

Visible-Short Wave  
Infrared Imaging



**EYE4NIR**

The background of the slide features two futuristic robots. They have white and black bodies with glowing blue eyes that resemble concentric circles. The robots are positioned on the left and right sides of the frame, looking towards the center.

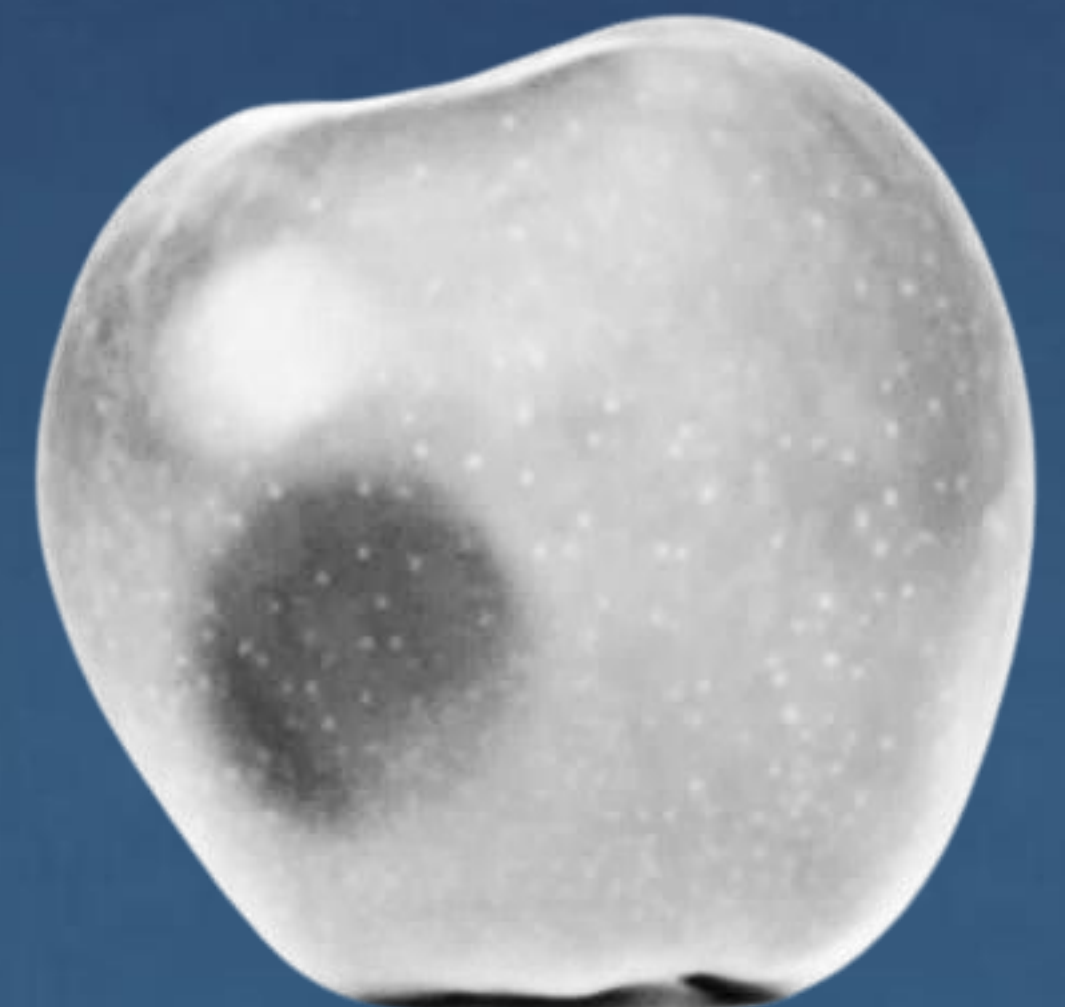
# EXTENDED PERCEPTION

Enabling a new era of physical AI  
expanding vision capabilities at the  
sensor level.





# SUPERHUMAN VISION



VISIBLE

INFRARED





# Value starts in **INFRARED**

UV

VISIBLE

NIR

**SWIR**

THERMAL IR

Quality Control

Critical Visibility conditions



# TWO CAMERAS for ONE JOB



## VISIBLE Only

Silicon

HIGH Volume Market

1-100€



## INFRARED Only

InGaAs

Niche Market

10.000-20.000€



UV

VISIBLE

NIR

SWIR

THERMAL IR

# ONE SENSOR. TWO SPECTRA. **BREAKTHROUGH COST.**



## VISIBLE Only

Silicon

HIGH Volume Market

1-100€



VISIBLE+SWIR

HIGH Volume

10-150€



## INFRARED Only

InGaAs

Niche Market

10.000-20.000€



UV

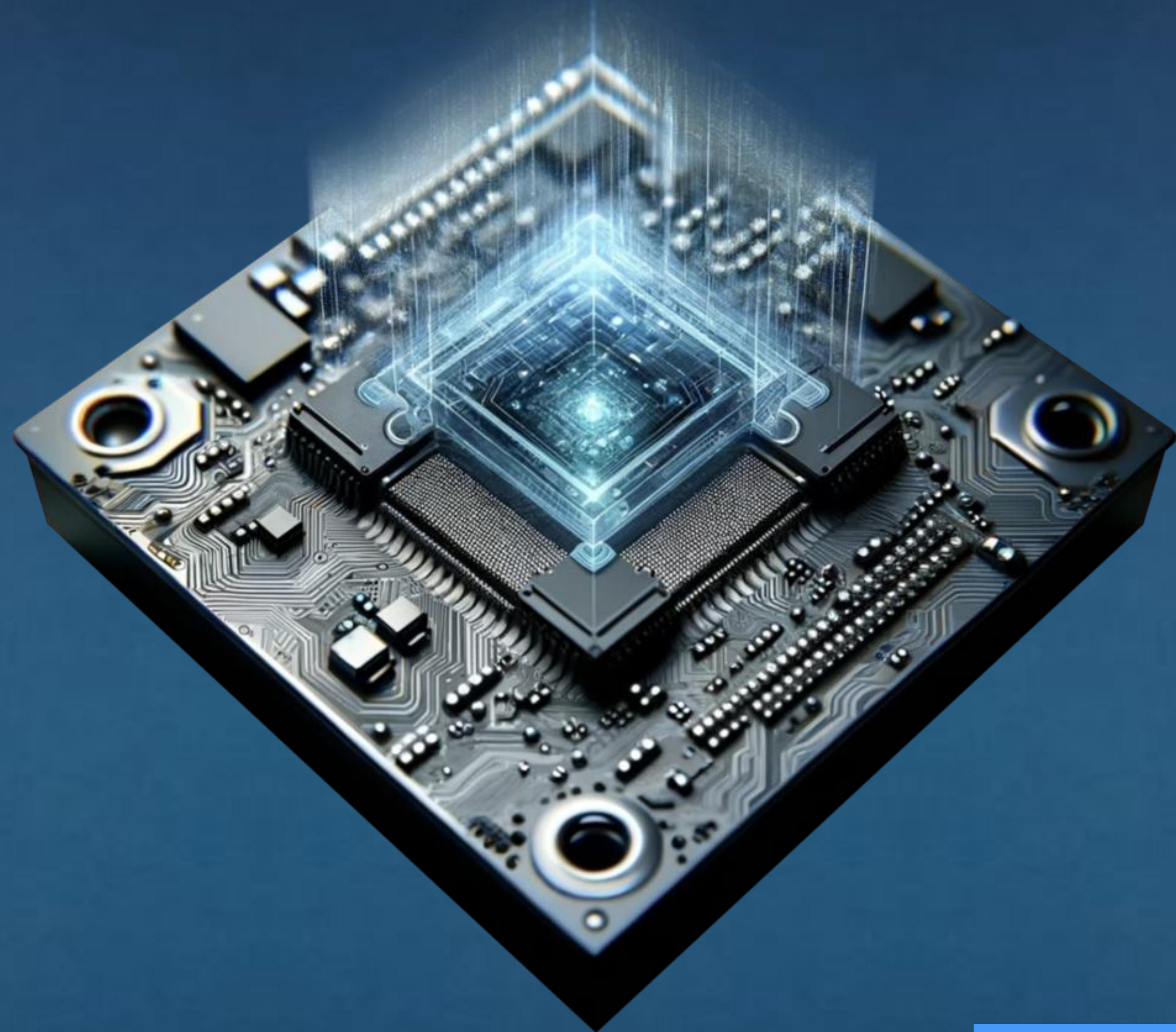
VISIBLE

NIR

**SWIR**

THERMAL IR

# EYE4NIR'S NEXT-GENERATION VIS/SWIR IMAGING



VISIBLE + INFRARED



>200X COST REDUCTION

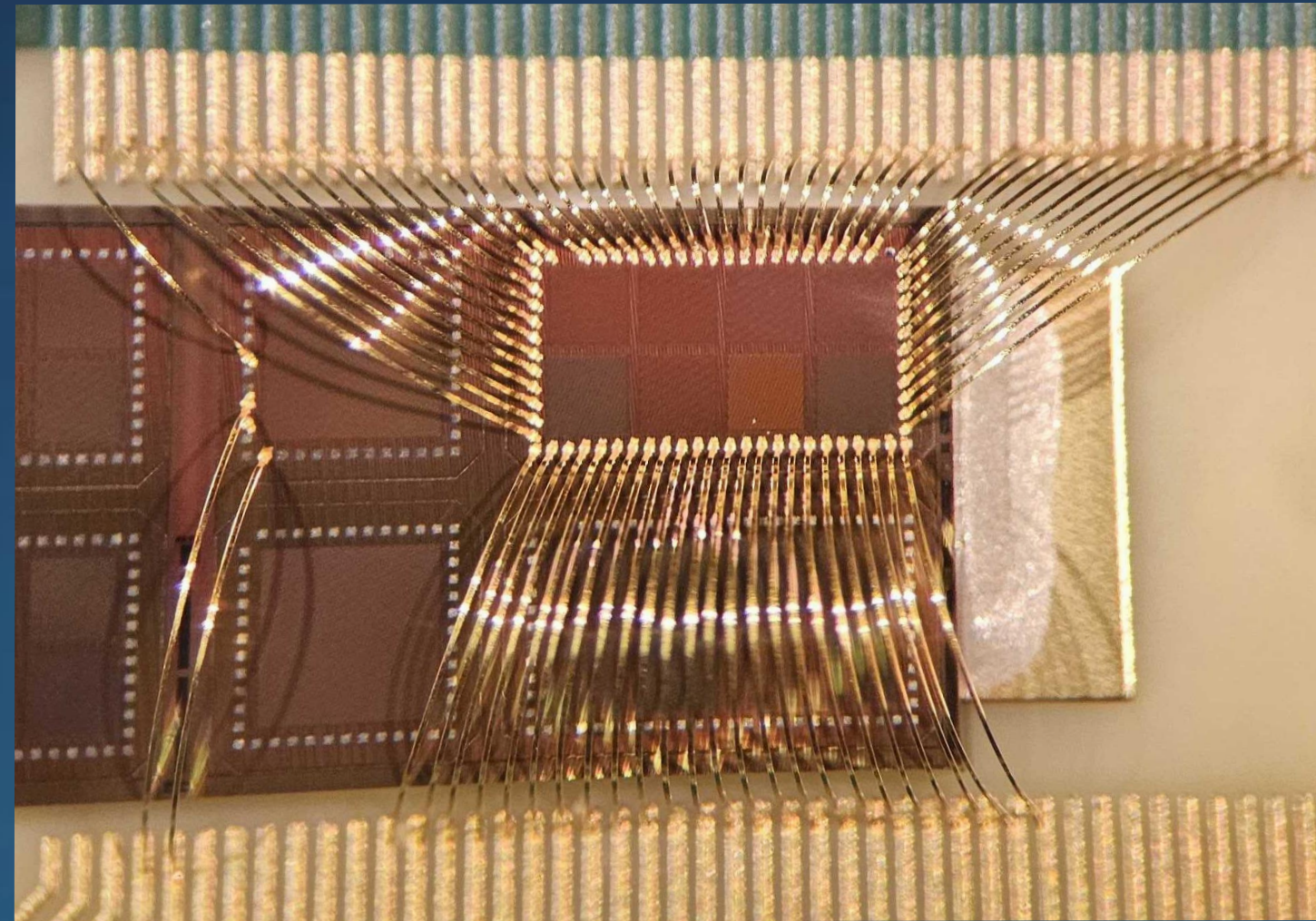
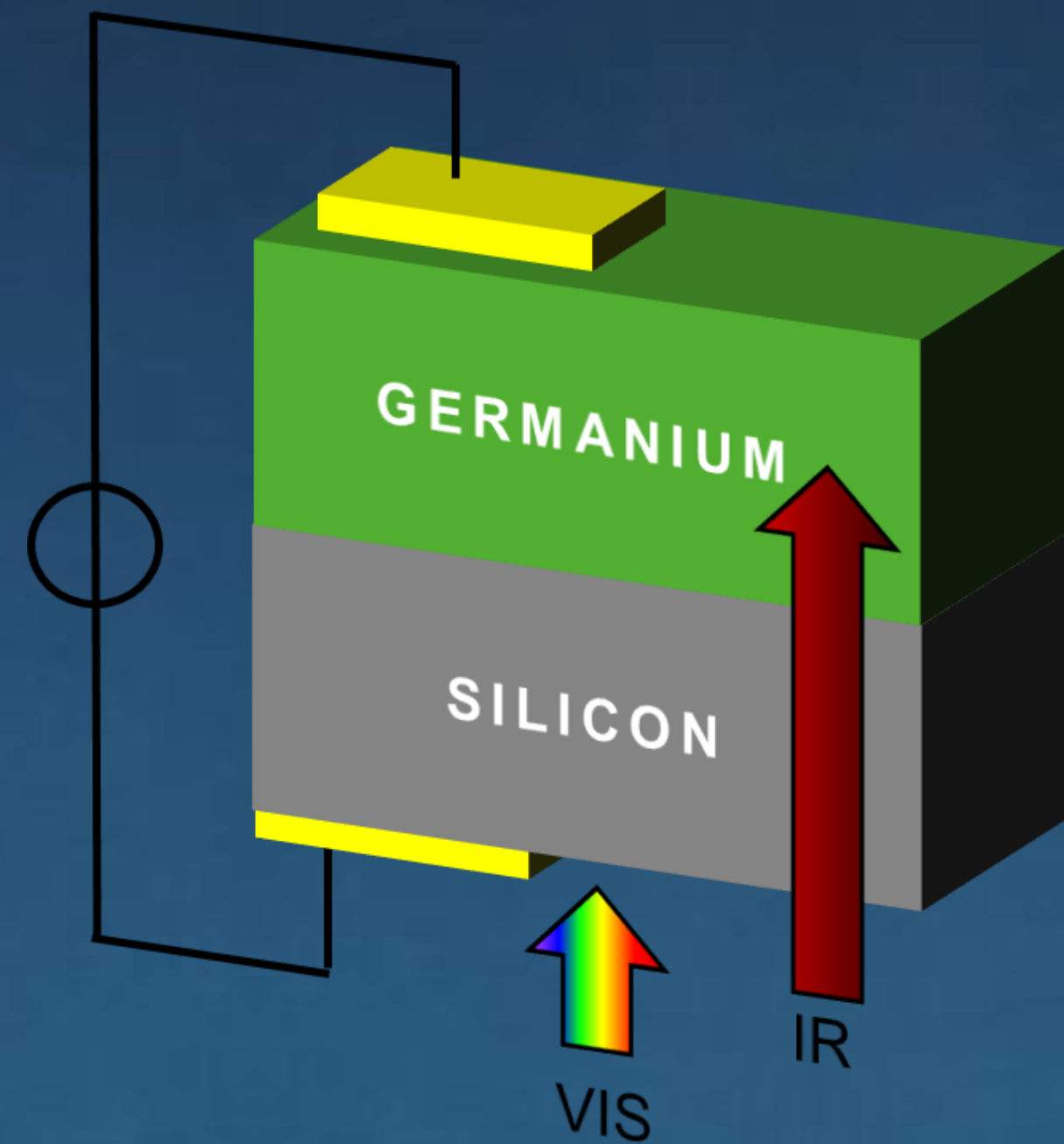


AI-ENHANCED DETECTION

PATENTED TECHNOLOGY

# TECHNOLOGY READINESS: TRL7

PATENTED TECHNOLOGY



Multi-band selectivity embedded in the hardware, proven in high volume fabrication processes within commercial fab.

Next step: Eval kit ready in Q4-2026

# MEET THE TEAM



ANDREA  
BALLABIO

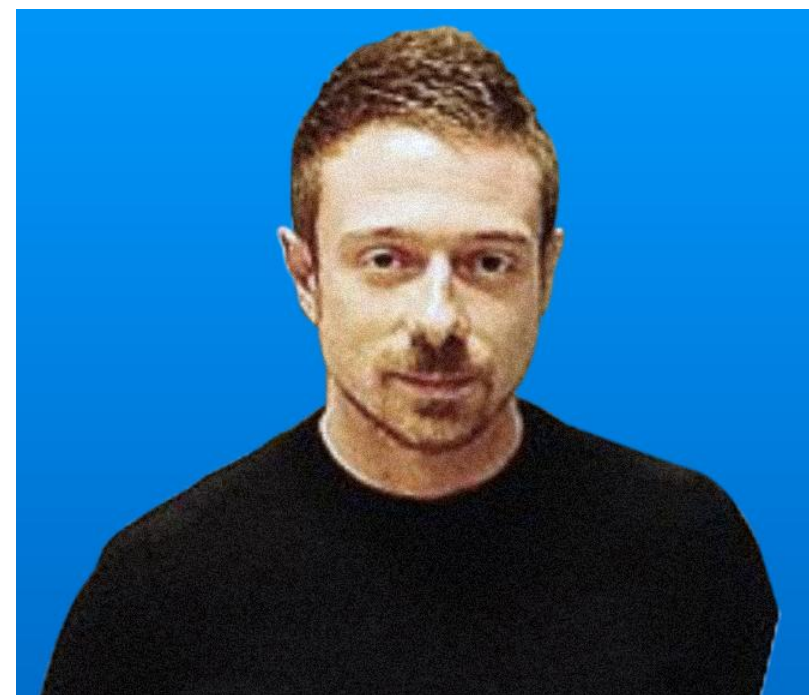


*CEO & Co-Founder*

PhD in Physics  
& Master's degree  
in Materials Science



JACOPO  
FRIGERIO

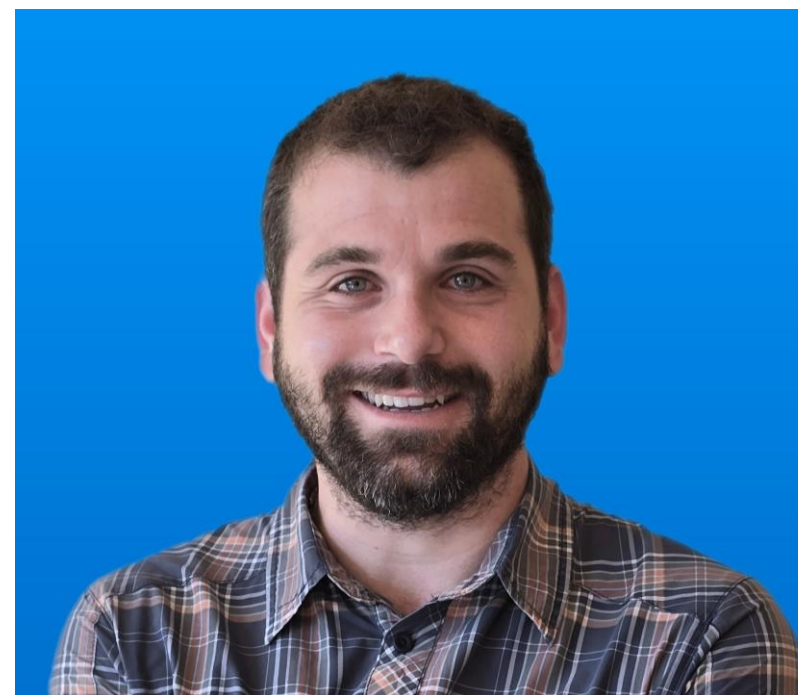


*COO & Co-founder*

Senior Researcher, PhD in  
Physics & Master's degree  
in Physics Engineering.



ANDREA  
DE IACOVO



*CTO & Co-founder*

PhD in Electronic Eng.  
& Master's Degree in  
Electronic Engineering.



4 Patent  
Families



9 People  
80% PhDs

## ADVISORY BOARD

**Gianlorenzo Masini**  
Ex-Cisco/Luxtera

**Roberto Bez**  
Micron

**Lino Fiore**  
Ex-National Instruments

## SCIENTIFIC COMMITTEE

**Prof. Giovanni Isella**  
Polytechnic of Milan

**Prof. Lorenzo Colace**  
Roma Tre University

# TRACTION



## ROBOTICS



- Machine and Robotics vision
- Navigation and Monitoring
- Materials recognitions and sorting
- Quality inspections

## AUTOMOTIVE



- Clear vision in compromised visibility conditions (low-light, fog, smoke, haze...).
- Immunity to sunlight disturbance
- Assessment of the road condition

## CONSUMER



- Advanced bio-monitoring
- Facial recognition
- Under-screen sensing

## DEFENCE



- All-weather operation
- Earth surface monitoring
- Anti-camouflage imaging
- Anti-spoofing

from niche markets to **SCALABLE INDUSTRIES**

Defence  
Industry

300M€



EYE4NIR  
Enabled

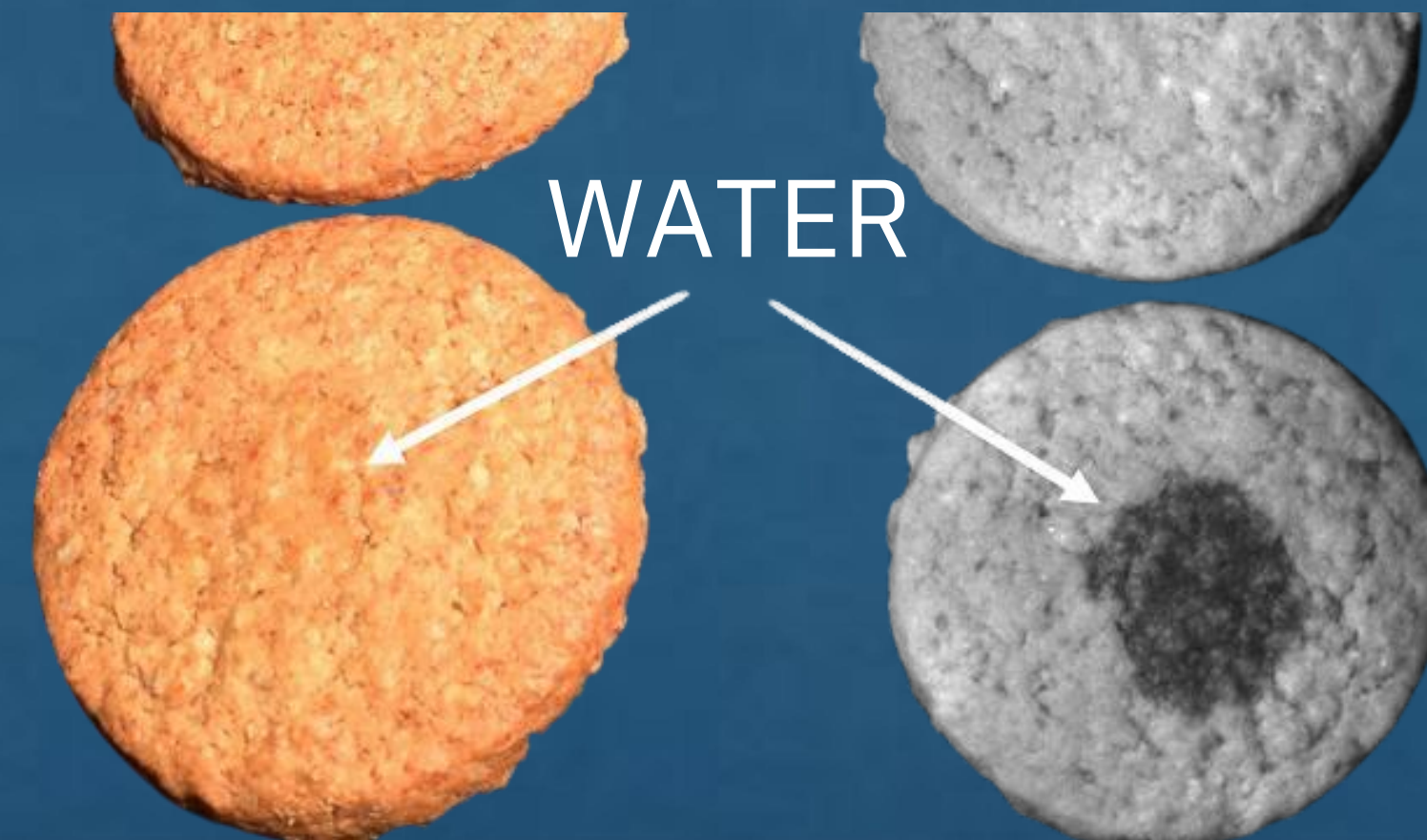
10B€

Drones  
ADAS  
Robotics  
Wearables

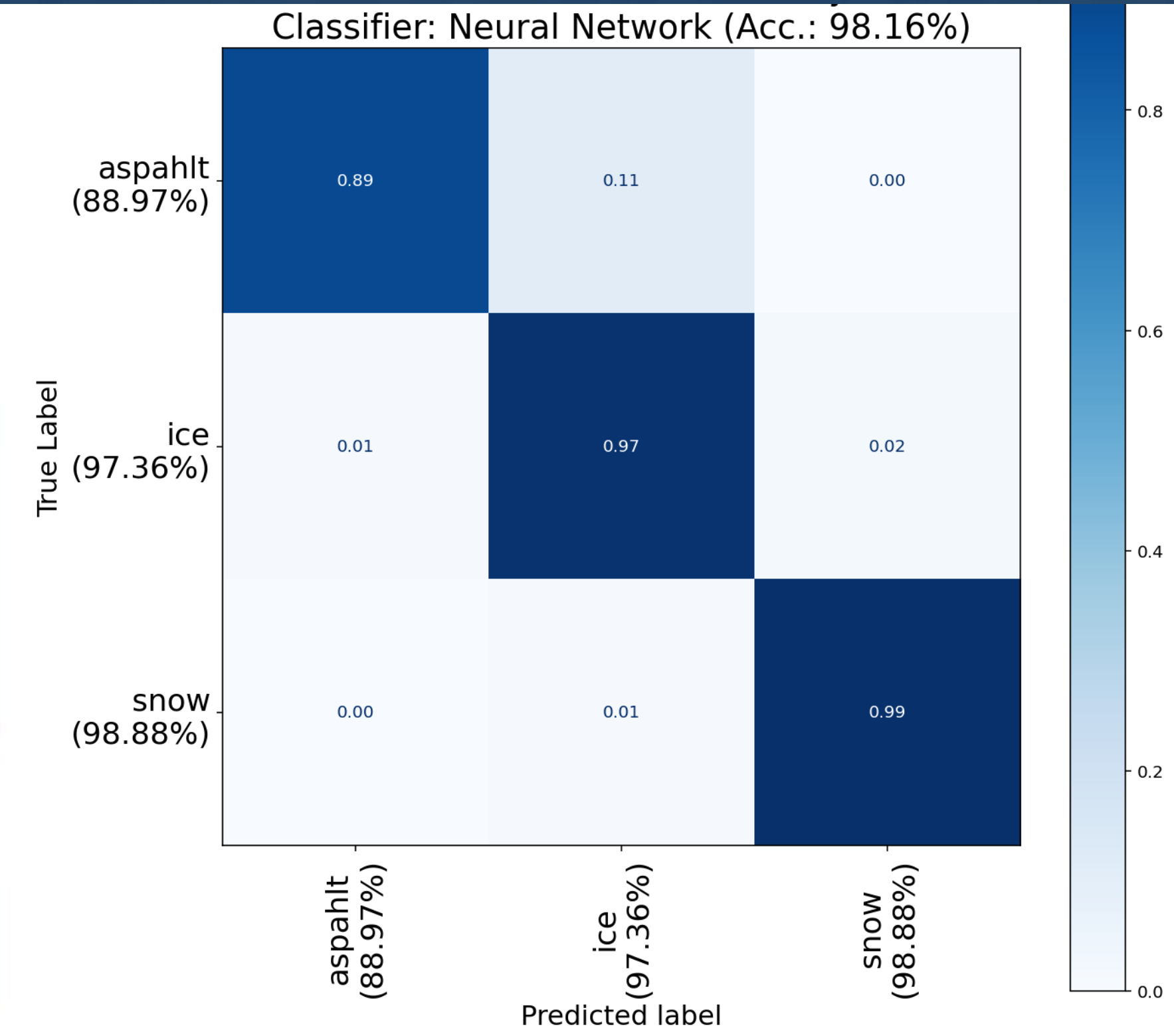
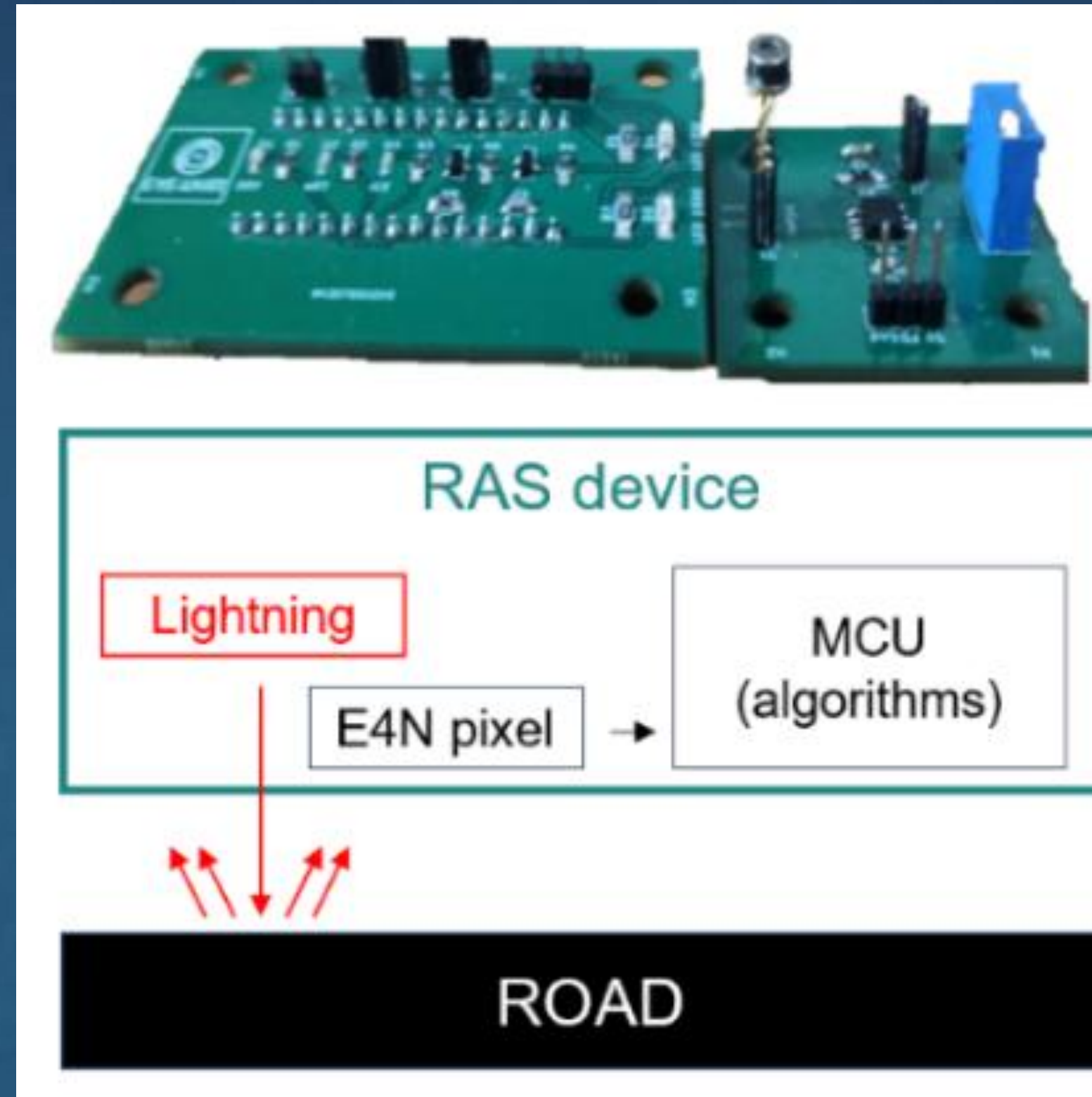
# APPLICATIONS in INDUSTRY



- Robotics **NAVIGATION**
- **MATERIALS** classification
- **WATER** detection
- **DEFECT** Monitoring



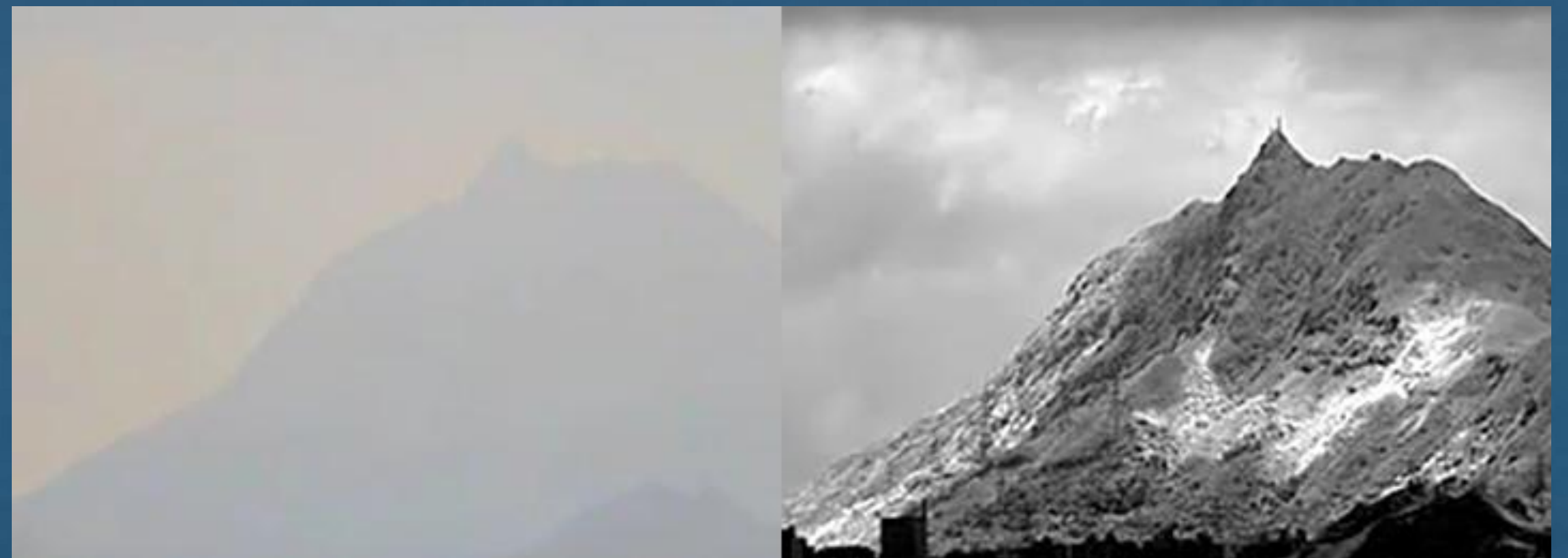
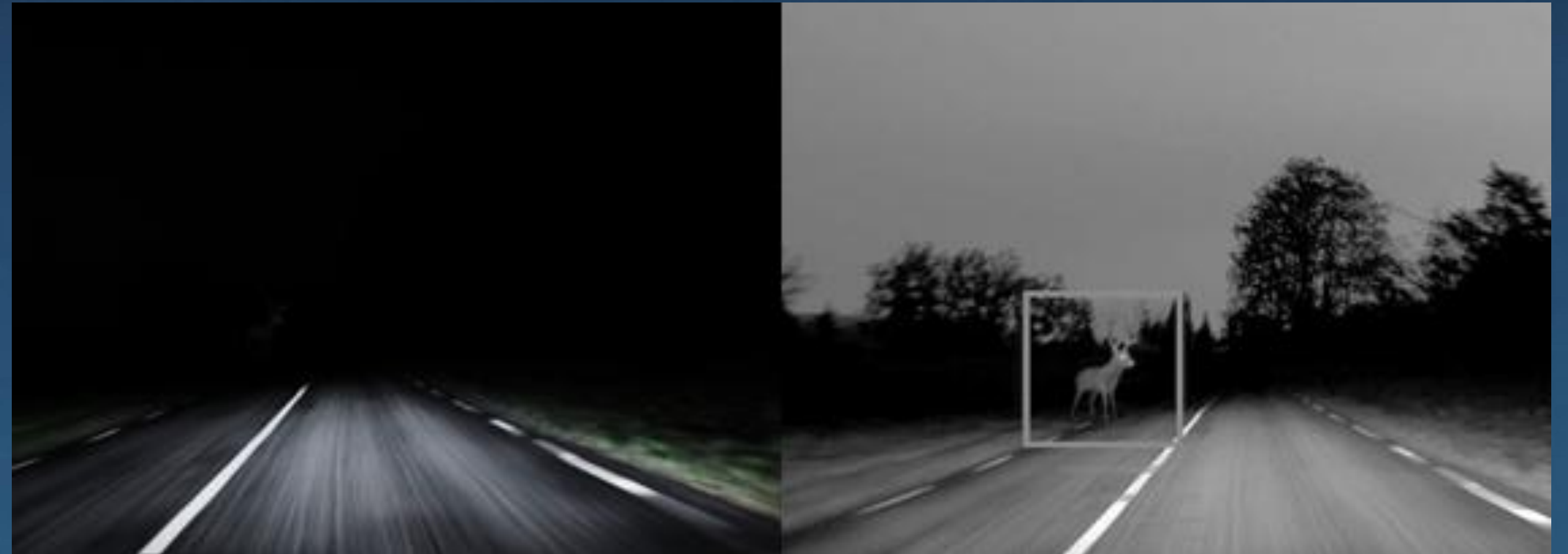
# SENSING the WATER



# LONG-TERM OPPORTUNITY



- NIGHT, FOG, GLARE Vision
- DRONE navigation
- ICE detection
- DRIVER Monitoring





you can see the world  
**EXTENDED.**

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