Kick-off Meeting December 6, 2023



#### Hosted by:



Tim VanGoethem
Chief Product Officer
Emergency Safety Solutions



Scott Pate
Co-Founder
LiDAR Saving Lives Public Safety Coalition

Kick-off Meeting
December 6, 2023

## Today's Agenda

- Introductions
- BoF Overview
- Q&A / Discussion
- Next Steps

Kick-off Meeting December 6, 2023

## Connected Safety BoaF Goal & Strategies

Bring together public safety, automotive, commercial transportation, and government to make our roadways safer for everyone:

- Define comprehensive stakeholder-based safety-related scenarios and value propositions
- Collaborate with COVESA members and others safetyrelated organizations to develop safety expertise and community within COVESA
- Develop integrated safety system prototypes and references implementations
- Publish white papers on key findings, best practices, and implementation recommendations

Kick-off Meeting December 6, 2023

## Connected Safety BoaF Result

Accelerate delivery of connected technologies to benefit everyone that shares, protects, and maintains our roadways. Examples:

- Protect and give aid to vulnerable vehicles and occupants stranded along roadways
- Reduce response time and secondary collision risk for motorists involved in a crash
- Provide 911 Public Safety organizations with critical information so that they dispatch the right personnel and equipment to the scene
- Mitigate liability and lost productivity for commercial vehicles involved in roadway crashes

Kick-off Meeting December 6, 2023

## Connected Safety BoaF Approach

- Use storytelling (Journey Maps) to clarify end-user need and value created under specific scenarios
- Once represented end-user stories are captured, define end-to-end scope of connected safety-related solutions
- Define the technical interfaces and business models between eco-system members, leveraging other COVESA, industry experts, and industry standards where appropriate
- Develop and demonstrate solutions that can be packaged for the market

## Journey Map Example (1 of 2)

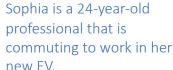
#### **Imagery**

Storyline

to life

Overall story that we're bring

Cartoons, animated presentations, or demonstrations that bring storyline to life



A tanker truck abruptly changes lanes, collides into Sophia's car, and forces the driver of a rental car to swerve into a nearby lake. The embedded vehicular emergency sensor triggers the submersion escape system in the rental car and instantaneous IP notification for emergency services in all vehicles. 1

 Automated submersion system enables rental car occupants to escape quickly.

 Instantaneous IP notification enables accurate and prompt implementation of rescue services and start of emergency response.

scene, gives other motorists time to slow down and move over, and helps locate vehicles that has left the

 Timely notification of vulnerable vehicle location reduces response time and further collision risk.

Scene 2 Set-up Scene 1 Scene 3 Scene 4 

Recognizing that a collision

vehicles automatically flash

at a faster rate so that other

drivers have more time to

Responders can see them.

react, and Emergency

hazard and other vehicle lights

has occurred, all three

 Conspicuous lighting protects roadway.

notified and dispatches a police car, fire truck, and ambulance to the scene.

The nearby E911 center is

## Value **Proposition**

The value that each company and technology brings to this story

• Digital alerts work in tandem with lighting alerts to protect the scene and give motorists time to slow down and move over.

In parallel, on-coming drivers

dash system so that they have

even more time to react to the

receive an alert in their in-

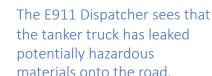
upcoming crash scene.

1. Separate Journey Maps can be used to capture the stories for the tanker truck and rental car occupants since they unlock different solutions and value propositions. The following scenes will focus on Sophia.

# Journey Map Example (1 of 2)

#### **Imagery**

Cartoons, animated presentations, or demonstrations that bring storyline to life



Scene 5

Fire responders are provided a VIN-specific extrication guide for Sophia's EV.

Scene 6

Sophia see a map indicating her location with icons for the responding vehicle location and their projected ETA.

Scene 7

In parallel, family/emergency contacts are notified and provided the same map.

Responders arrive on scene and safely remove Sophia from her vehicle.

Scene 8

Sophia seems OK but is taken to the hospital for further medical evaluation.

Scene 9

Vital health parameters are transmitted to the hospital while in transit.

Family/emergency contacts are updated.

#### Storyline

Overall story that we're bring to life

• LiDAR/radar/camera 3D point cloud let's E911 Dispatcher assess scene and better inform emergency & incident responders what to expect

 Point Cloud image protects privacy since no identifying information is visible.

- •Emergency Responders can safely extract victims without compromising the vehicle's power wiring or battery system that may lead to fire or hazardous materials being spilled into environment.
- •Piece of mind that someone is on their way and when they will arrive.
- •Awareness that a loved one is in danger, but help is on the way.
- •Reduced response time decreases risk of secondary collision.
- Proper on-scene care minimizes complications.
- •Sophia is safe and can focus on recovery.
- •Sophia's family knows that she's OK and where to meet her.

# Value Proposition The value that each company

The value that each company and technology brings to this story

Kick-off Meeting
December 6, 2023

### **Questions & Discussion**

- Does this make sense?
- What else should we do?
- What should we avoid?
- Others?

Kick-off Meeting December 6, 2023

## Next Steps

- Solicit volunteers to draft new Journey Map scenarios for:
  - 911 Public Safety
  - Commercial Fleet Vehicular Emergency (driver & fleet)
  - Submerged Vehicle
  - Driver Health Event
  - Rental Car Stolen Vehicle Public Safety Awareness
  - Driverless Robotaxi Public Safety Awareness
  - Others...
- Reconvene January 2024 to review ideas and align on initial solutions
- Define end-to-end scope of connected safety-related solutions