

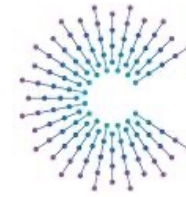
Next-Generation 9-1-1 Connected Public Safety Answering Point (PSAP) Roundtable

AutoTech Detroit
June 4th, 2024

Sponsored by:



CENTER FOR
AUTOMOTIVE
RESEARCH



COVESA

Accelerating the future of connected vehicles



LiDAR

SAVING LIVES

Hosted by:



Tim VanGoethem

CPO, Emergency Safety Solutions

Co-chair COVESA Connected Safety Group



Ravi Puvvala

General Manager, SBU,

Center for Automotive Research

Roadway injuries and fatalities continue to rise



U.S. traffic deaths jumped 10.5% in 2021 to 42,915, the highest number killed on American roads in a single year since 2005.

Source: Reuters, September 2023

COVESA Connected Safety Group, LSL and CAR Catalyzing Change

COVESA - Connected Safety Group

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 9-1-1 Public Safety organizations with critical information so they dispatch the right personnel and equipment to the scene
- Mitigate liability and lost productivity for commercial vehicles involved in roadway crashes

LSL – LiDAR Saving Lives Public Safety Coalition

Promote adoption and implementation of automotive vision-based technologies to enhance situational awareness and emergency response:

- Define comprehensive stakeholder-based value propositions & document any roadblocks
- Collaborate with COVESA and CAR on design, build and promotion of ‘COVESA 9-1-1 Safety Car’ at events like CES, NADA, APCO, NENA, EENA, NAEMT, IACP, IAFC, NSA, etc.
- Focus on adoption with PSAPs, Computer-Aided Dispatch (CAD) Suppliers, and First Responders
- Publish reports on key findings and recommendations

CAR – Center for Automotive Research

Bring 9-1-1 Public Safety Answering Points (PSAPs), automotive OEMs, telematics service providers and NHTSA to discussion forums:

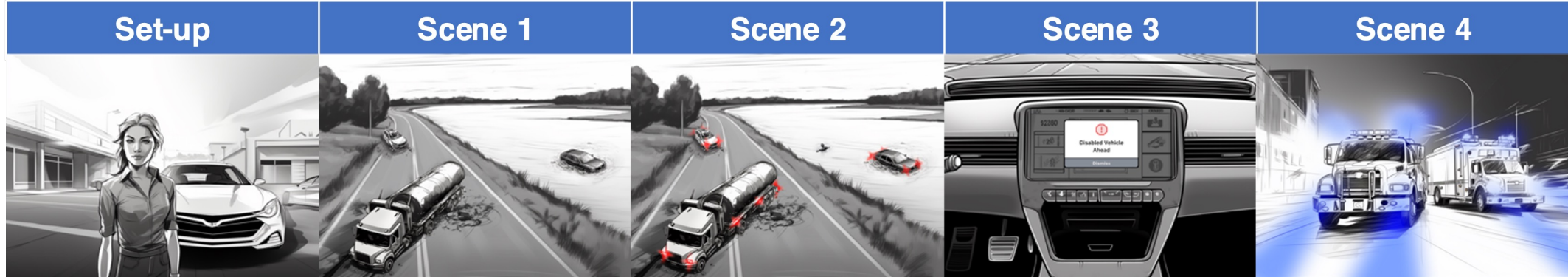
- Define comprehensive stakeholder-based value propositions & document roadblocks
- Collaborate with COVESA and LSL to conduct quarterly roundtable/panels at events like CES, ITS America, AutoTech Detroit, Management Briefing Seminar (MBS), etc.
- Focus on adoption with Automotive OEMs, robotaxi companies, and commercial fleets (rental car, trucking, Government)
- Publish reports on key findings and recommendations

Connected Safety Journey Map (1 of 2)

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

Storyline
 Overall story that we're bringing to life

Value Proposition
 The value that each company and technology brings to this story



Sophia is a 24-year-old professional that is commuting to work in her new EV.

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

Recognizing that a collision has occurred, all three vehicles automatically flash hazard and other vehicle lights at a faster rate so that other drivers have more time to react, and Emergency Responders can see them.

In parallel, on-coming drivers receive an alert in their in-dash system so that they have even more time to react to the upcoming crash scene.

The nearby E911 center is notified and dispatches a police car, fire truck, and ambulance to the scene.

- 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.



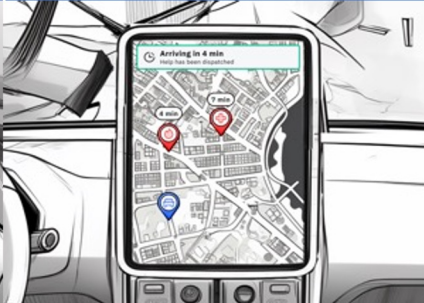


- Conspicuous lighting protects scene, gives other motorists time to slow down and move over, and helps locate vehicles that has left the roadway.

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

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

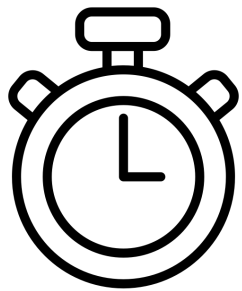
1. Separate Journey Maps can be used to capture the stories for the tanker truck and rental car occupants since they unlock different solutions and value propositions. The following scenes will focus on Sophia.

Connected Safety Journey Map (2 of 2)

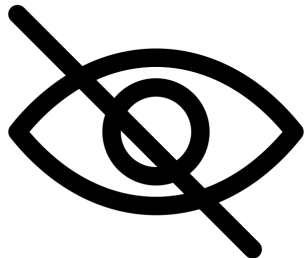
	Scene 5	Scene 6	Scene 7	Scene 8	Scene 9
<p>Imagery Cartoons, animated presentations, or demonstrations that bring storyline to life</p>					
<p>Storyline Overall story that we're bringing to life</p>	<p>The E911 Dispatcher sees that the tanker truck has leaked potentially hazardous materials onto the road.</p>	<p>Fire responders are provided a VIN-specific extrication guide for Sophia's EV.</p>	<p>Sophia sees a map indicating her location with icons for the responding vehicle location and their projected ETA.</p> <p>In parallel, family/emergency contacts are notified and provided the same map.</p>	<p>Responders arrive on scene and safely remove Sophia from her vehicle.</p>	<p>Sophia seems OK but is taken to the hospital for further medical evaluation.</p> <p>Vital health parameters are transmitted to the hospital while in transit.</p> <p>Family/emergency contacts are updated.</p>
<p>Value Proposition The value that each company and technology brings to this story</p>	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • 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. 	<ul style="list-style-type: none"> • Reduced response time decreases risk of secondary collision. • Proper on-scene care minimizes complications. 	<ul style="list-style-type: none"> • Sophia is safe and can focus on recovery. • Sophia's family knows that she's OK and where to meet her.

Reinventing the Airbag as a Next-Generation 9-1-1 IoT Connected Device

9-1-1 Dispatcher Challenges



Currently, it takes 2-3 minutes for 9-1-1 Dispatchers to promptly and efficiently deploy post-crash care resources when airbags are deployed.

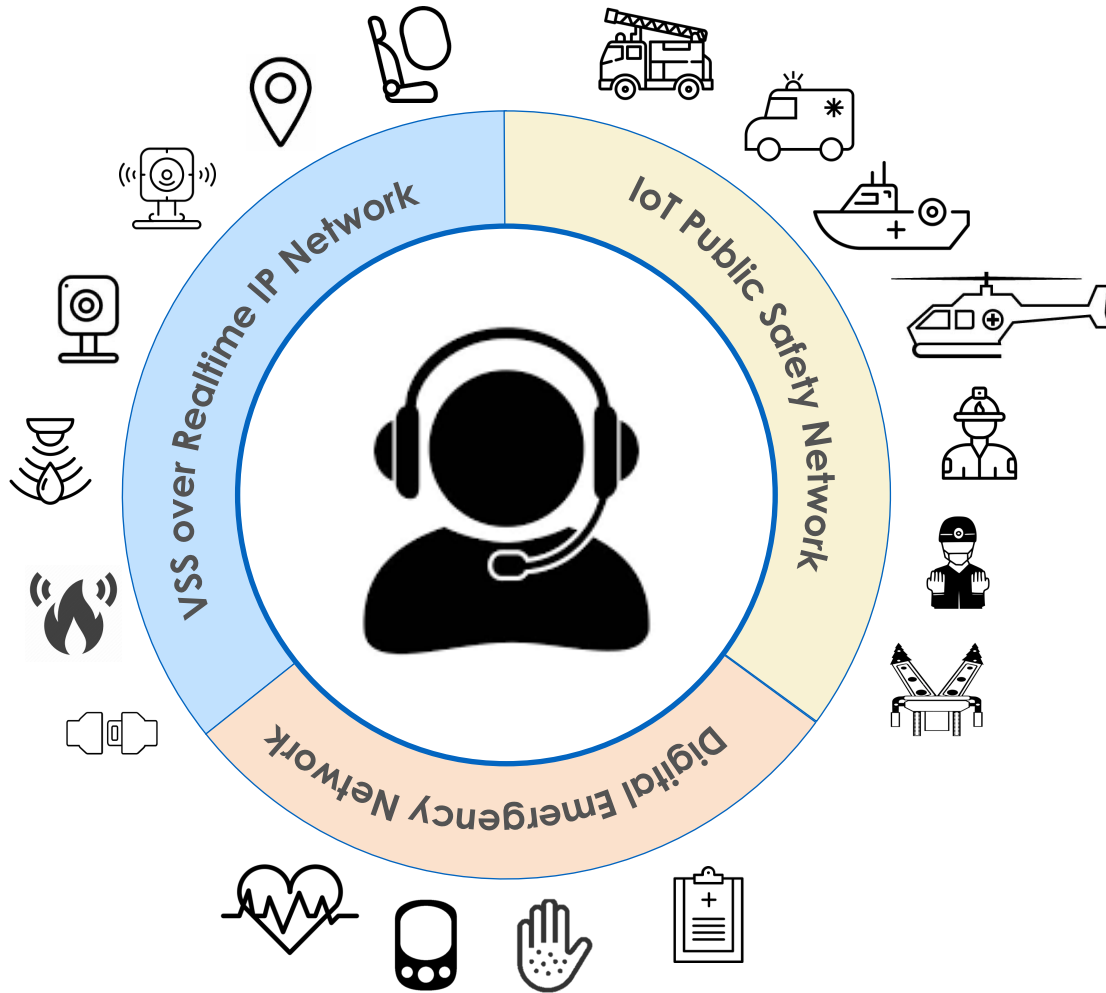


9-1-1 Dispatchers lack real-time IP-based visual insights to accurately identify, verify and deploy resources in response to airbag deployments.

Opportunity for Improvement

	Set-up	Scene 1	Scene 2	Scene 3	Scene 4
Imagery <small>Cartoons, animated presentations, or demonstrations that bring storyline to life</small>					
Storyline <small>Overall story that we're bring to life</small>	Sophia is a 24-year-old professional that is committing to work in her new EV.	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	Recognizing that a collision has occurred, all three vehicles automatically flash hazard and other vehicle lights at a faster rate so that other drivers have more time to react, and Emergency Responders can see them.	In parallel, on-coming drivers receive an alert in their dash system so that they have even more time to react to the upcoming crash scene.	The nearby E911 center is notified and dispatches a police car, fire truck, and ambulance to the scene.
Value Proposition <small>The value and technology story</small>		<ul style="list-style-type: none"> Automated submersion system enables rental car occupants to access fluids services and start of emergency response. 	<ul style="list-style-type: none"> Conspicuous lighting protects scene, gives other motorists time to slow down and move over, and helps locate vehicles that has left the roadway. 	<ul style="list-style-type: none"> Digital alerts work in tandem with lighting alerts to protect the scene and give motorists time to slow down and move over. 	<ul style="list-style-type: none"> Timely notification of vulnerable vehicle location reduces response time and further collision risk.
		Instantaneous IP notification			
Imagery <small>Cartoons, animated presentations, or demonstrations that bring storyline to life</small>					
Storyline <small>Overall story that we're bring to life</small>	The E911 Dispatcher sees that the tanker truck has leaked potentially hazardous materials onto the road.	Fire responders are provided a VIN-specific extrication guide for Sophia's EV.	Sophia see a map indicating her location with icons for the responding vehicle location and their projected ETA. In parallel, family/emergency contacts are notified and provided the same map.	Responders arrive on scene and safely remove Sophia from her vehicle.	Sophia seems OK but is taken to the hospital for further medical evaluation. Vital health parameters are transmitted to the hospital while in transit. Family/emergency contacts are updated.
Value Proposition <small>The value that each company and technology brings to this story</small>	<ul style="list-style-type: none"> Liability protection for responders what to expect Point Cloud image protects privacy since no identifying information is visible. 	<ul style="list-style-type: none"> Provisioning of battery system that may lead to fire or hazardous materials being spilled into environment. 	<ul style="list-style-type: none"> Awareness that a loved one is in danger, but help is on the way. 	<ul style="list-style-type: none"> Reduced response time decreases risk of secondary collision. Proper on-scene care minimizes complications. 	<ul style="list-style-type: none"> Sophia is safe and can focus on recovery. Sophia's family knows that she's OK and where to meet her.
		eyes on scene within 5 seconds			

Next-Generation 9-1-1 Dispatcher Information 'Wants'



- From / About Vehicle and Victims from onboard sensors
 - Location
 - Crash severity
 - Real-time imagery (in-cabin and outside situational awareness)
 - Vital health parameters (respiration rate, etc.)
 - Vehicle Make, Model, Color, Power Type

- From / About Vehicle and Victims from offboard web services
 - DMV (registered owner, stolen, amber, silver alert)
 - Emergency Medical Information
 - Emergency Contact Information
 - Vehicle Extrication Information
 - First Notification of Loss (FNOL) Information
 - Preferred Towing Information
 - Etc.

- Next-Generation 9-1-1 Dispatch Assets and Personnel
 - Availability
 - Location
 - Expertise

Let's hear from the experts....



PANELISTS



SCOTT CRAIG
SBC ADVISORS



JON BOEING
CONEKT.AI



STEVE COKER
SIRIUSXM
CONNECTED VEHICLE



MARTIN LUNDH
WIRELESS CAR



DAVE SEHNERT
RAPIDSOS



BRIAN TEGTMEYER
NHTSA

**NEXT GENERATION
CONNECTED PSAP
ROUNDTABLE**

**June
04,
2024**
—
2:00 PM
-
5:00 PM



Vision-Based Technology in 9-1-1 Public Safety

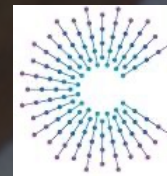
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**CENTER FOR
AUTOMOTIVE
RESEARCH**



COVESA

Accelerating the future of connected vehicles



LiDAR

SAVING LIVES



SCOTT CRAIG
SBC ADVISORS

Who We Are & What We Do

- We are an advising and consulting firm that helps Mobility Startups "Drive Their Business." Our expertise is based on a deep understanding of the mobility industry and the challenges that startups face. The firm provides guidance on how to navigate the complex regulatory landscape, develop a sustainable business model, and create a compelling value proposition for their customers.
- We work closely with the public and private sector, governments, civic leaders, NGOs, and local universities to help our clients succeed and to collectively shape the future of mobility. Our purpose is to accelerate realizing the promise of the future of mobility by convening and activating this rapidly evolving mobility ecosystem.
- We offer a range of services including strategy development, business model innovation, customer experience design, and technology implementation.

Over 38 years in the Automotive Industry

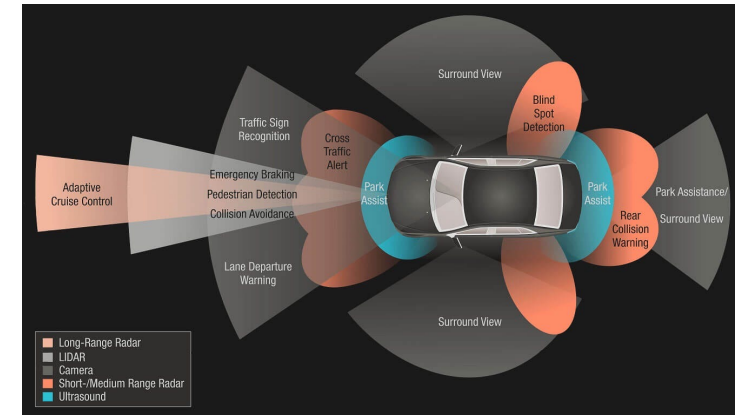
Degrees in Physics, Electrical Engineering
Working on Masters of Theology

Lead the Americas



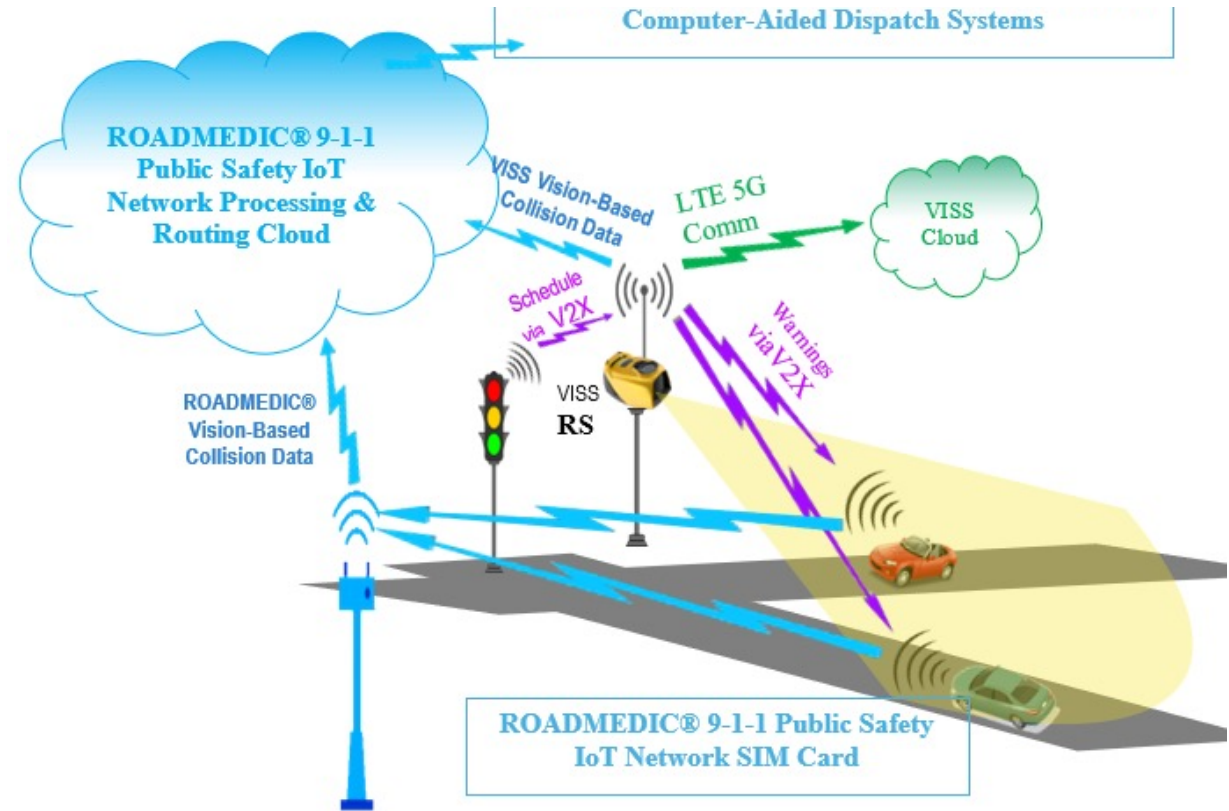
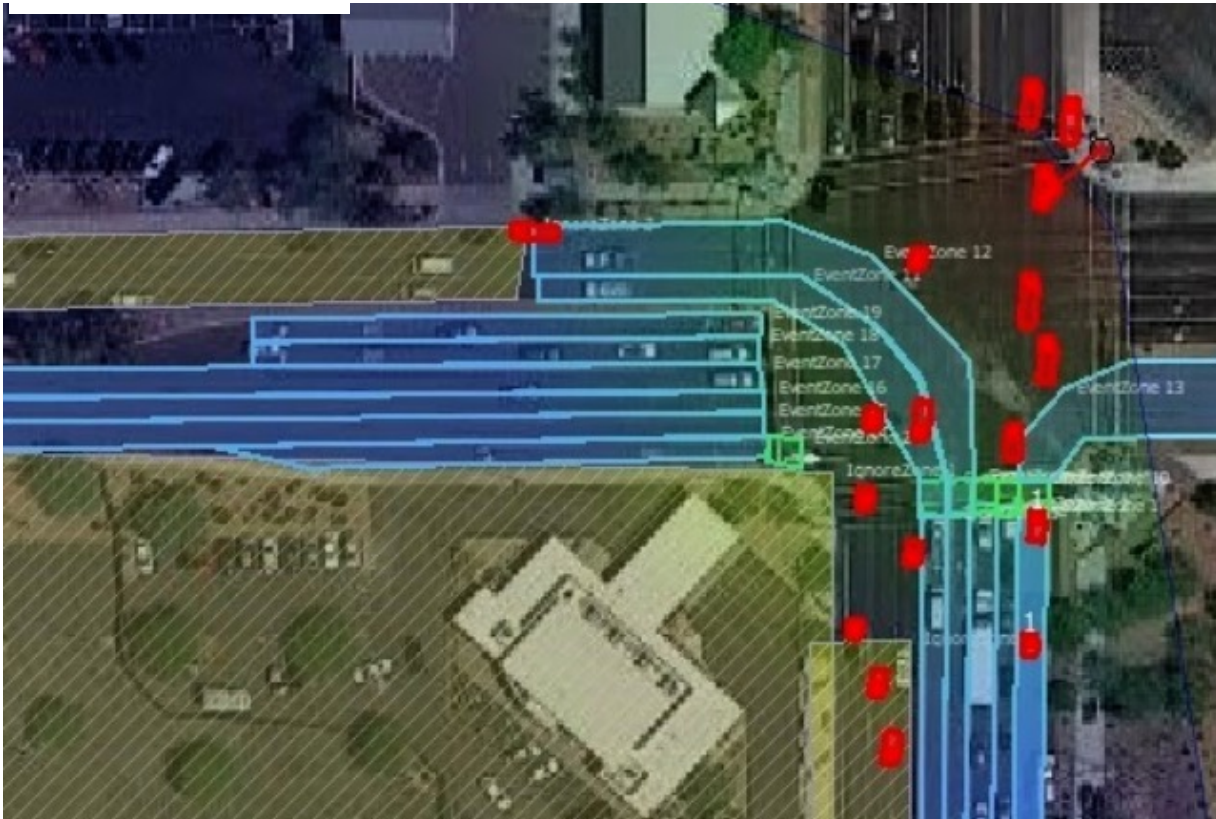
Executive Leadership Roles
25 years in Semiconductors



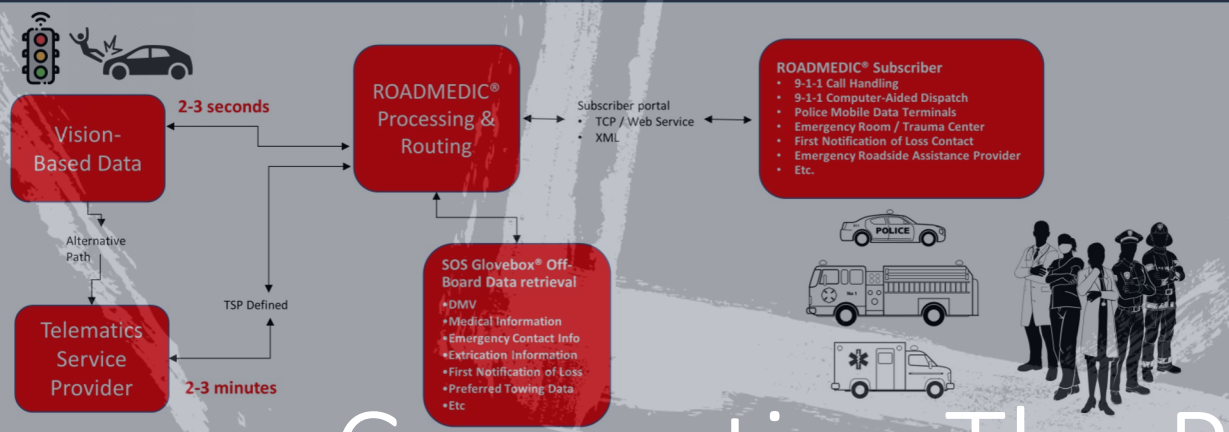


REAL-TIME IMAGERY (IN-CABIN AND OUTSIDE SITUATIONAL AWARENESS)

VEHICLE IMPROVED SAFETY SYSTEM (VISS) High Level Architecture



Next-Generation 9-1-1 Intelligent Crash Data NetworkSM High Level Architecture



Connecting The Pieces of the Puzzle

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Enabling the airbag as an IoT device into CAD

Creating Standards



Thank You

[ESS DVN DRAFT.pptx](#)



SCOTT CRAIG
SBC ADVISORS

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JUNE 4th, 2024

PREPARED FOR:

NEXT GENERATION 911 CONNECTION PSAP ROUNDTABLE

Presented by:

Jon Boeing

OUR WORLD IS NOT ABOUT JUST CONNECTING THINGS,
IT'S ABOUT CONNECTING PEOPLE

Who Are We?

Conekt.ai Inc. (“Conekt”) is on a mission to help the world be connected, anytime and anywhere. Based in San Diego, CA, our team is committed to help customers manage their global connectivity no matter what type of device they have, or which network they want to utilize.

- ☉ Bring your own carrier and bring your own SIM provider model.
- ☉ Primarily focused on monthly recurring revenue license model.
- ☉ Eight direct Mobile Network Operator integrations for localization by end 1H 2024.
- ☉ Global SIM/Device orchestration, management & analytics
- ☉ Provides SIM/Device/Data Connectivity cost and usage reports
- ☉ Global account management & hierarchy
- ☉ Hosted in global cloud environments for costs and coverage control
- ☉ First platform for multi-network management (Public, Private, Wi-Fi, SatCom)



Conekt is in high-growth stage and is focused on serving the public safety, telecom, automotive and IoT markets. With an expertise in hardware, networks, payments, and auto, we're ready to coneckt!

A Crazy Connected World in PSAPs

Past in mind....



Present state...



...and a future often far away.



A Crazier Connected World in Telecom & Auto

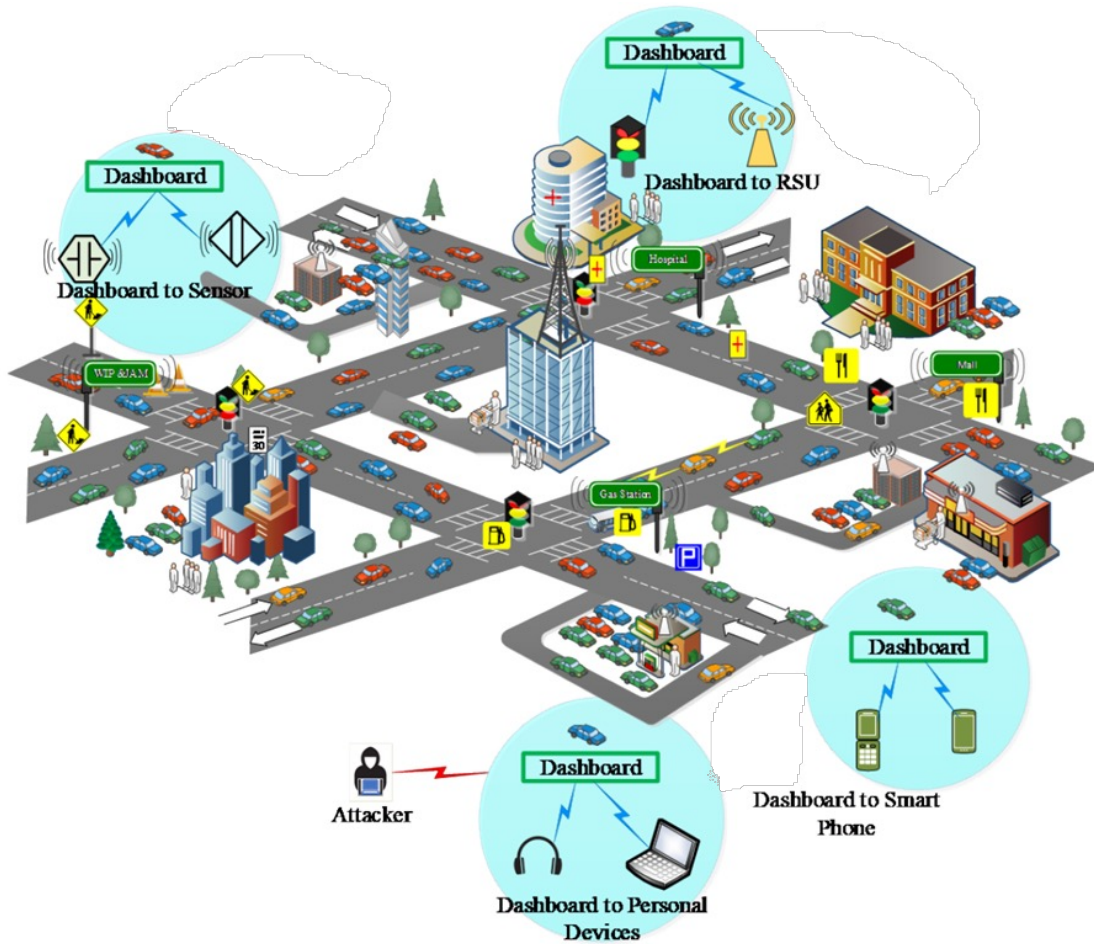


Figure 1. In-Vehicle security scenarios with possible threats.

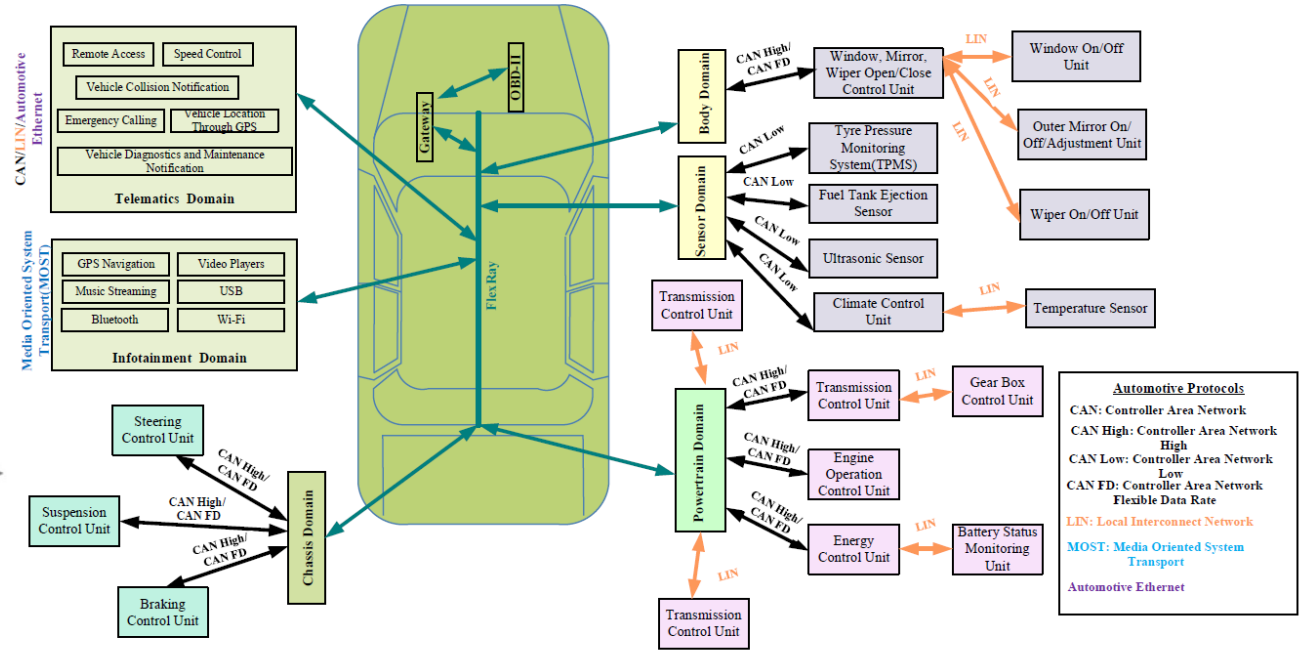
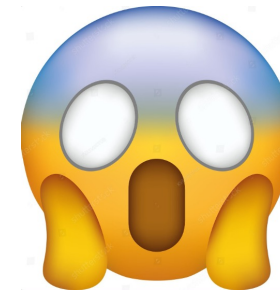
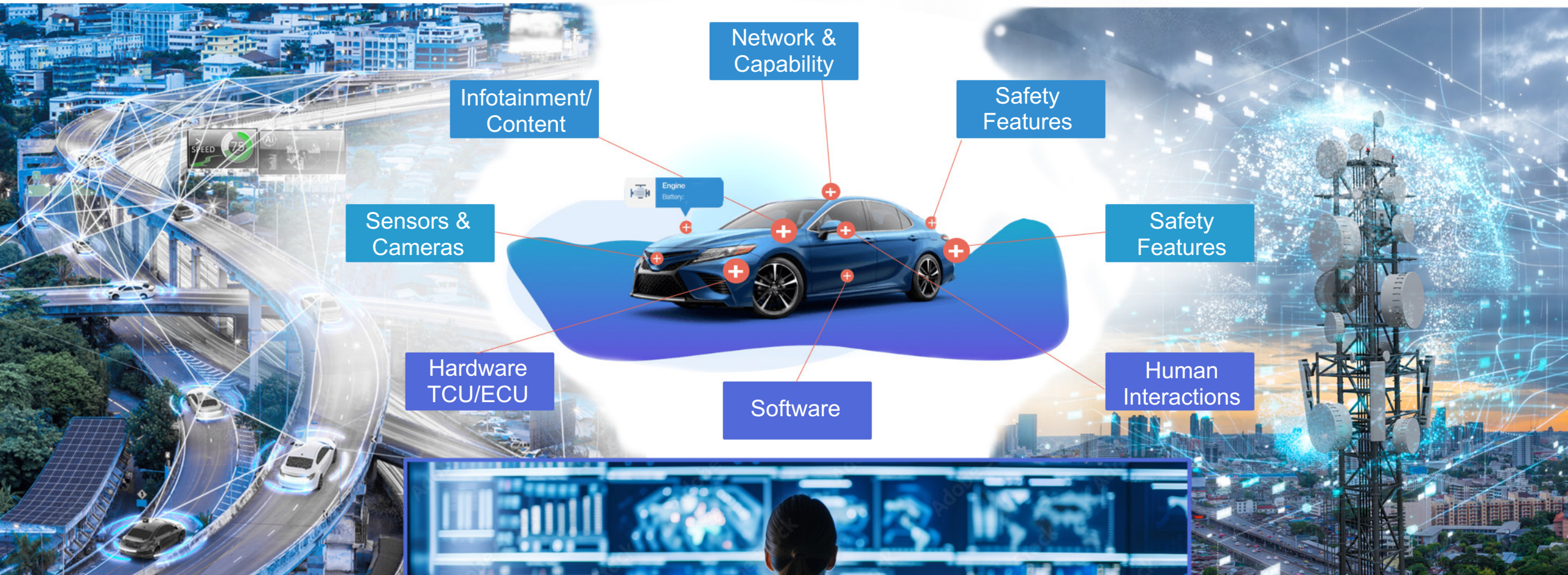


Figure 3. In-Vehicle Network Architecture with Automotive Protocols.





Key Factors in Value Chain



WHO?

Engineers
Product & Product Managers
Tech Partners,
Leaders, Government

WHY?

Safety
Security
Efficiency

To progress we must ask ourselves....

Is 5G really faster? How fast is fast enough? 1 sec, 5 sec?

Are government networks (ie FirstNet) actually more reliable? Faster?

Are standards more important than our Why? (ie Apple, Starlink etc) Why must we wait?

Did you know we can sense an airbag deployment by a haptic feedback on a phone?!!

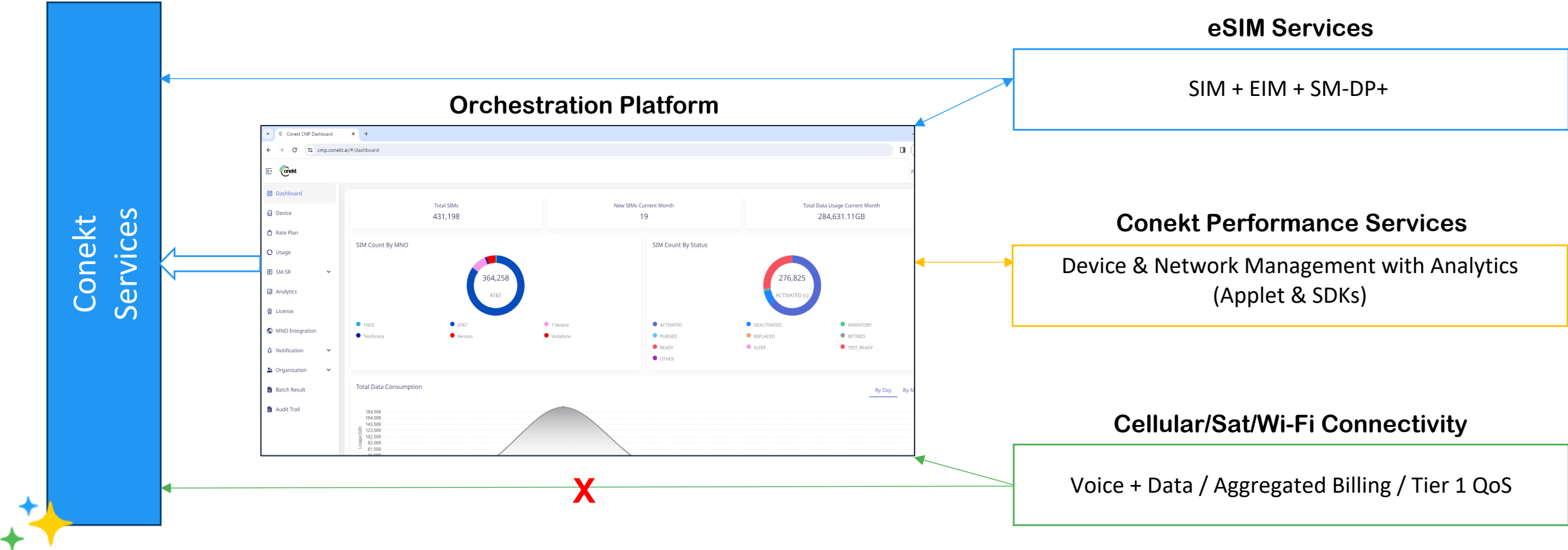
Why does it have to be one versus the other? Can't we support which ever tech and whomever is willing to pay to serve our 'why'?

Why aren't we helping each other more to complete the ecosystem for win-win-win (Tech Partners +Gov+ End User) models.

All the technology is available now, it's up to us!



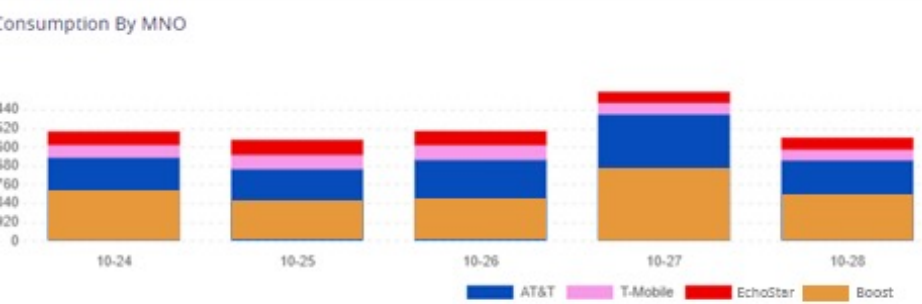
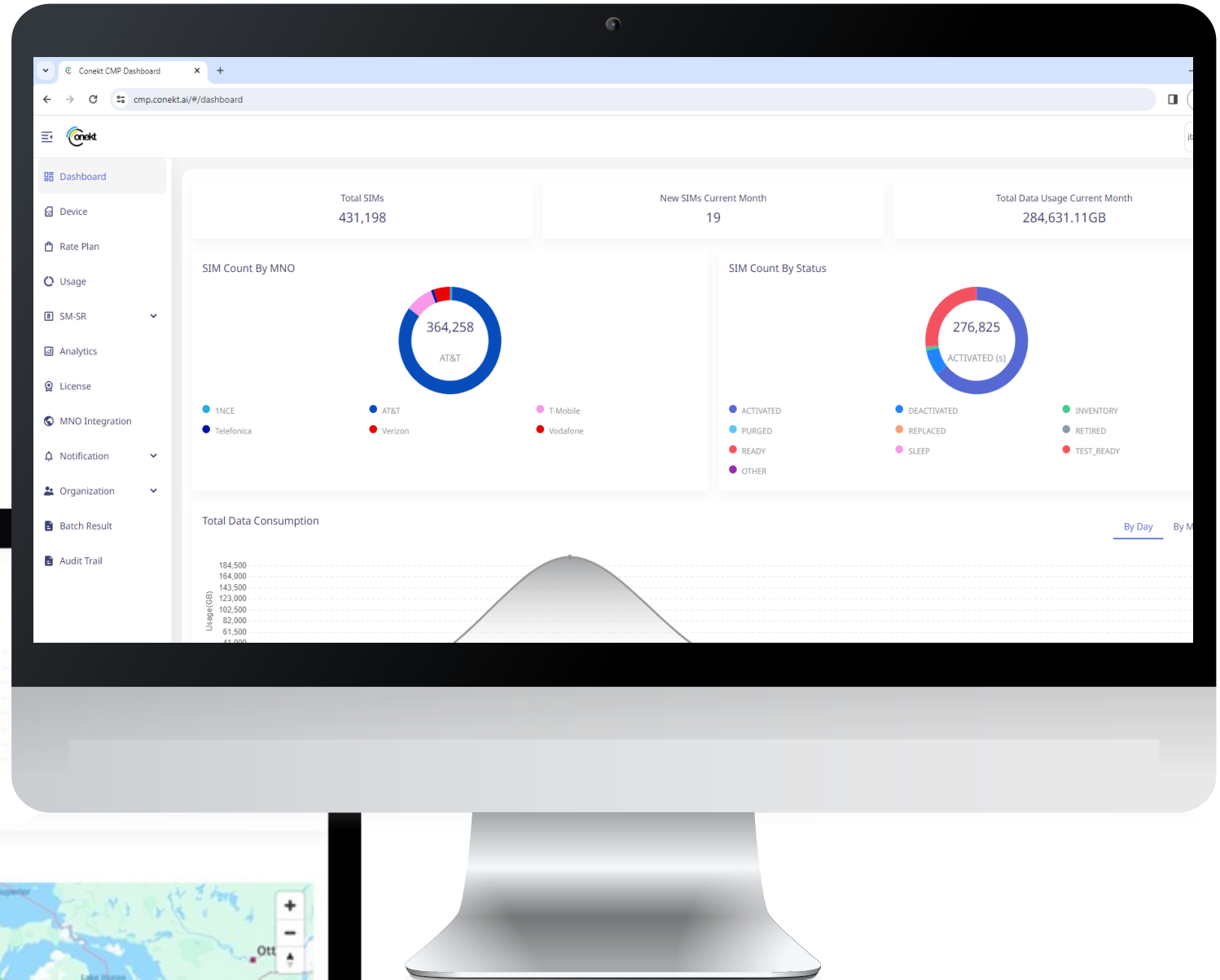
Conekt Service Offerings





Your Connectivity Orchestration Dashboard

- Total Aggregated Data Usage
- Device + Network Allocation
- Sim Status Metrics
- Total Data Usage Daily/Monthly
- Key Location Metrics
- Strategic Migration Actions
- Enterprise Ready

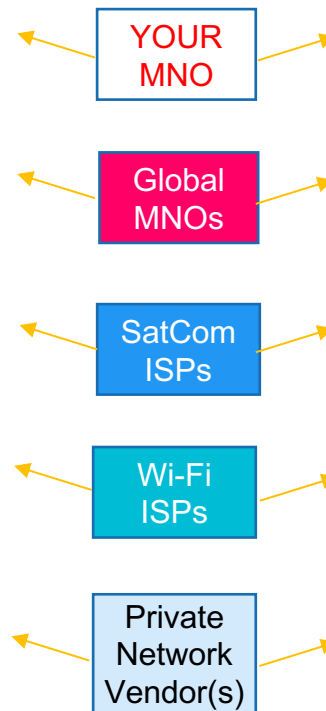


CHALLENGES

Consumer Mobility

- Incorporate both legacy systems and new systems (ie M2M vs Consumer)
- Ability to benefit from coverage gaps with private network deployments
- Lack of company wide cost control
- Minimal automated tools for network switching leaving control to enterprise
- Visibility into usage and costs across all networks
- Allow unique billing options for customer direct & content partners

NETWORK



Enterprise / IoT

- Fragmented IoT billing systems
- No global ecosystem cohesion
- Need to have system in place to manage multiple technologies and partners
- Don't have tools to sell localized connectivity (roaming only)
- Need quick routes to market both M2M and Consumer eSIM standards to show flexibility to customers
- No aggregated approach to multi-network and asset management





WHY CONEKT?

Control Your Own Conektivity

- End-to-end management from HW, SW AND NETWORK
- Take power to negotiate with carrier direct or leverage direct partners
- Plan for long-term growth
- Manage legacy sims and new device frameworks for orchestration

eSIM Strategy

- SGP .32 is ready, don't get behind!
- Execute eSIM/SM-SR deep integrations for network enablement (already complete with Thales, pending G+D)
- eSIM Profile Management (8): AT&T, Dish, TMO, US Cellular, Vodafone, Telefonica, Verizon, 1NCE

Tech is Here!

- Global scale is capable now
- Satellite is here with cost control!
- Don't have a network, build one
- Focus on direct tech partnerships vs out of control costs





Thank You



OBJECTIVE

Enable companies to develop, implement, and deploy a connectivity orchestration layer in Public Safety, Auto and IoT industries to manage public, private, government, and satellite networks.

- Orchestrate your ISPs to have internal metrics, cost control, and management across entire business.
- Integrate your SIM/Device management systems & analytics for connectivity optimization.
- Provide SIM/Device/Cost reports in all segments.
- Account management & hierarchy for all stakeholders.
- Hosted in global cloud environments for global scale.
- Promote first carrier to have multi-network management (Public, Private, SatCom)

CHALLENGES

Private Networks

- Most private network vendors don't have full ability for A-Z deployments
- Ability to provide end-to-end white-labeled solution for multiple use cases
- Lack of multi-network orchestration
- Flexibility to leverage various spectrum assets.
- 4G, 5G, and IMS stack compatible.
- Experience in urban and rural areas to leverage mobile and satcom network deployments.

Satellite Communications

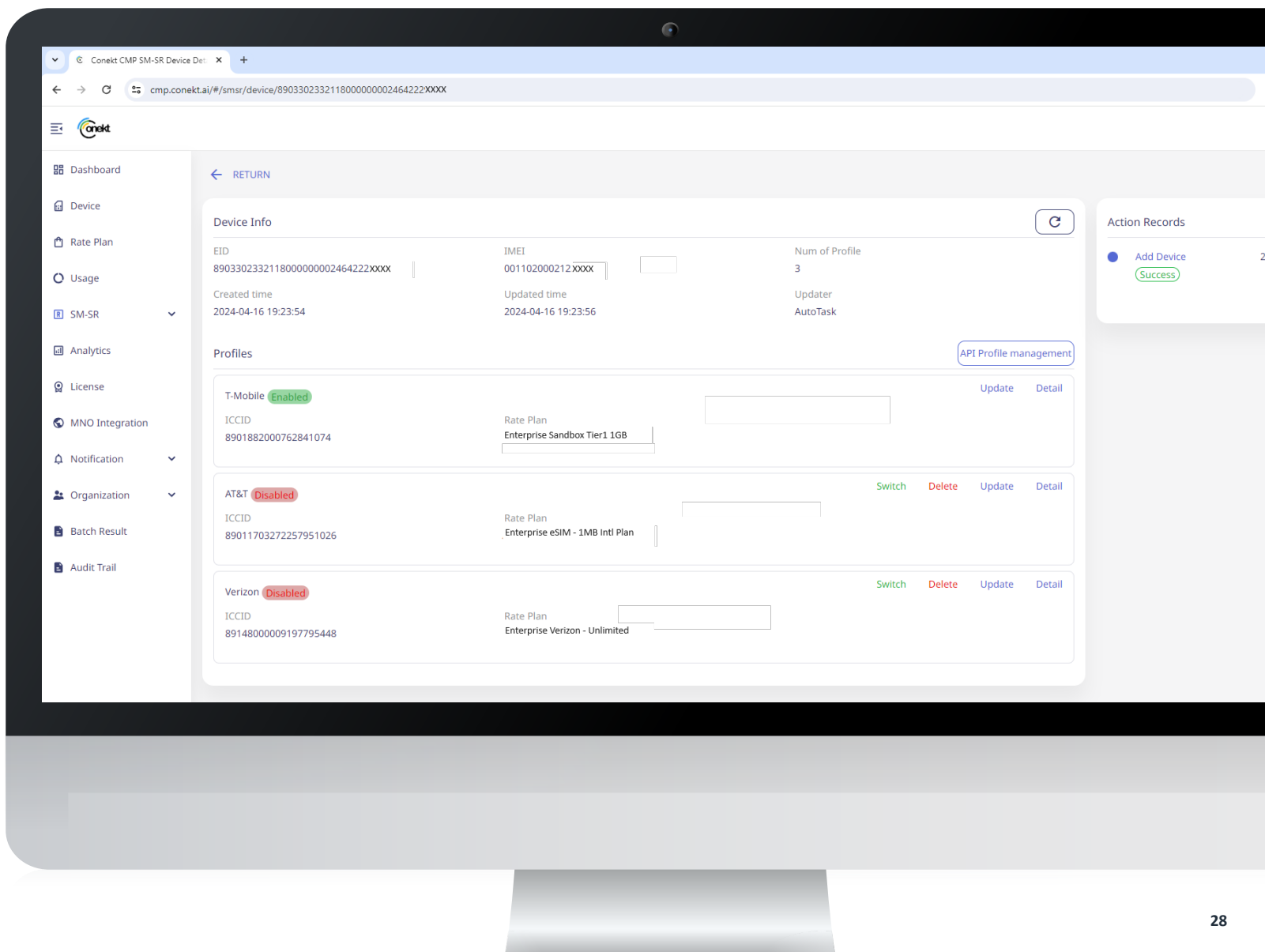
- NTN strategies are forming now
- No orchestration with cellular network to cater to large enterprise needs.
- Inability to leverage infrastructure with mobile networks and partners for all use cases (consumer and enterprise).
- Can't leverage mobile assets for best-in-class deployments.
- Lack of SatCom and or joint LTE hardware management projects.





Your Platform, Your MNO Control

- Manage your MNO profiles
- Switch when you want
- Remove and download on-demand
- View device ICCIDs
- Batch profile migrations
- Control & optimize your costs
- Improve coverage





Your Business Actions

Multi-User Management

Migrations

The Migrations page displays configuration for three entities: G+D, Idemia, and Thales. Each entity configuration includes an Address, SM-SR ID, Username, and M2M-SP ID.

The Multi-User Management page shows a sidebar menu, a table of roles, and an 'Add' panel for creating new roles.

Role name	Count	Created time
Admin	28	2023-04-07 20:03:11
General	13	2023-04-28 06:06:55

The 'Add' panel includes a 'Role name' input field and a list of permissions to be assigned to the role.

MNO Integrations

The MNO Integrations page displays a grid of MNO integration cards. Authorized MNOs are shown with a green 'Pass' indicator, while unauthorized ones are shown with a red 'Failed' indicator. Each card includes the MNO logo, name, status, and a 'More detail' button.

MNO Name	Status
T-Mobile	Authorized (Pass)
AT&T	Authorized (Pass)
Verizon	Authorized (Failed)
1NCE	Authorized (Pass)
Telefonica	Authorized (Pass)
Vodafone	Authorized (Pass)

USE CASE

Marquee Customer

- One of worlds largest device manufacturers.
- Multiple business units with use cases that cover most IoT sectors and products.
- Global device deployments including automotive
- Quick entry into large tech partnerships.
- Leverage internal use case for direct external partnerships via AWS Partner Network.
- Joint GTM commercials with ecosystem
- 3-month ROI to Procurement and Business Units
- First large enterprise to manage multiple MNO profiles in one dashboard.



Transportation

Drones

Fixed Wireless
(security & monitoring)

Consumer Products

The complex block contains several images and text labels. At the top left is a white self-driving car with sensors. To its right is a dark grey delivery van. Below the car is the label 'Transportation'. In the middle left is a large yellow locker unit with the word 'locker' on top. To its right is a white quadcopter drone. Below the locker is the label 'Fixed Wireless' with '(security & monitoring)' underneath. Below the drone is the label 'Drones'. At the bottom left are three white circular IoT devices and a black multi-antenna router. To the right of these are two circular icons containing various consumer IoT products like smart speakers and sensors. Below these icons is the label 'Consumer Products'.

DISCLAIMER

Conekt.ai, Inc. (the “Company”) Legal Disclaimers and Notifications

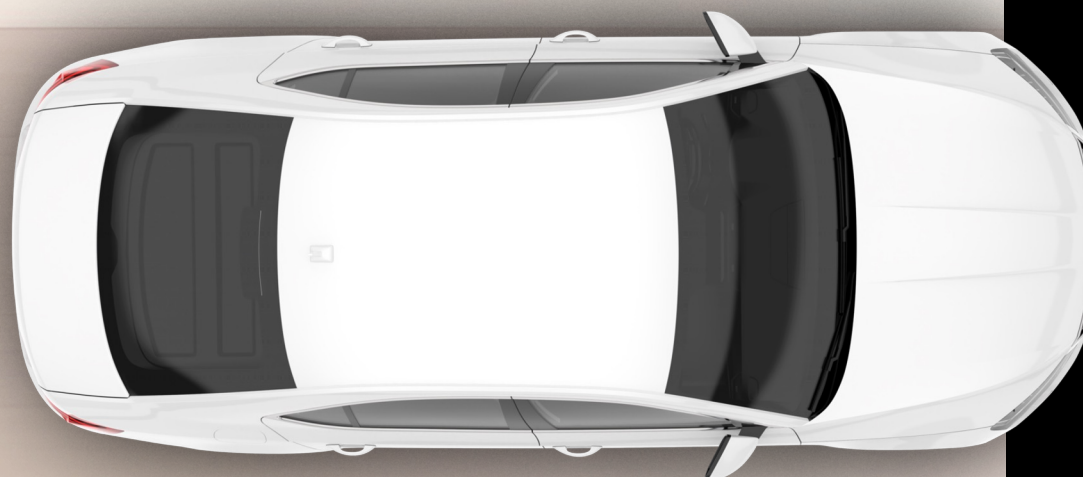
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Assumptions relating to Forward-Looking Statements involve judgments with respect to, among other things, future economic, competitive and market conditions and future business decisions, all of which are difficult or impossible to predict accurately and many of which are beyond the Company’s control. When used in this presentation, the words “estimate”, “believe”, “project”, “intend”, “expect”, “may”, “will”, “should”, “anticipate”, “plan”, “predict”, “potential” and other similar expressions are intended to identify Forward-Looking Statements. Although the Company believes that assumptions underlying the Forward-Looking Statements are reasonable, any of the assumptions could prove to be inaccurate and, therefore, there can be no assurance that the results contemplated in the Forward-Looking Statements will be realized.

The Company’s business decisions are subjective in many respects and susceptible to interpretations and periodic revisions based on actual experience and business developments, the impact of which may cause the Company to alter its business strategy which may, in turn, affect the Company’s results of operations. In light of the significant uncertainties inherent in the Forward-Looking Statements, the inclusion of such information should not be regarded as the Company’s representation that any strategy, objectives, or other plans will be achieved. The Company disclaims any obligation to update or revise any Forward-Looking Statements.

Driving the future of vehicle connectivity



30 YEARS
OF TELEMATIC
INNOVATION

50+
CONNECTED
VEHICLE SERVICES

13 MILLION
ACTIVE SUBSCRIBERS

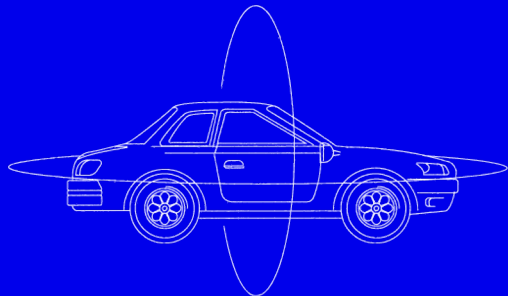
15+ ACTIVE
OEM PROGRAMS

The modular, end-to-end connected vehicle solution for customized integration at speed

HOLISTIC

EASY INTEGRATION

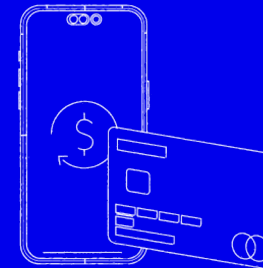
MODULAR



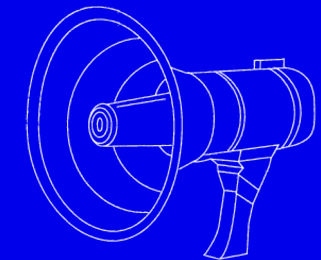
TELEMATICS



CONTACT CENTER

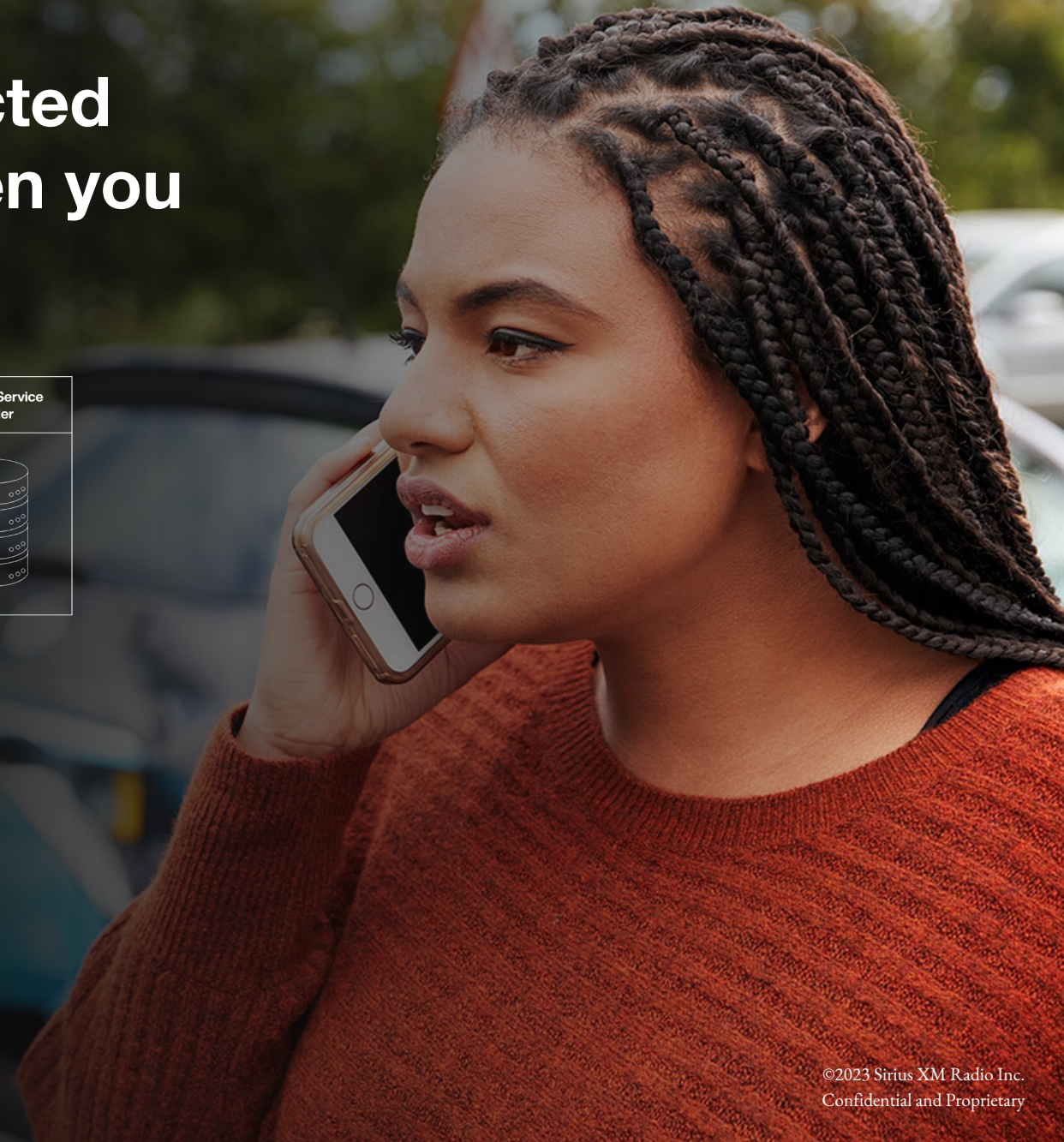
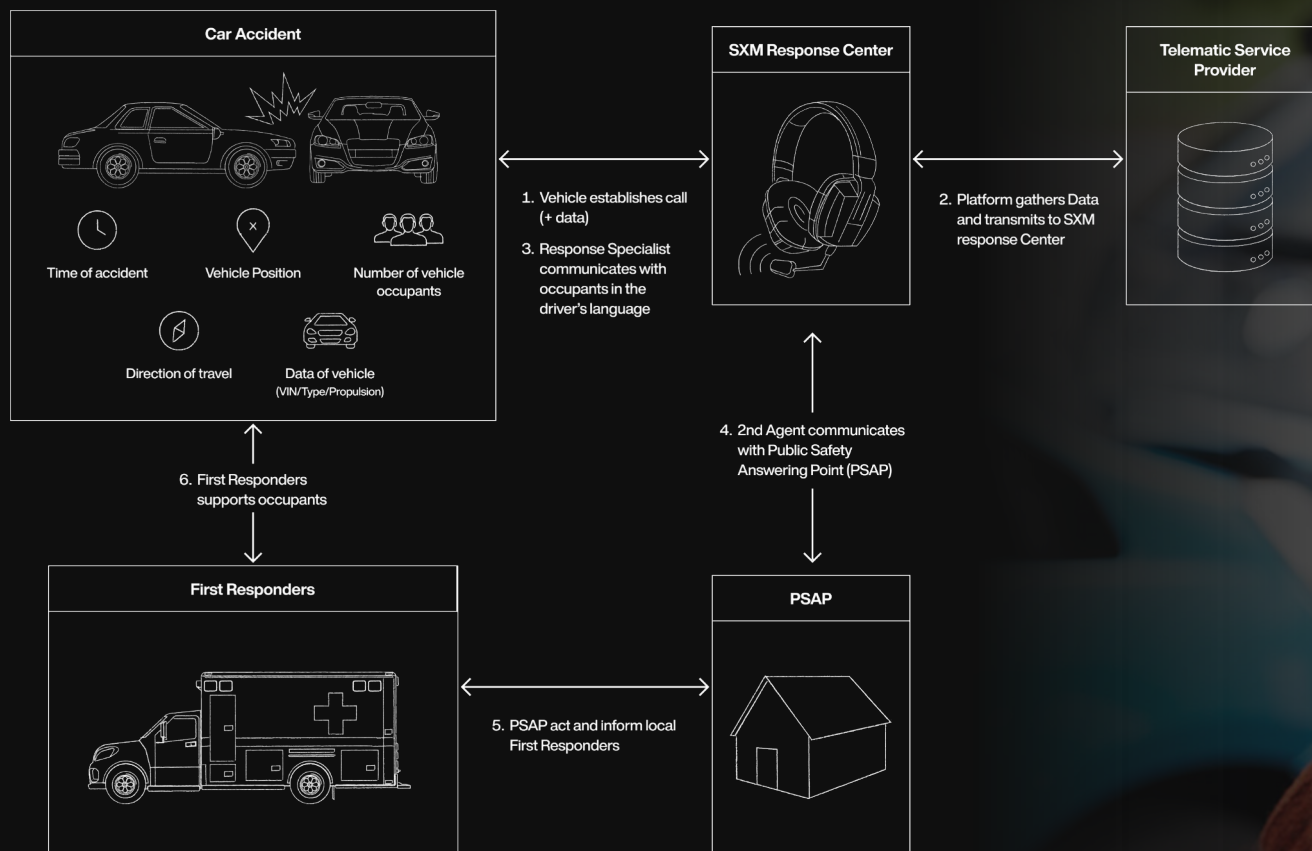


BILLING + SUBSCRIPTION MANAGEMENT



DEDICATED MARKETING SERVICE

The modular, end-to-end connected vehicle solution that is there when you need it the most



**No matter how careful you are,
*life happens.***



Years of expertise lay the foundation for strong connections that enable life-saving interventions

SiriusXM Connect with RapidSOS provides industry-leading emergency response by sharing critical data with 911 call centers digitally, **minimizing the amount of information that must be verbally communicated** to first responders.

TIME SAVED,
SAVES LIVES.

FOR VEHICLES IN THE
FUTURE OR ON THE
ROAD TODAY.

> 98% OF
POPULATION
COVERED IN THE U.S.



Industry Challenges
**Regulatory
Framework**



Industry Challenges
Consent in Real Time



Industry Challenges
Privacy



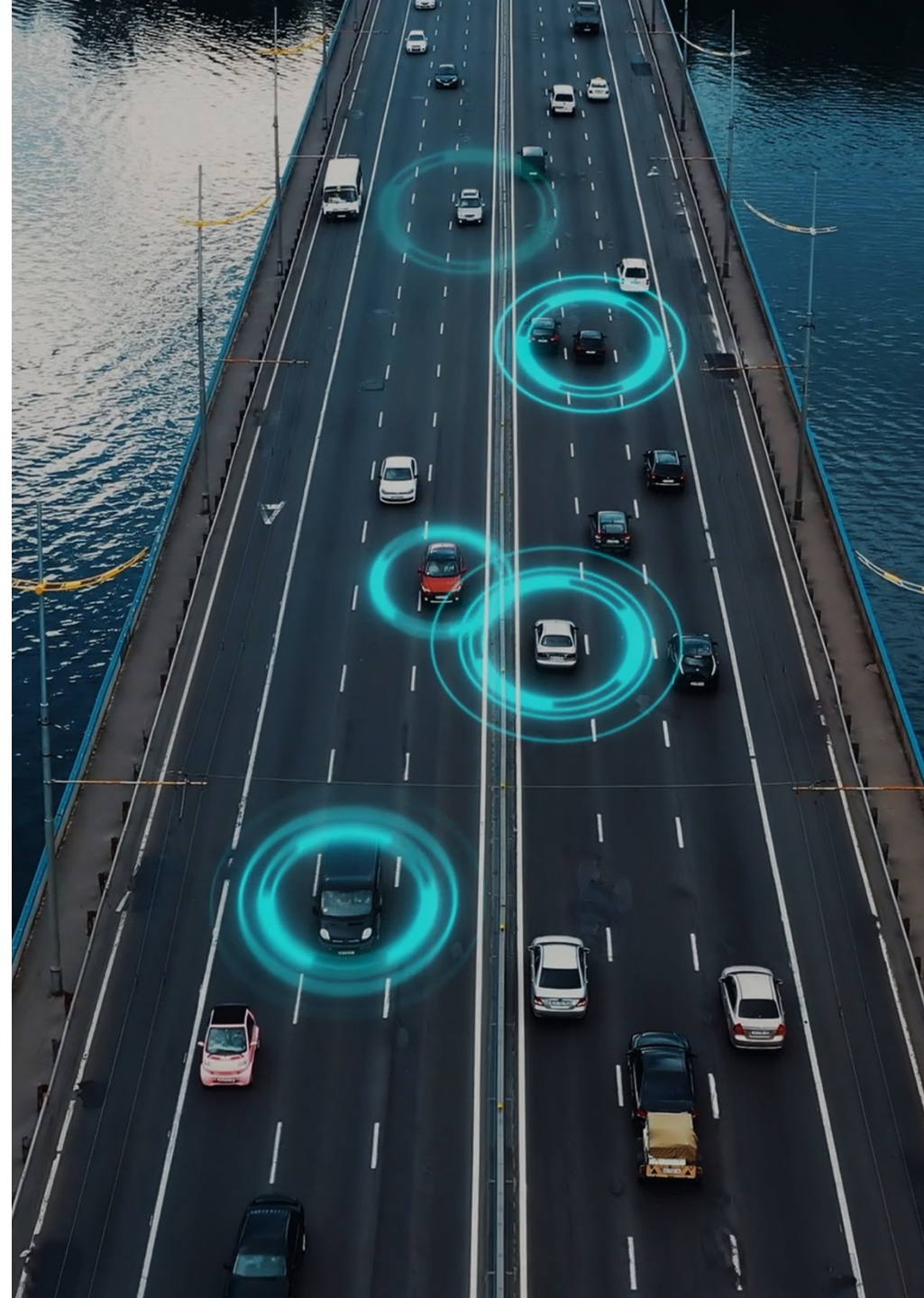
WirelessCar



We are WirelessCar

Enabling safe, smart and sustainable mobility

- A global company with headquartered in Sweden, 760+ colleagues and presence in North America Europe and Asia.
- For 25 years we have turned vehicle data into new insights and innovative services
- A trusted tech partner offering our unique expertise through products and digital services
- 12+ million vehicles served in more than 105 countries



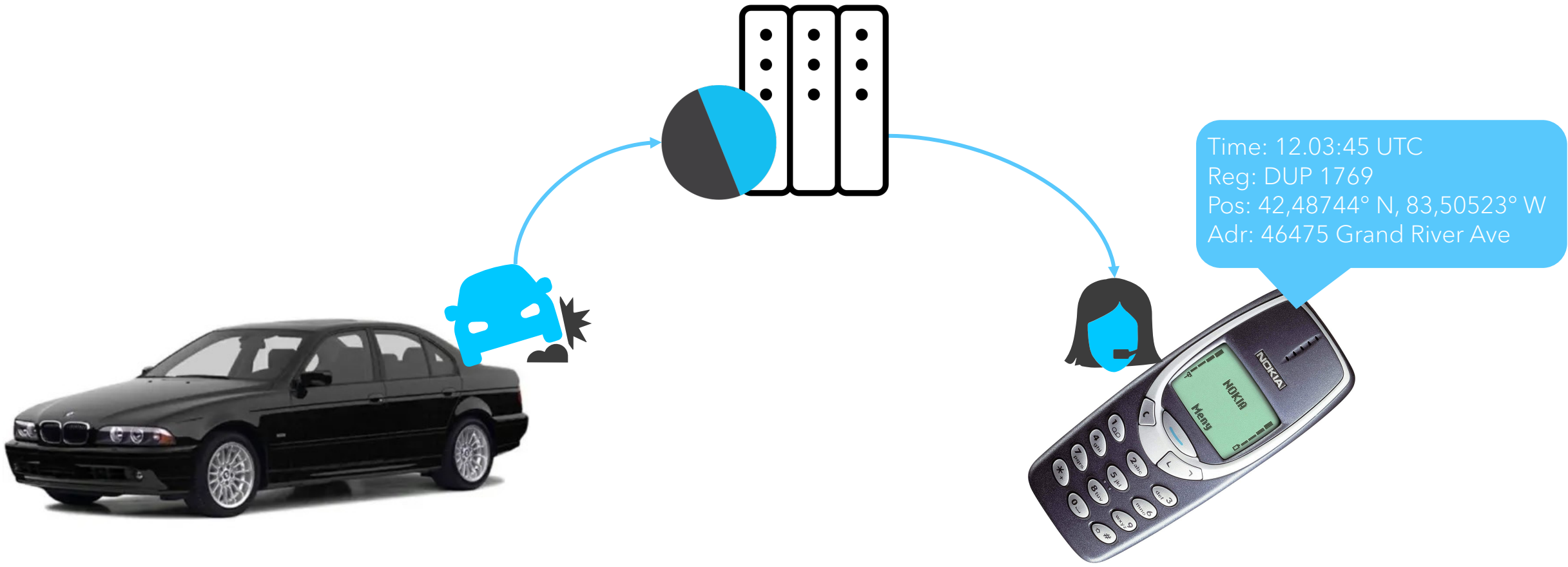
Call Center Services - WirelessCar Mission



The Mission

Provide the right help, to the correct location, with the right equipment, as quickly as possible.

How Our Journey Started



Improve the Context

The core objective is to save more lives, followed by helping people cope with moments of anxiety and distress.



Information commonly available today:



Precise location of the event



Number of occupants



Are occupants belted



Speed of the collision



Which SRS components were deployed



Vehicle Details



Information sometimes available today:



Language of driver



Which collision system was triggered



Likelihood of injuries



What is not fully achieved today:



Clear executive summary of the collision



Make the data and context easily sharable



Evidence of the credibility of the data

Active Case Report

Service	Status	Case Taken	Closed	Reported
ACN	Started	9/23/23, 7:03 PM		
	Last Event	9/23/23, 7:13 PM	Request acknowledged by vehicle	

Summary Copy ID

Main Info Customer Vehicle

Karin Alvbring

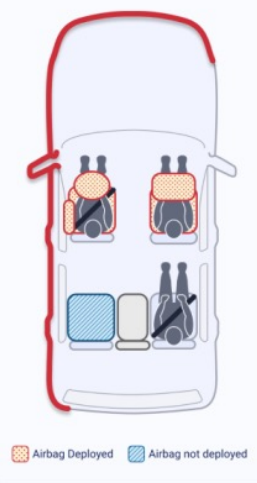
Mobile Phone: +46 0761274569
External User ID: Unspecified

Email: jhon.wilse2@gmail.com
Brand: Cars AB

[Close case](#)

Collision details

- Airbags
- Belts
- Collision Area



Collision Information Airbag status Seat belt status

Front Back

Driver

- Seat front deployed
- Seat cushion deployed
- Seat side deployed
- Seat knee fired not equipped

Passenger

- Seat front deployed
- Seat cushion deployed
- Seat knee fired not equipped

Curtains

- Not equipped
- Not equipped

Address: Frihamnen 16A, 417 55 Göteborg, Sweden Update vehicle position

Latitude 57.725889 Longitude 11.961288 Heading East 80° Speed 34 km/h

Tängen

The content of this image has been simulated. No real data was used.

The Value Chain



OEM



Connectivity



Occupants



TPS Call Centre



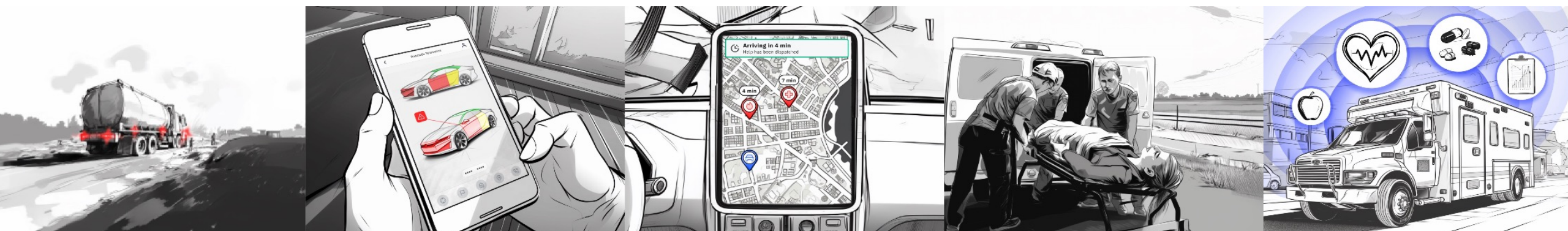
PSAP



First Responders



Give information that matters for PSAPs to provide better help, to the correct location, with the right equipment, faster than today.



Let's connect

Martin Lundh
Product Portfolio Manager

RapidSOS 

RapidSOS Overview

Intelligent Safety for Connected Vehicles





Your unique end-to-end solution

Delivering critical data at every stage of the emergency response process

540M+

Devices connected

RapidSOS works with industry leaders to deliver critical data in emergencies.

99%

Population coverage

RapidSOS is the trusted data provider for over 5,700 ECCs nationwide.

21,000+

First Responder agencies

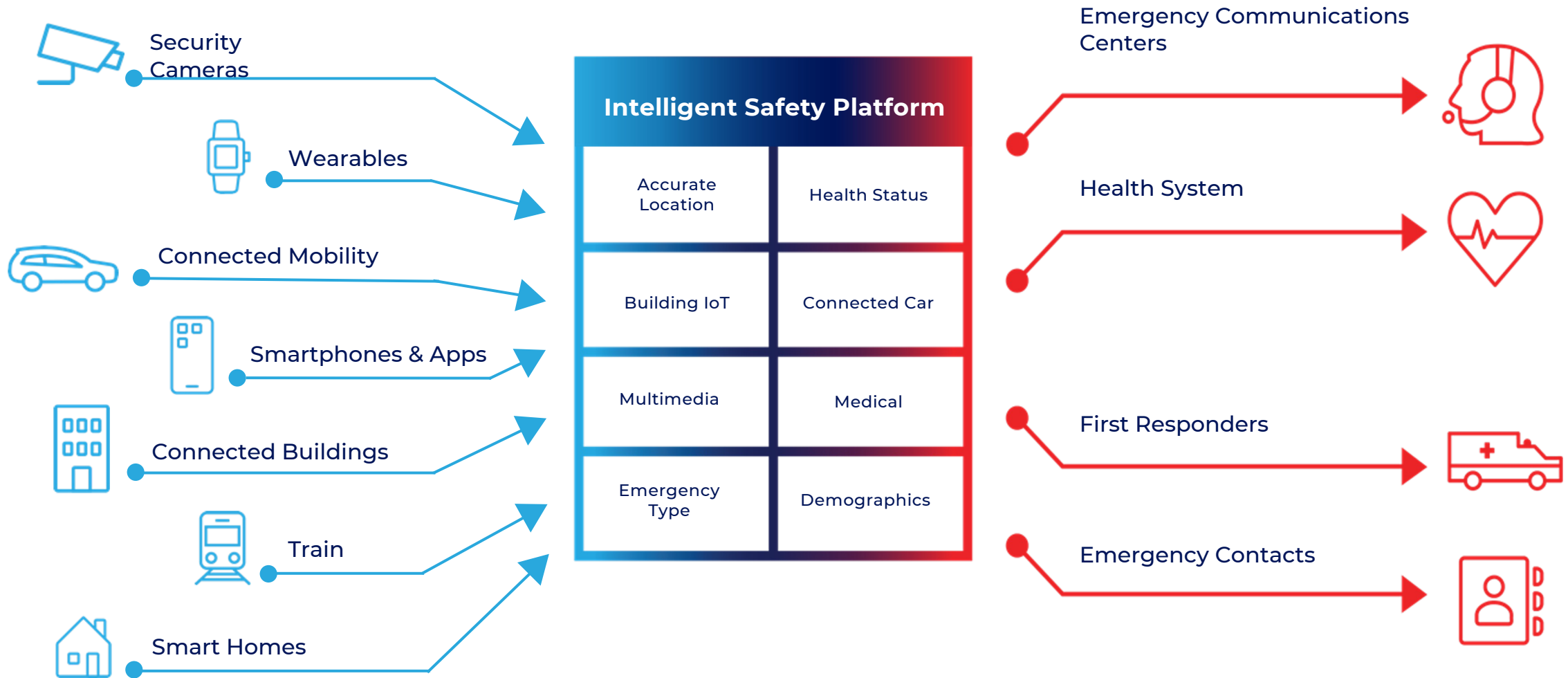
RapidSOS puts data directly into the hands of 1M+ field responders.

171M+

Emergencies annually

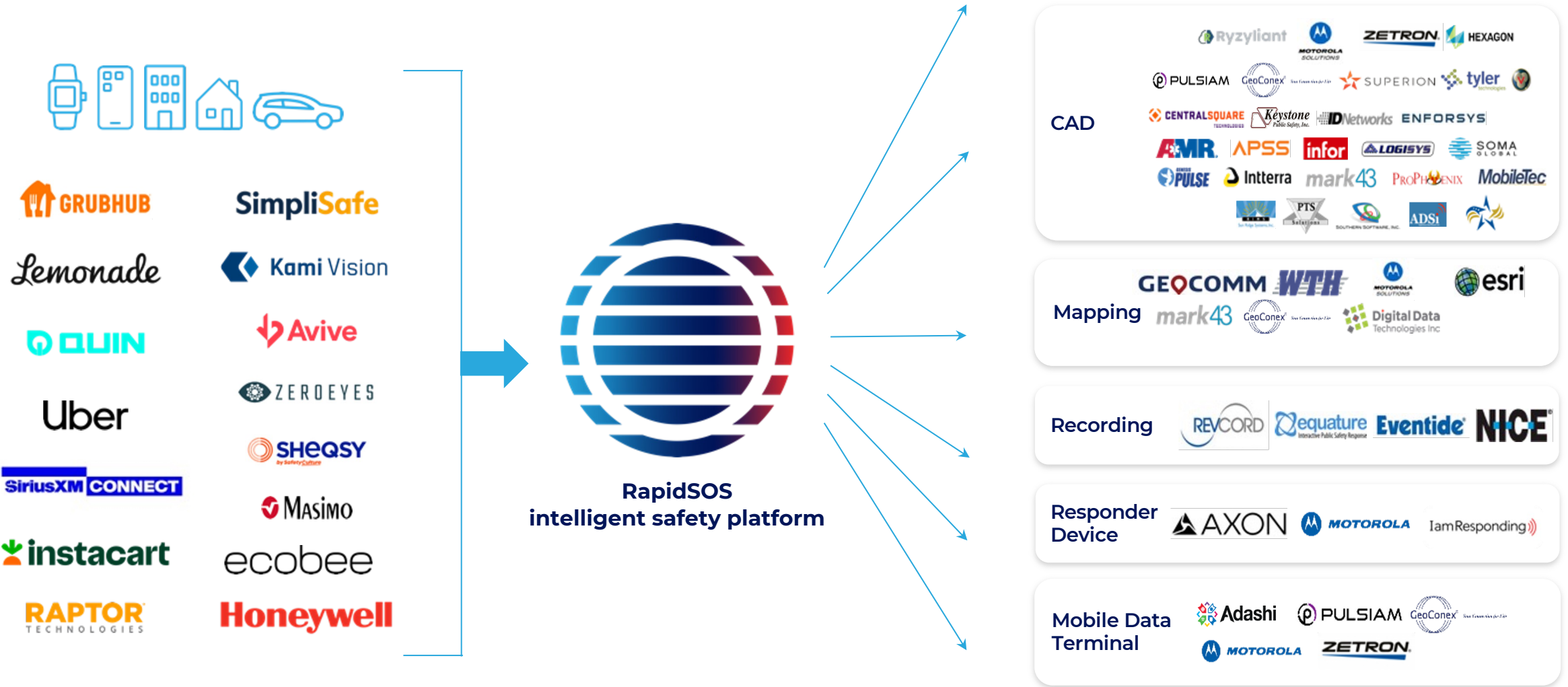
RapidSOS supports critical emergency operations in millions of times each year.

RapidSOS: Integrated 911 Data into a Unified Platform for First Responders



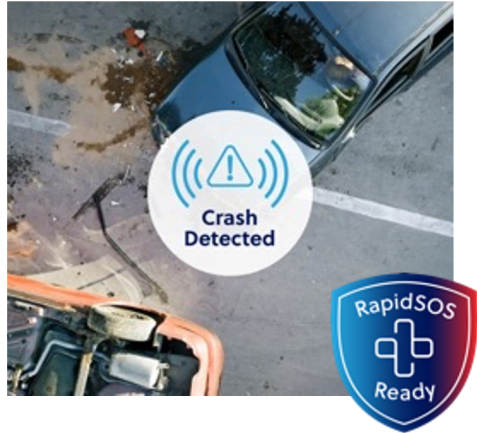
Public Safety's Most Connected Platform

Delivering data to 911's existing workflows



Note: RapidSOS works with over 100+ technology companies, the logos displays do not represent the full list of partners

How Data Delivery works with RapidSOS



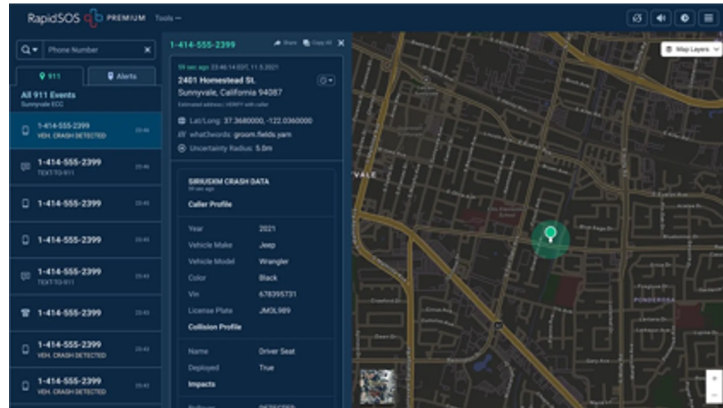
1. An accident is detected by an ACN+ enabled vehicle



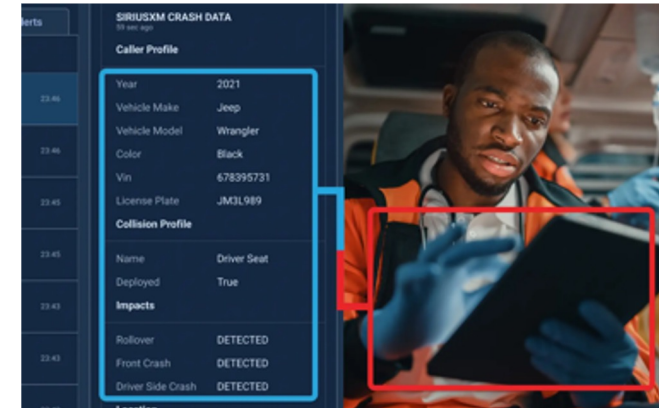
2. SiriusXM receives crash notification and incident data from ACN+



3. SiriusXM Emergency Response Specialist escalates to 911 digitally through RapidSOS



4. The data is immediately shared with the Emergency Communications Center through RapidSOS



5. First responders have more incident intelligence and can arrive on scene better informed

Curated supplemental data = faster and better informed response

Data source	Data type	Importance
Vehicle	VIN, Make, Model, OEM, Year, Color	First Responders can quickly ID the vehicle
Location	Latitude, Longitude, Timestamp, Uncertainty, Bearing	Faster response with accurate location and vehicle direction (i.e which side of the interstate)
Seat & airbags	Seats (Row, Side, Occupancy, Belt) Airbags (Name/location, Deployed)	Help determine the amount of possible ambulances based on vehicles occupancy
Impact type	Rollover, Front Crash, Driver Side Crash, Passenger Side Crash, Rear Crash, Side Crash, Any Impact, Severity	Where on the vehicle the crash was detected and determine what equipment is needed to triage the emergency (i/e jaws of life for a rollover)
Speed	Speed Value, Speed Unit, Delta V	Better to understand the potential impact and severity of a crash
Contact	Owner Name, Phone Number	ID the potential person in the vehicle based on owner

RapidSOS works alongside 911 to ensure that the data fields we are sending are relevant based on emergency type. The data sources above are specific to Connected Car, OEM, and Telematics partners.

Introducing our AI: RapidSOS HARMONY

HARMONY is RapidSOS' underlying AI that simplifies the processing of emergency data for busy public-safety teams by making complex emergency data actionable.

Synthesizing Data with HARMONY

The screenshot shows the RapidSOS interface with a map of Sunnyvale, CA. A central panel displays 'VEH. CRASH DETECTED' alerts from two sources. The left panel shows data from a Telematics Sensor, including a Heat Warning graph showing a spike to 227.8, and Airbags status (Driver Seat: Deployed, True; Front Crash: Detected). The right panel shows data from a Wearable Device, including a Caller Profile (Name: Ron Rodriguez, Gender: Male, Age: 63) and a Medical Profile (Previous Cardiac Arrest, Allergies: Peanuts, Current Status: Heart Rate 78, Blood Pressure 140/90 mmHg, Oxygen Saturation 85%).

A car crash has triggered two signals – one from a telematics sensor and one from a wearable device.

Each has a piece of the puzzle to understand what happened.

The screenshot shows the RapidSOS interface with a map of Sunnyvale, CA. A central panel displays 'VEH. CRASH DETECTED' alerts from two sources. To the right, a form is open for gathering additional information from the driver. The form includes fields for: 'What is the address of the emergency?' (103 Doane Ave, Sunnyvale, CA 94085), 'Tell me exactly what happened?' (Car crash), 'Are you with the patient now?' (Yes), 'Number of hurt/sick patients?' (1), 'How old is the patient?' (63), 'What is the patient's gender?' (Male), 'Are they awake?' (Yes), and 'Are they breathing?' (Yes).

HARMONY is able to decipher those data points in real-time while your team speaks to the driver, escalating both fire and EMS response.

RapidSOS difference: the end-to-end safety operating system

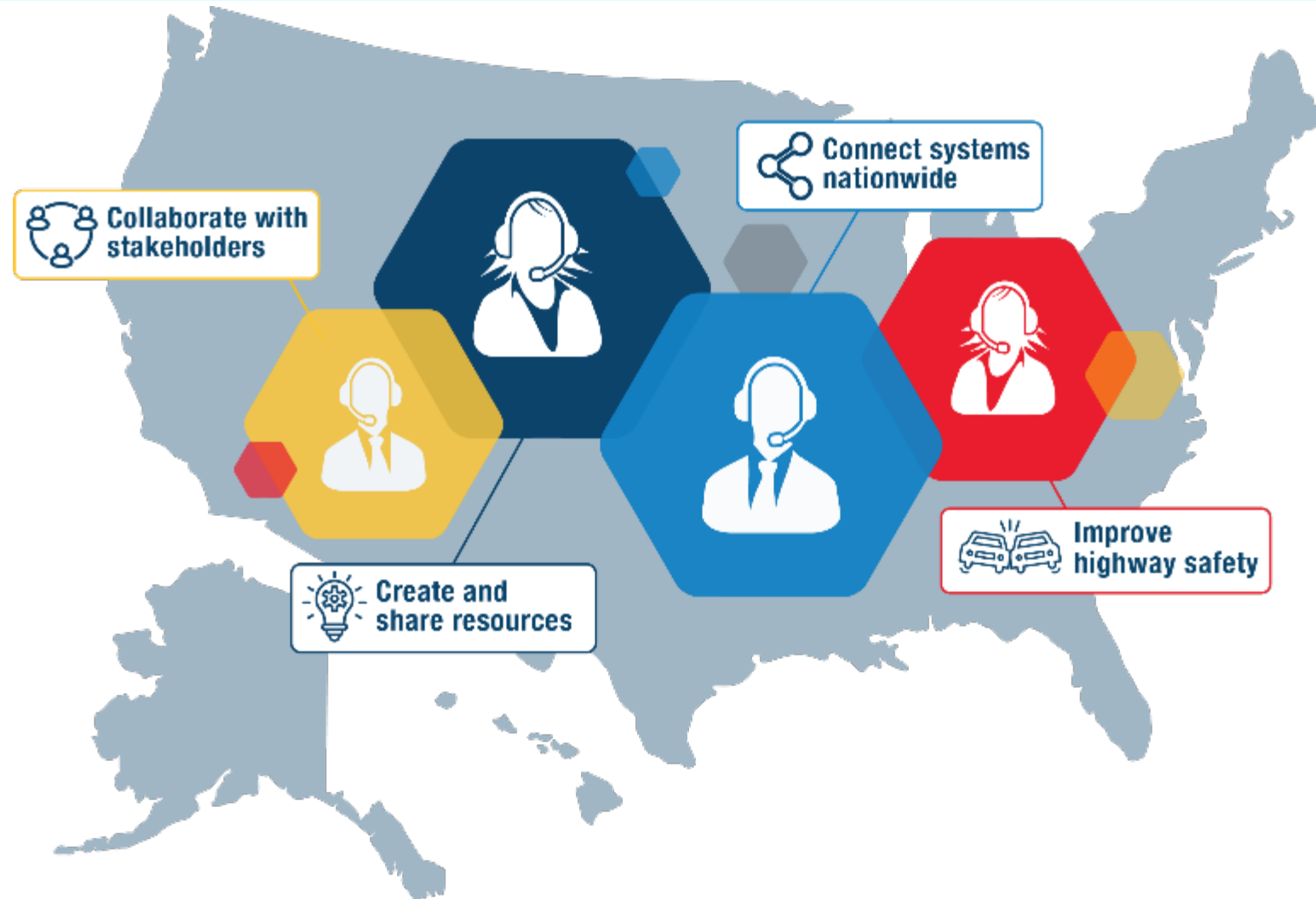


Thank you



ADVANCING 911 ACROSS THE NATION

911.gov



DRIVING I-95 – MAINE TO FLORIDA



The country's longest north-south interstate: 1924 miles



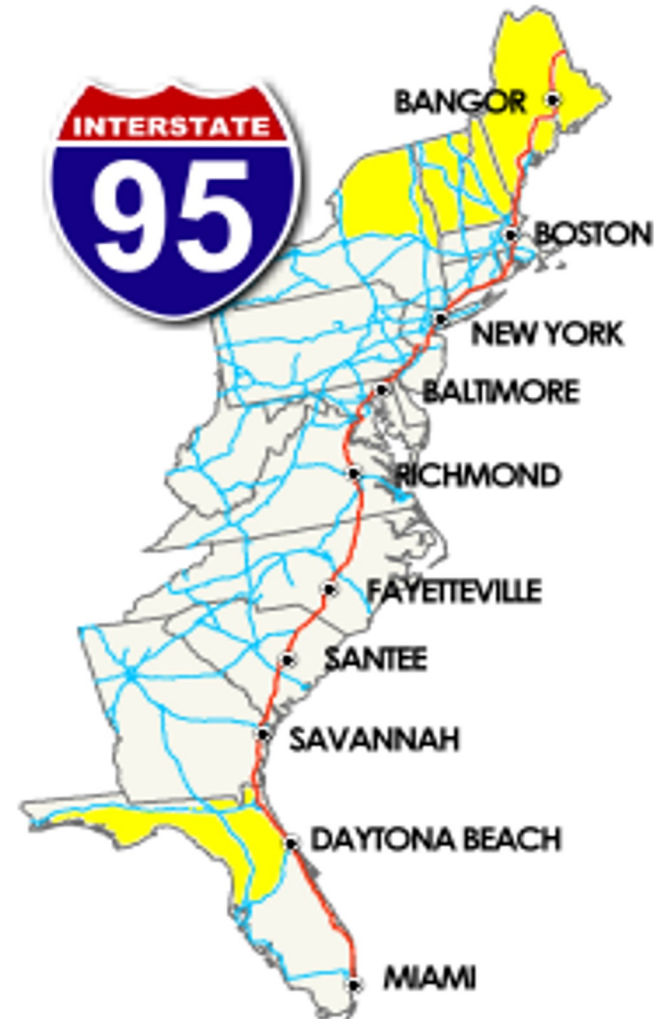
15 states & Washington, DC



199 (approx.) 911 jurisdictions



Fatalities in 2020: 379 (or 19.7 fatalities per 100 miles)



911's Role in All Five Elements

Safer People

Risky behavior reported to 911 (DUI, reckless/distracted driving)

Safer Roads

Unsafe conditions are reported to 911 (debris, lights, hazards)



NATIONAL ROADWAY SAFETY STRATEGY:

The Safe System Approach

911.gov

Safer Speeds

911 Center's are an integral part of the enforcement of speed and traffic laws by dispatching and recording law enforcement actions

Safer Vehicles

Advanced Automatic Crash Notifications (AACN) systems connect 911 center's and transmit critical data through telemetry

Post-Crash Care

Post-crash care begins with a call to 911. Telecommunicators must work with the caller to identify the location, nature and severity of the crash and dispatch help



Roundtable discussion

MODERATORS



RAVI PUVVALA
CENTER FOR
AUTOMOTIVE RESEARCH



TIM VANGOETHEM
EMERGENCY SAFETY SOLUTIONS
COVESA

PANELISTS



SCOTT CRAIG
SBC ADVISORS



JON BOEING
CONEKT.AI



STEVE COKER
SXM CONNECTED
VEHICLE



MARTIN LUNDH
WIRELESS CAR



DAVE SEHNERT
RAPIDSOS



BRIAN TEGTMEYER
NHTSA