Smart Transportation in 3D

Omer Keilaf, Co-Founder & CEO

Innoviz Technologies

May 2025

INNOVIZ™
TECHNOLOGIES

Innoviz at a Glance

Mission Statement

Global Tier 1 Leader in LiDAR Technology and Perception Software, working towards a future with safe autonomous vehicles on the world's roads

Unique Offering

INNOVIZONE
First-Generation Automotive-Grade LiDAR

INNOVIZTWO
Automotive-Grade LiDAR

Perception SW
for Innoviz LiDARs

INNOVIZTWO Slim

INNOVIZTWO Medium Range

Leading Customers

Global Presence
430 Employees

📍Israel 📍Silicon Valley 📍Germany 📍Romania
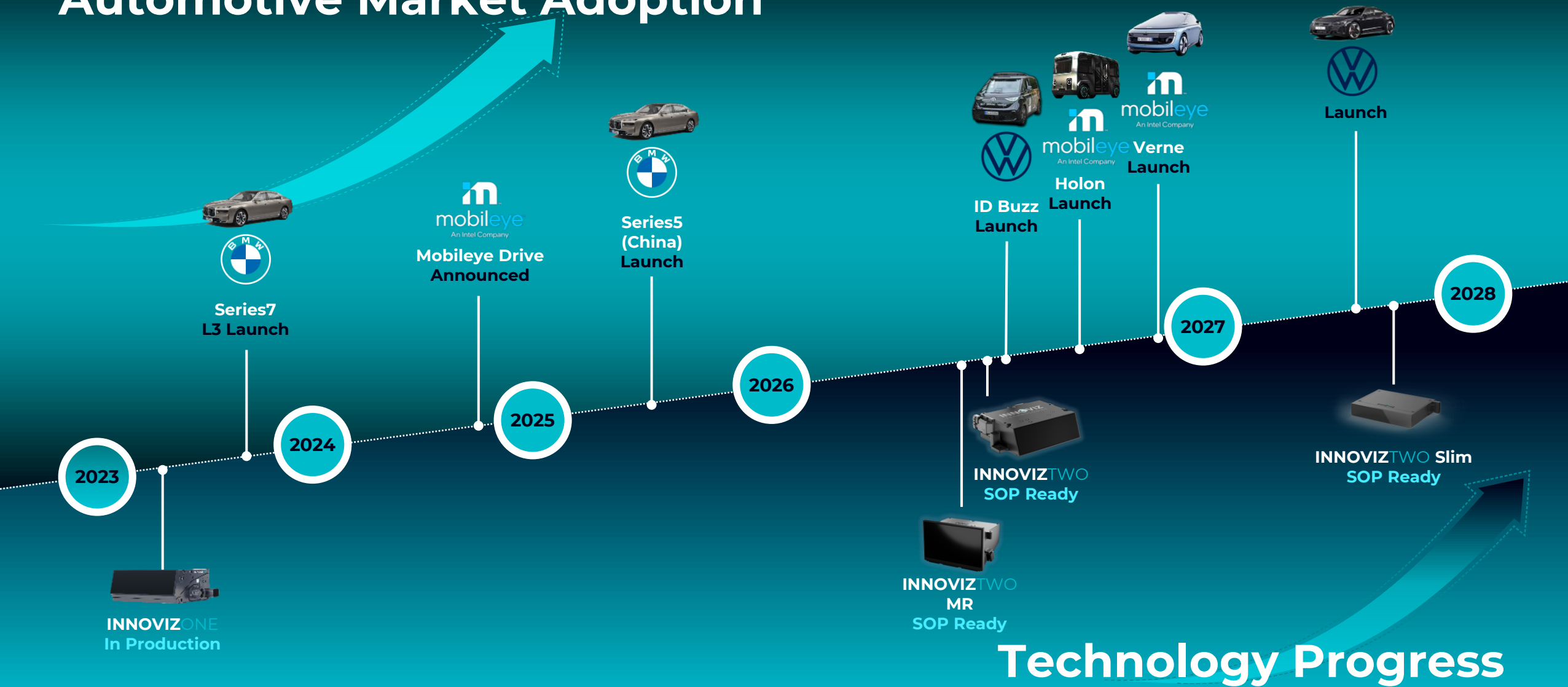📍Mainland China 📍Japan 📍Korea 📍Thailand

Innoviz Momentum with Automotive Customers

Multiple HW & SW Series Production Programs

2017 - 2023

2022 - On Going

OEM L3 Consumer Vehicle Program	OEM L3 Consumer Vehicle Program	L4 Light Commercial Vehicle Program	OEM L3 Consumer Vehicle Program	Mobileye Drive L4 Platform
Tier 1 with Magna	**Tier 1 Supplier**	**Tier 1 Supplier**	**Tier 1 Supplier**	**Variety of L4 Applications: Robotaxis, Shuttles, Public Transport**
First to win an OEM production contract for L3 LiDAR	First deal as Tier 1 direct supplier	Displaced a development-stage LiDAR competitor. Both long-range and mid-range LiDARs	Additional multi-brand platform in the VW group	Displaced a development-stage LiDAR competitor. Both long-range and mid-range LiDARs
Awarded for multiple vehicle models	8-10 year program Multiple brands, multiple models			
Perception by Innoviz	Perception by Innoviz Perception by Bosch	Perception by Mobileye	Perception by Mobileye	Perception by Mobileye
RENESAS	**Qualcomm**	**mobileye** An Intel Company	**mobileye** An Intel Company	**mobileye** An Intel Company
INNOVIZONE PERCEPTION SOFTWARE	INNOVIZTWO PERCEPTION SOFTWARE	INNOVIZTWO INNOVIZTWO MR	INNOVIZTWO	INNOVIZTWO INNOVIZTWO MR

Automotive Market Adoption

Technology Progress

2023
INNOVIZONE
In Production

2024

2025
Series7
L3 Launch

mobileye
An Intel Company
Mobileye Drive
Announced

2026
BMW
Series5
(China)
Launch

ID Buzz
Launch

mobileye
An Intel Company
Holon
Launch

mobileye
An Intel Company
Verne
Launch

Launch

INNOVIZTWO
SOP Ready

INNOVIZTWO
MR
SOP Ready

2027

2028
INNOVIZTWO Slim
SOP Ready

INNOVIZ™
TECHNOLOGIES

Innoviz Global Presence

Worldwide Development, Sales, and Support

North America
Sales & Support

Germany
Sales & Support (Europe)

Romania
Development

Japan
Sales & Support

Israel
Global HQ
Development

Korea
Sales & Support

Mainland China
Sales & Support

Thailand
Manufacturing

INNOVIZ
TECHNOLOGIES

Smart Transportation

INNOVIZTWO for Smart Applications

High Resolution, Large Field of View

Smart City Applications

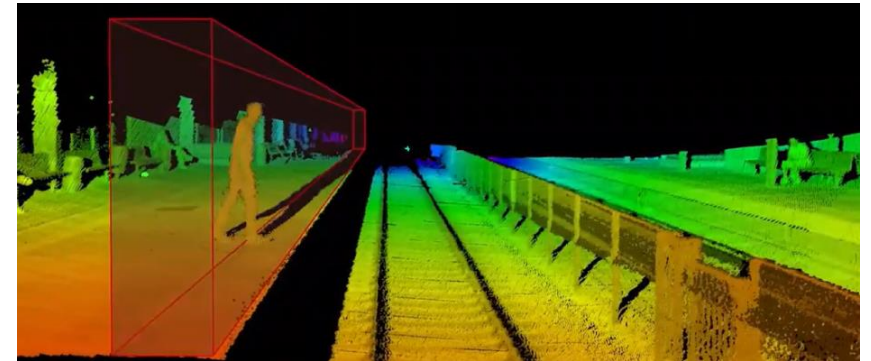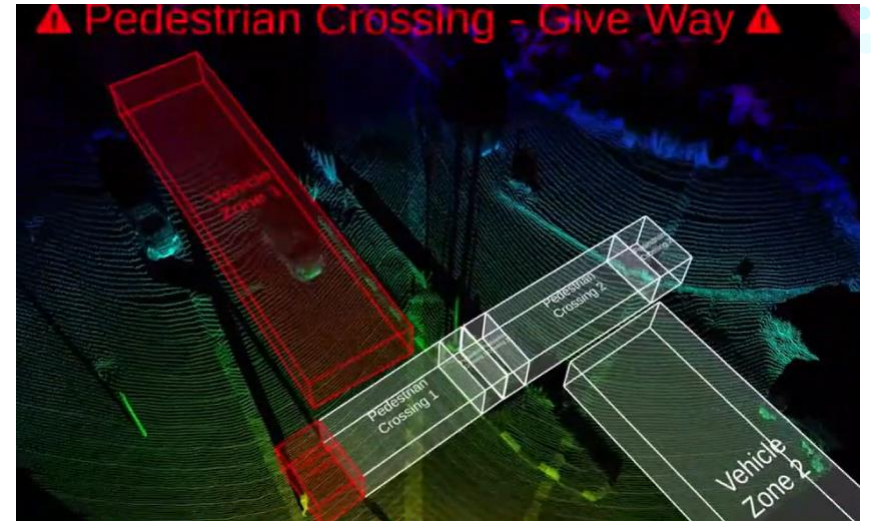## Innoviz LiDAR – Unique Range, Resolution & FOV

› **Main Use cases:**

- Intersection monitoring
- Parking lot management
- Vehicle heights detection
- Transportation hubs - Airports and train stations.

› **LiDAR Technology Advantages:**

- Operates in complete darkness
- Privacy-Safe
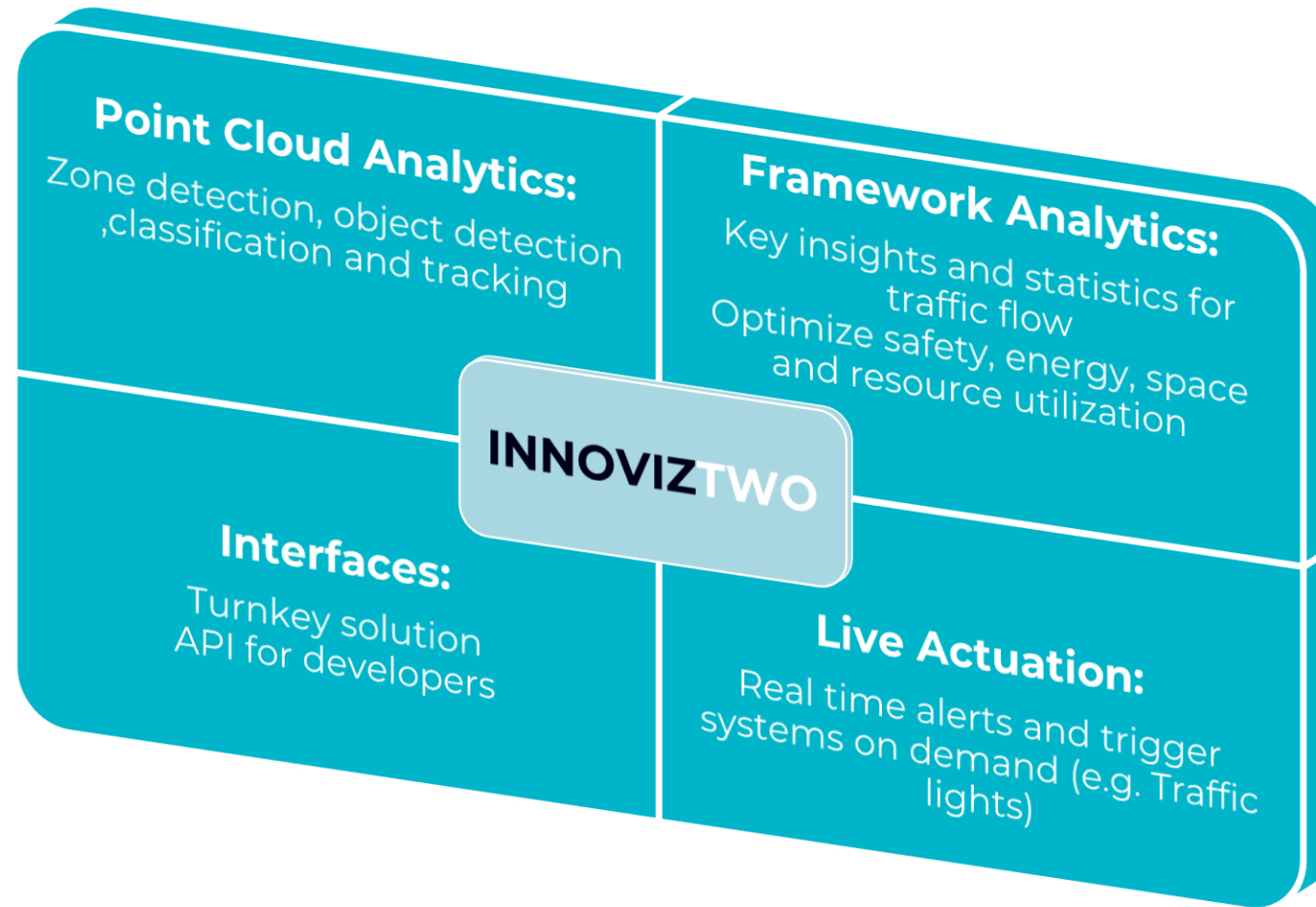- 3D Detection with a single sensor

› **Innoviz LiDAR Benefits:**

- Wide-Area coverage with fewer sensors
- Continuous traffic flow monitoring with a single unit
- High precision
- Trusted supplier to strategic customers

Smart City Applications

Turnkey solution

Point Cloud Analytics:
Zone detection, object detection, classification and tracking

Framework Analytics:
Key insights and statistics for traffic flow
Optimize safety, energy, space and resource utilization

INNOVIZTWO

Interfaces:
Turnkey solution
API for developers

Live Actuation:
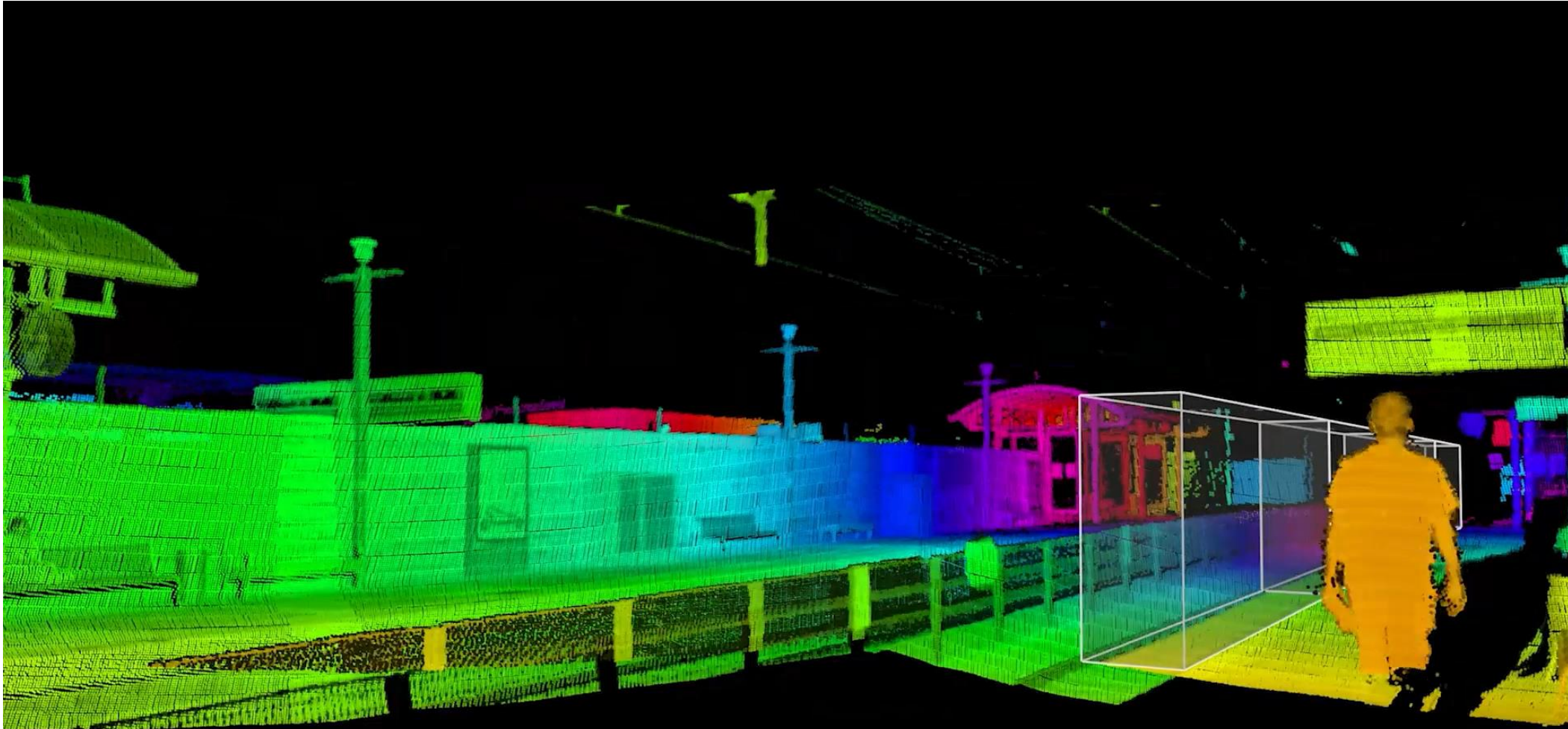Real time alerts and trigger systems on demand (e.g. Traffic lights)

Tracking Moving Objects

Smart Rail Management

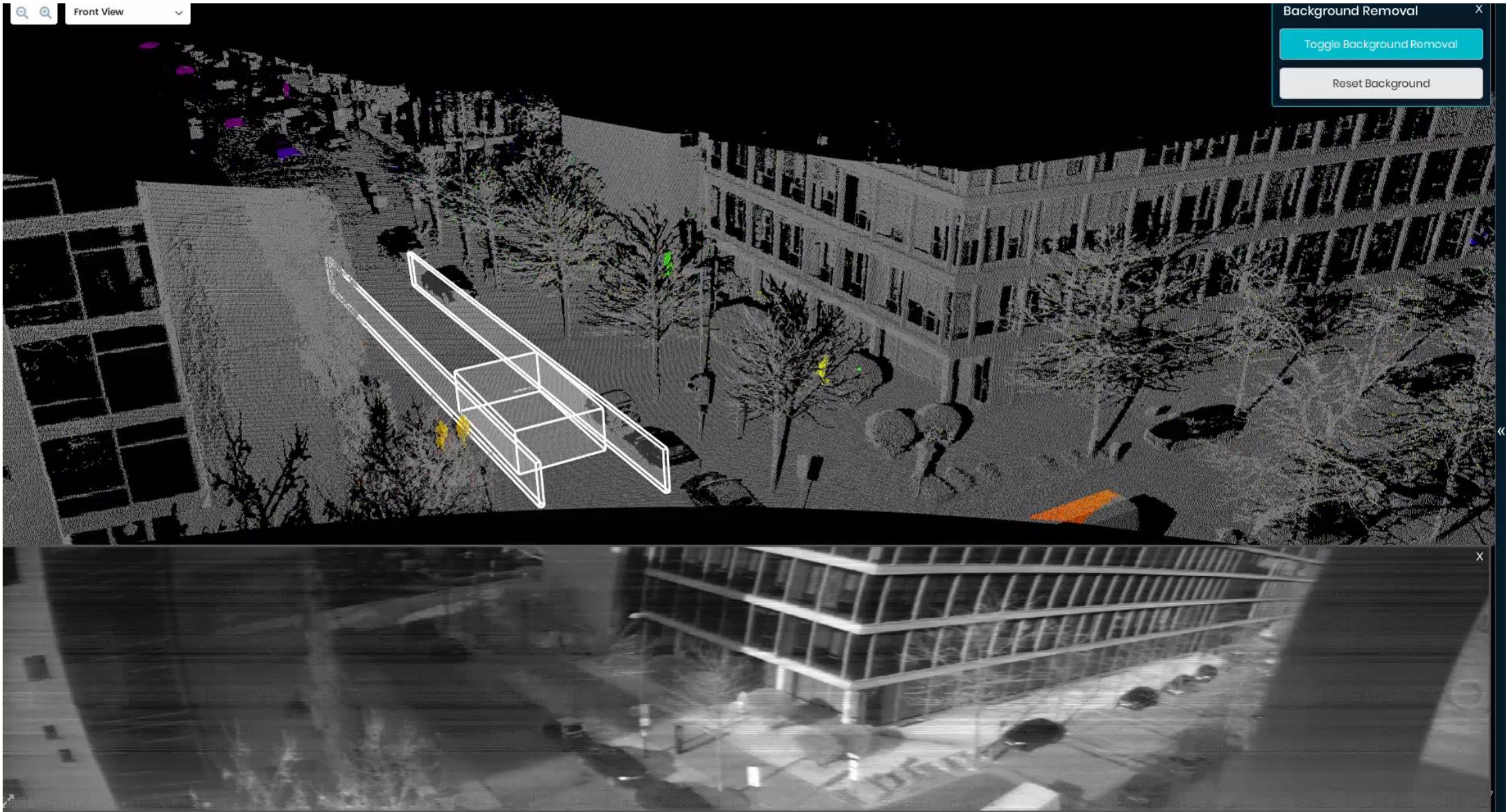Virtual wall enables alerting whenever a breach takes place

Height Detection

Enables bridge collision prevention

Managing and Alerting Restricted Areas

Additional Applications

Surveillance Applications

Innoviz LiDAR – Unique Range, Resolution & FOV

› **Main Use cases:**
- Borderline security
- Strategic assets
- Prisons
- Airports
- Small Drone detection
- Spot thrown or dropped objects with high accuracy

› **LiDAR Technology:**
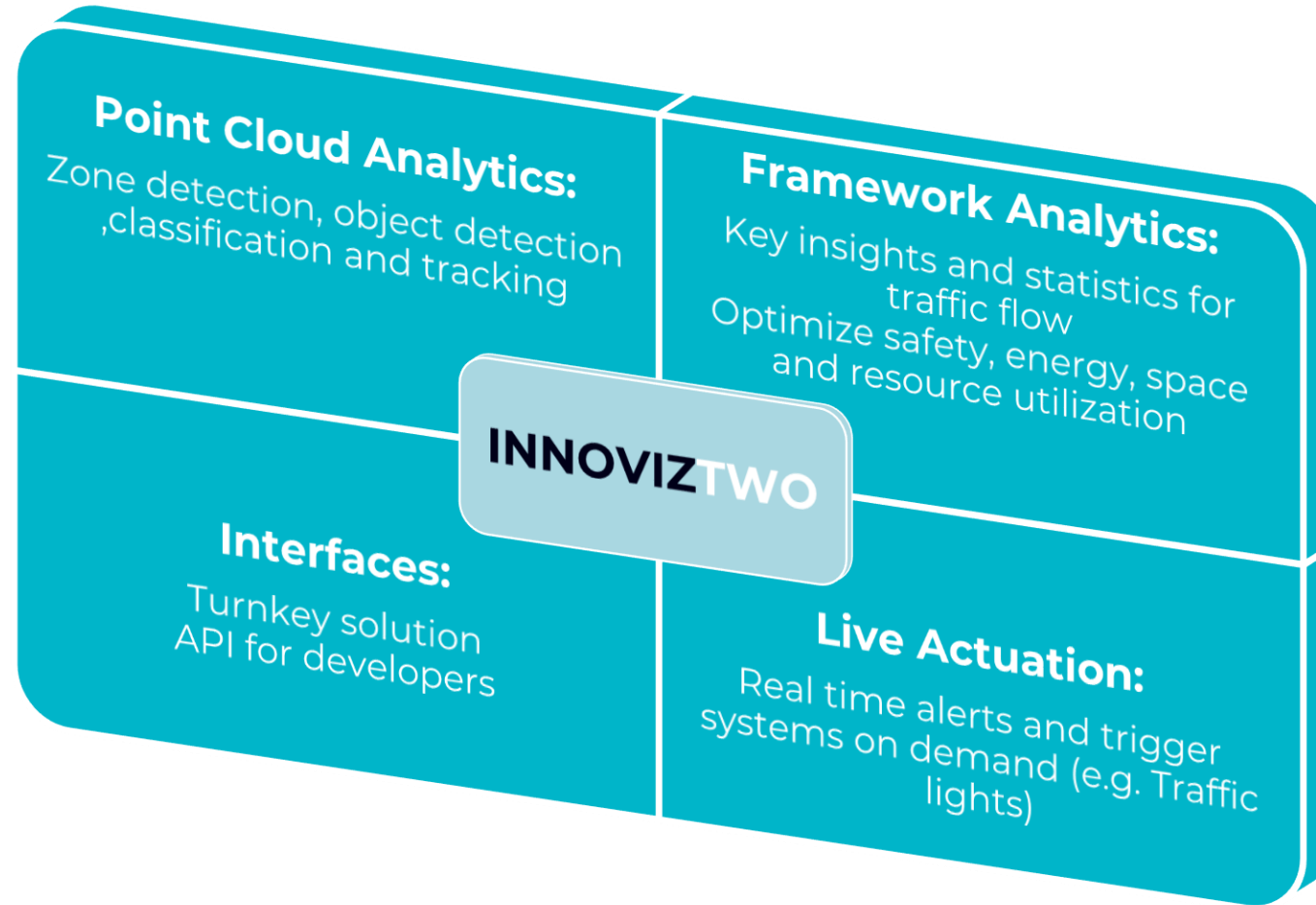- Superior Performance in Complete Darkness

› **Innoviz LiDAR:**
- Dual reflections: Optimized for rain and fog conditions
- Dust Resilience
- Super high resolution: Capture maximum pixels for small objects
- Long range and wide FOV: high efficiency and installation simplicity
- High FPS
- Trusted supplier to strategic customers

Surveillance Applications

Turnkey solution

Point Cloud Analytics:
Zone detection, object detection ,classification and tracking

Framework Analytics:
Key insights and statistics for traffic flow
Optimize safety, energy, space and resource utilization

INNOVIZTWO

Interfaces:
Turnkey solution
API for developers

Live Actuation:
Real time alerts and trigger systems on demand (e.g. Traffic lights)

Small Obstacle Detection & Background Removal

Detecting small object as small as a tennis ball for security applications
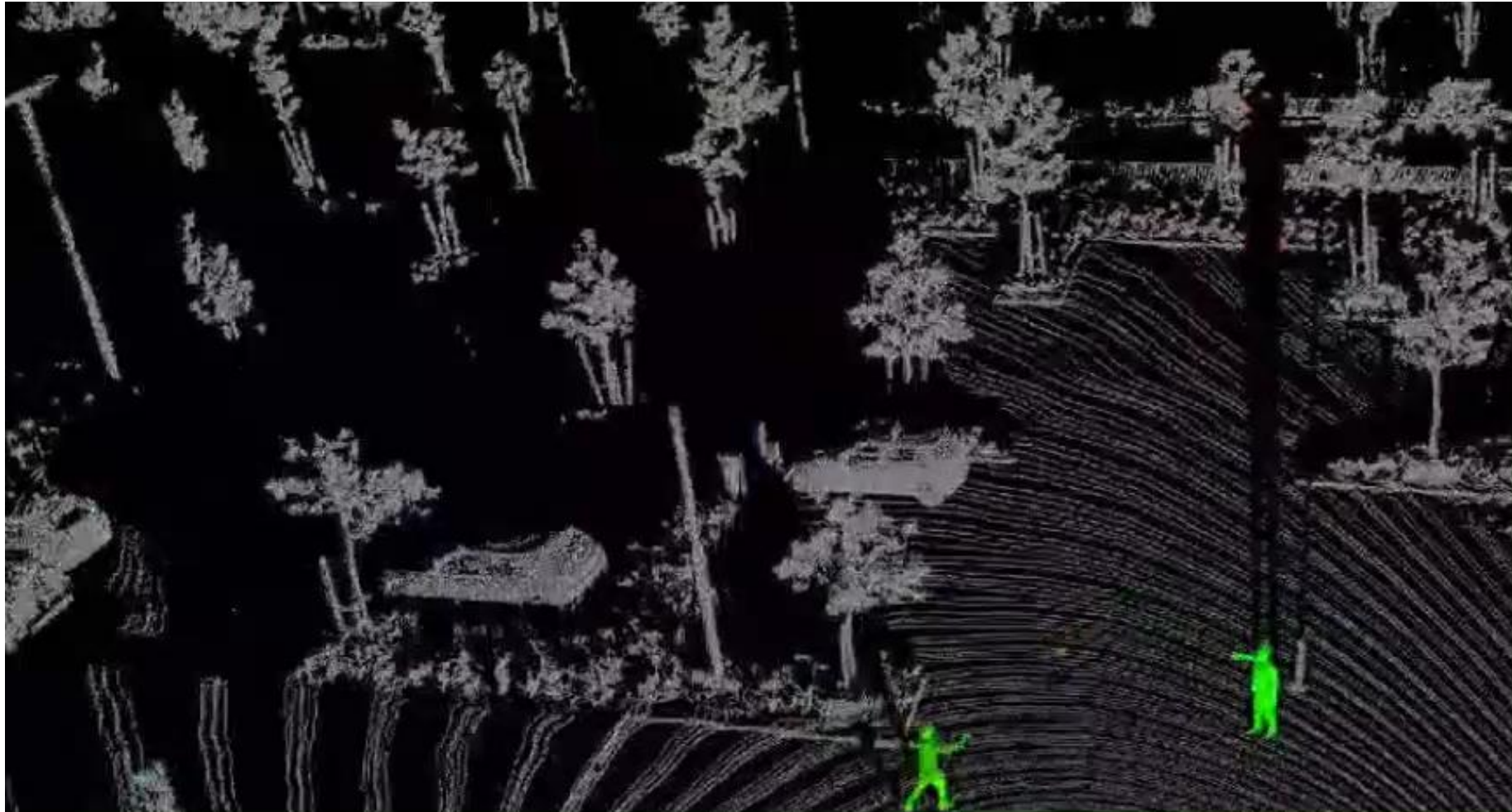
Industrial Applications

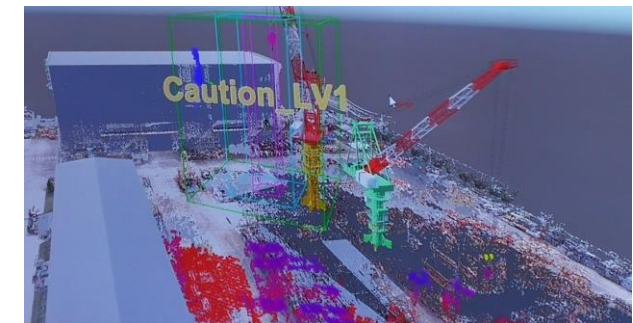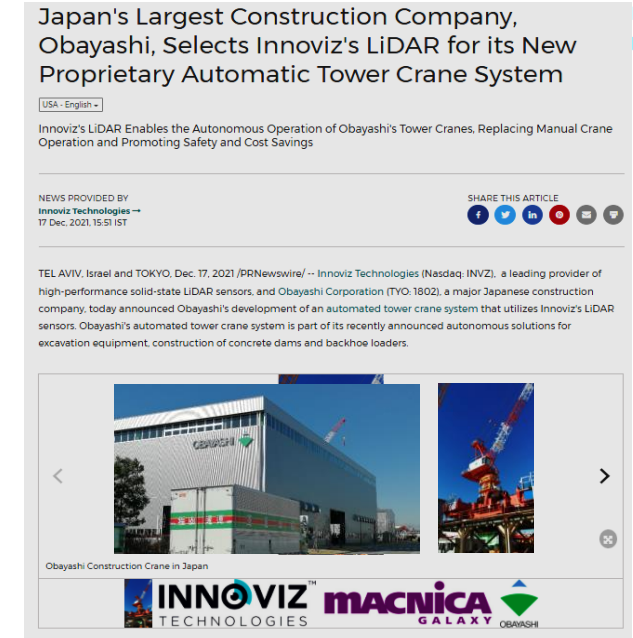## Why Innoviz LiDAR – Range Resolution & FOV

› **Main Use cases:**

- Construction
- Robotics
- Mining
- Maritime ports & airports: Power autonomous vehicles

› **LiDAR Technology:**

- Essential for Autonomous Systems: A critical enabler for achieving higher levels of autonomy
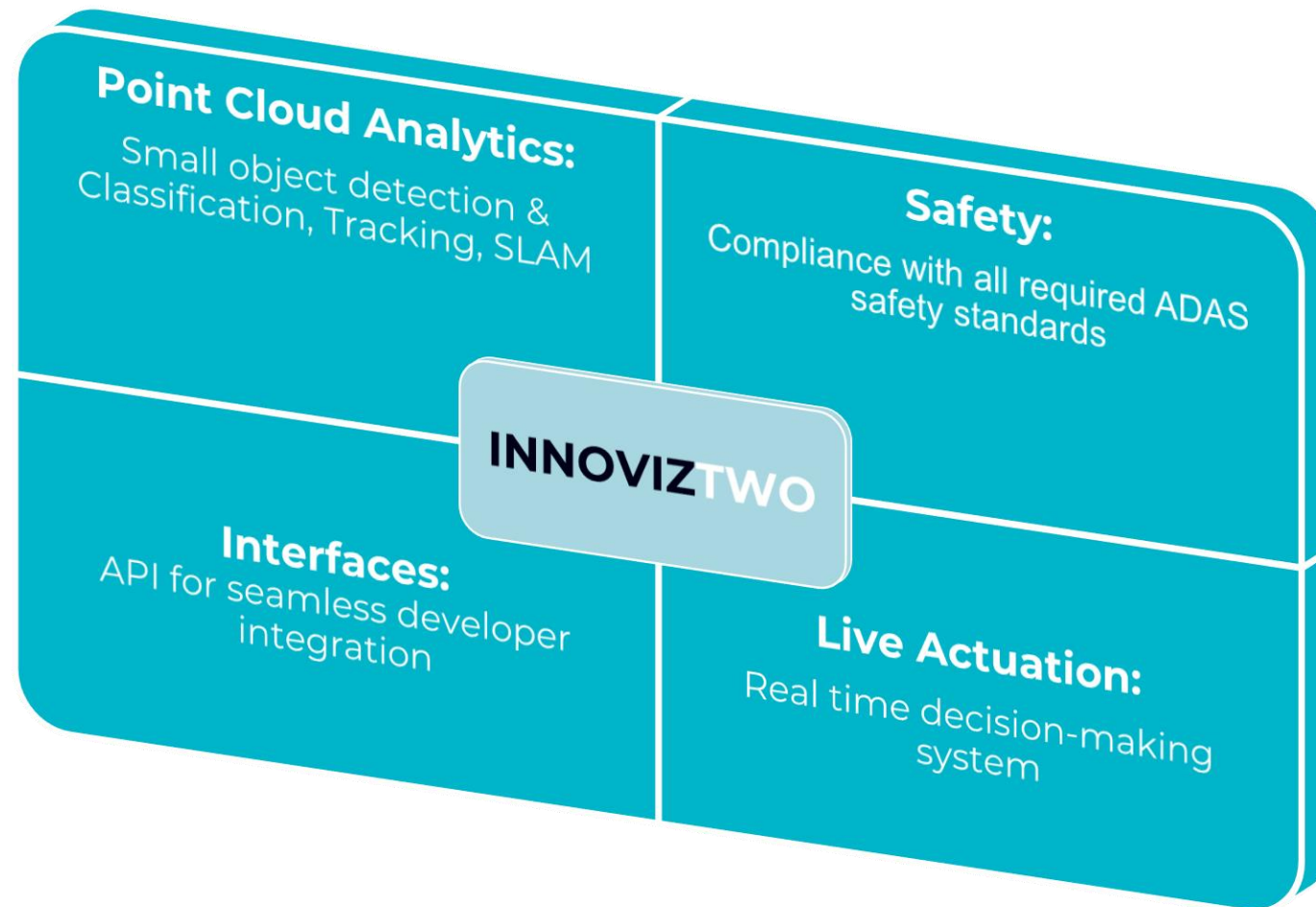
› **Innoviz LiDAR Advantages:**

- Wide HFOV and VFOV – Medium Range LiDAR
- Extensive Safety Expertise
- Automotive grade reliability
- Developer-Friendly API
- Trusted supplier to strategic customers

Japan's Largest Construction Company, Obayashi, Selects Innoviz's LiDAR for its New Proprietary Automatic Tower Crane System

USA - English

Innoviz's LiDAR Enables the Autonomous Operation of Obayashi's Tower Cranes, Replacing Manual Crane Operation and Promoting Safety and Cost Savings

NEWS PROVIDED BY
Innoviz Technologies →
17 Dec, 2021, 15:51 IST

SHARE THIS ARTICLE

TEL AVIV, Israel and TOKYO, Dec. 17, 2021 /PRNewswire/ -- Innoviz Technologies (Nasdaq: INVZ), a leading provider of high-performance solid-state LiDAR sensors, and Obayashi Corporation (TYO: 1802), a major Japanese construction company, today announced Obayashi's development of an automated tower crane system that utilizes Innoviz's LiDAR sensors. Obayashi's automated tower crane system is part of its recently announced autonomous solutions for excavation equipment, construction of concrete dams and backhoe loaders.

Obayashi Construction Crane in Japan

Industrial Application

Turnkey solution

Point Cloud Analytics:
Small object detection &
Classification, Tracking, SLAM

Safety:
Compliance with all required ADAS
safety standards

INNOVIZTWO

Interfaces:
API for seamless developer
integration

Live Actuation:
Real time decision-making
system

Harbor Container Monitoring and Control

INNOVIZTWO Variants Summary

	INNOVIZTWO Raven	INNOVIZTWO Condor	INNOVIZTWO Seagull
Target Applications	Smart Application	Automotive	L4: Robotaxi, Trucks
Digital Range	300m	300m	100m
10% target range	180m	240m	80m
Dimensions (mm) HxWxD	46x145x123	46x145x123	103x144x112
FOV HxV	120°x24°	120°x28.8°	110°x70°
Connectivity	Ethernet / GMSL	Ethernet / GMSL	Ethernet