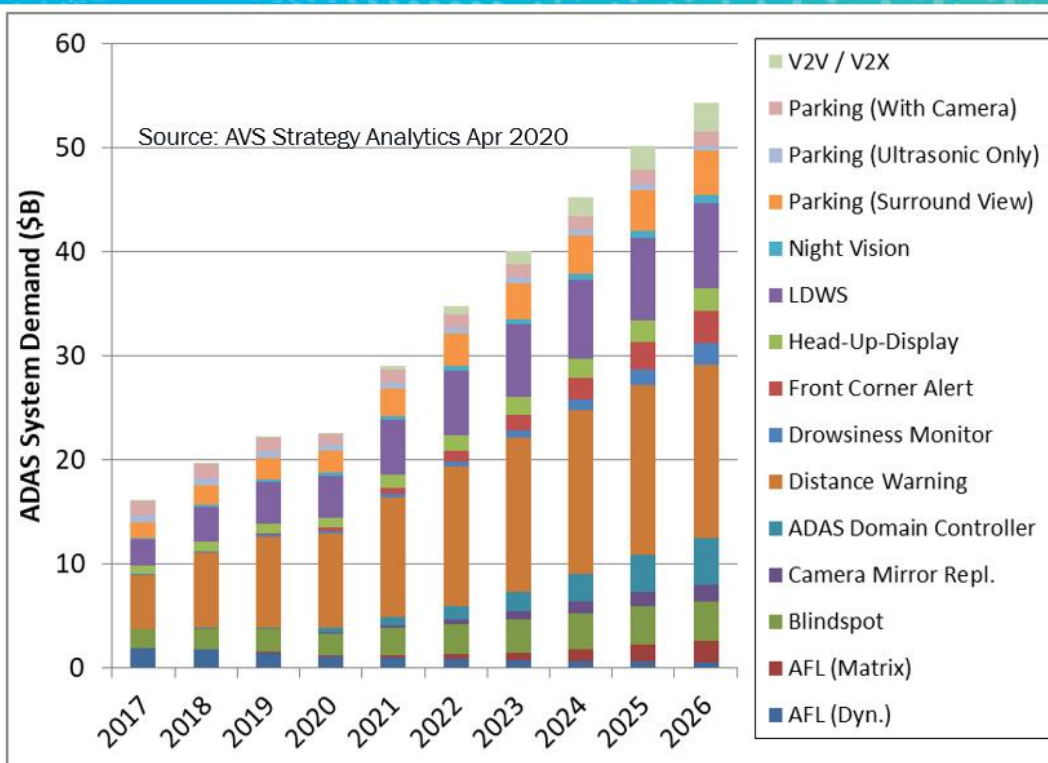
# 3D SENSING AND IMAGING - 2019-2025 MARKET FORECAST (IN \$M)

- Defense & aerospace
- Industrial
- Medical
- Automotive
- Mobile & consumer



# Curated Market Research

## Global adas demand \$54B by 2026



STRATEGY ANALYTICS

© 2020 Strategy Analytics

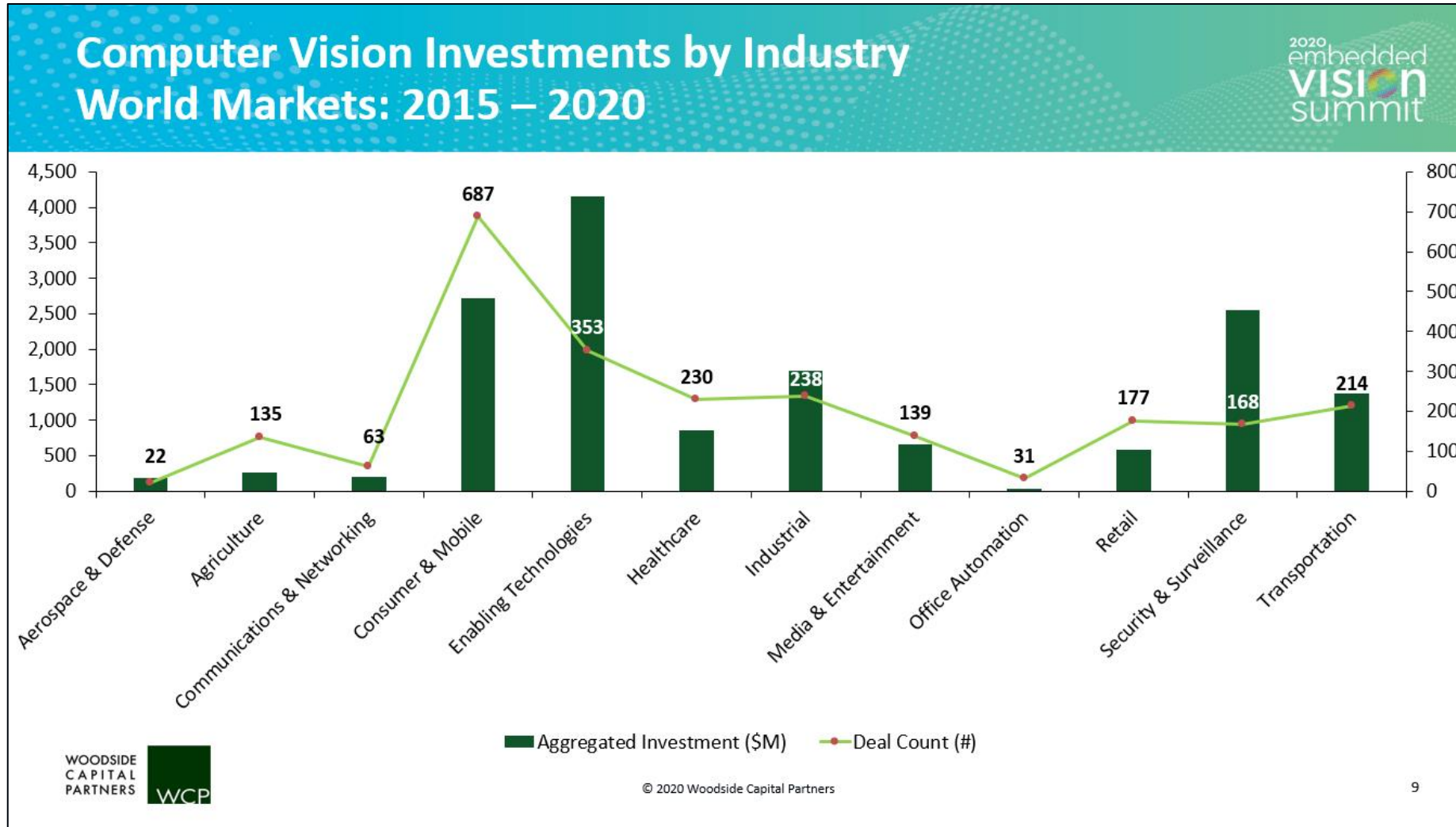
- Best combination of growth/size remains in Distance Warning
- **AEB** is the key feature in that category
- V2X forecast reduced in latest update
- AFL = Adaptive Front Lighting

8

Source:  
Mark Fitzgerald,  
Strategy Analytics



# Investment Trends



9

Source:  
Rudy Burger,  
Woodside Capital Partners

# Industry Trends

## Big Tech Transforming Healthcare (2/2)

The healthcare industry presents tremendous business opportunity, encouraging other top tech companies to adopt healthcare innovation



- Launched **health care division** in 2017 that focuses on **AI for patient care improvement**
- Alliance with Walgreens to develop **new health care innovations**
- Offering **healthcare focused solutions** through Azure suite



- Collaborative research on applying **AI to MRI scans**
- Acquires **neural interface startup** CTRL-Labs for its mind-reading wristband
- Plans to launch **"Preventive Health"** tool to prompt users to get regular checkups



- Acquired **predictive healthcare** technology business of BioSensics
- Bought **seniors-focused health services** company Critical Signal Technologies and GreatCall, emergency concierge & monitoring services provider



- Acquired Auris Health's **robotic platform technology** used in diagnostic and lung therapeutic procedures
- Partnered with accelerator Founders Factory with focus on startups in the **consumer healthcare space**



- Intel Capital invested in Lumiata, which improves quality of hospital care through **data and predictive analytics**
- Invested in EchoPixel, which is developing tools to enable **non-invasive colon cancer screening**



- Launched Uber Health: **non-medical-emergency transportation service**

Source: Microsoft, Becker's Hospital Review, The Verge, Telegraph, Company Websites

WOODSIDE  
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22

Source:  
Vini Jolly,  
Woodside Capital Partners


# Vision in Health and Wellness

**ENABLING TECHNOLOGIES**

## Enabling Embedded AI for Healthcare

**Shang-Hung Lin**  
Verisilicon

🕒 12:00 PM - 12:30 PM PDT




APPLICATIONS

+

**BUSINESS INSIGHTS**

## Vision Opportunities in Healthcare

**Vini Jolly**  
Woodside Capital


🕒 1:00 PM - 1:30 PM PDT

MARKETS

+

**TECHNICAL INSIGHTS**

## A Computer Vision-Based Personal Trainer That Runs On Your Phone

**Roland Memisevic**  
Twenty Billion Neurons

🕒 1:00 PM - 1:30 PM PDT

DATA

DEEP NEURAL NETWORKS

APPLICATIONS

+





# Post-Event Access

# Ongoing Access to the Embedded Vision Summit

- Exhibit booths will be accessible until December 11, 2020
- Presentation content will remain accessible until March 12, 2021
  - Videos
  - Slides
- Messaging functionality will be available until March 12, 2021



# Beyond the Summit



# For System and Application Developers

- *Edge AI and Vision Insights* newsletter
- [www.edge-ai-vision.com](http://www.edge-ai-vision.com) – Main Alliance website
  - Hundreds of presentations and articles
  - Embedded Vision and Visual AI Industry Map
  - Industry news
- Webinars
- Training classes



# Edge AI and Vision Alliance Members

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# Thanks to Our Sponsors!

## PREMIER



## GOLD



## SILVER



## SPECIAL EVENT

