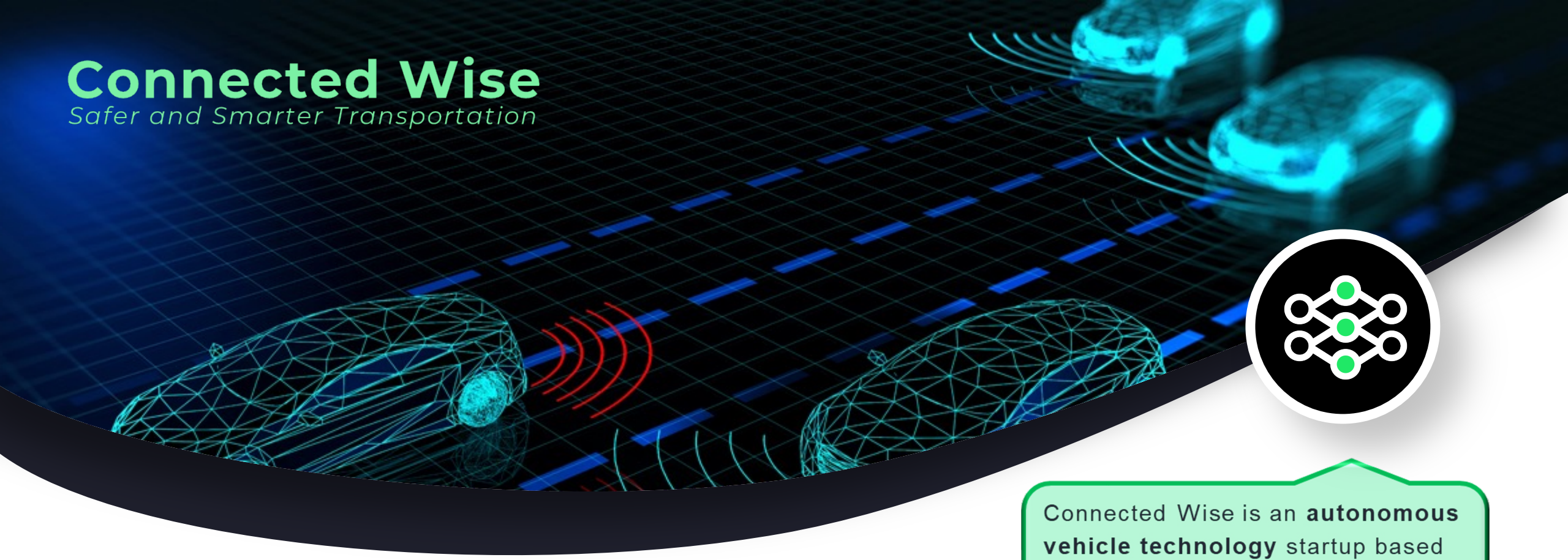
Connected Wise

Safer and Smarter Transportation



Connected Wise is an **autonomous vehicle technology** startup based in Orlando, FL. The team has raised so far $2.1M non-diluted funding.

Click for video

Presenter: Tolga Ercan, PhD (Co-founder & ITS Director)

Vision Based Communication for Connected Automated Vehicles

The Team

Executive Members

Enes Karaaslan, PhD (Co-Founder)

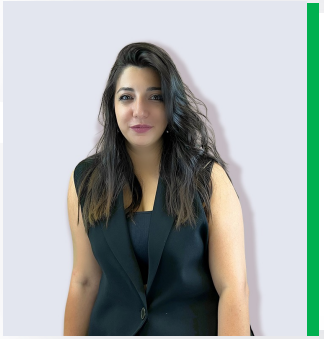
Expert in autonomous vehicle systems, vehicular communication and machine learning applications. Notable experience with technology transfer.

Tolga Ercan, PhD (Co-Founder)

Expert in intelligent transportation systems, transportation safety, and connected vehicle infrastructure. PhD research on energy optimization and sustainability.

Haluk Laman, PhD (Co-Founder)

Expert in transportation safety and connected vehicle technologies, and traffic operations. PhD research on traffic micro simulation & optimization.



Ece Mutlu, PhD (Marketing)

Industrial engineer with marketing experience. Also, expert in process engineering, artificial intelligence, statistical analysis, and system optimization.

Musa Ceylan, MSc (Engineering)

Autonomous vehicle engineer with expertise in automated driving, deep learning, data science, edge computing, computer vision and robotic systems.

Mahta Zakaria, PhD (Operations)

Expertise in smart transportation infrastructure, autonomous vehicles, analysis of big data, machine learning, and computer vision..

The Problem

Can Autonomous Vehicles Travel Safely on Rural Highways?

No Power or Internet Access

Existing technology requires power and internet access for wireless communication.

Maintenance is Very Costly

Maintaining the connected vehicle infrastructure is difficult and costly.

Dispersed Settlements

Requires substantial investment to provide the same standard of coverage.

> “The traffic fatality rate is twice as high in rural areas, constituting almost 98% of United States.”

The Solution

Vision Based Communication via Smart Traffic Signs

Each I2V message is assigned to a unique visual identifier placed on traffic signs. The message is still relayed even when the sign is not fully visible, benefiting from the power of image recognition.

Non-provisional patent was filed in 2020 (#US 16/882,881).

Secure Communication

Encrpted identifiers for I2V messages with a secure visual hashing algorithm

Works Robustly & Reliably

Unlike QR codes, it works reliably under extreme environment conditions

Low Cost of Infrastructure

The operational costs are 95% cheaper compared to wireless communication

The Technology

MAP Message Decoder

A Machine Vision Technology
for autonomous vehicle navigation

With the help of an visual identifier on a road sign, autonomous vehicles will calibrate their **localization and mapping at high precision** in reference to an accurate road geometry data.

The Product

More than ADAS

VisionConnect & *VisionConnect+*

Low-cost devices equiped with the most powerful artificial intelligence system, providing advanced driver safety and vehicular communication.

Learn More

$490

Advanced Safety Features

Forward Collision Warning
Lane Departure Warning
Red Light Warning
Vulnerable Road Users
Intersection Collision Warning
Traffic Sign Recognition

Infrastructure-to-Vehicle

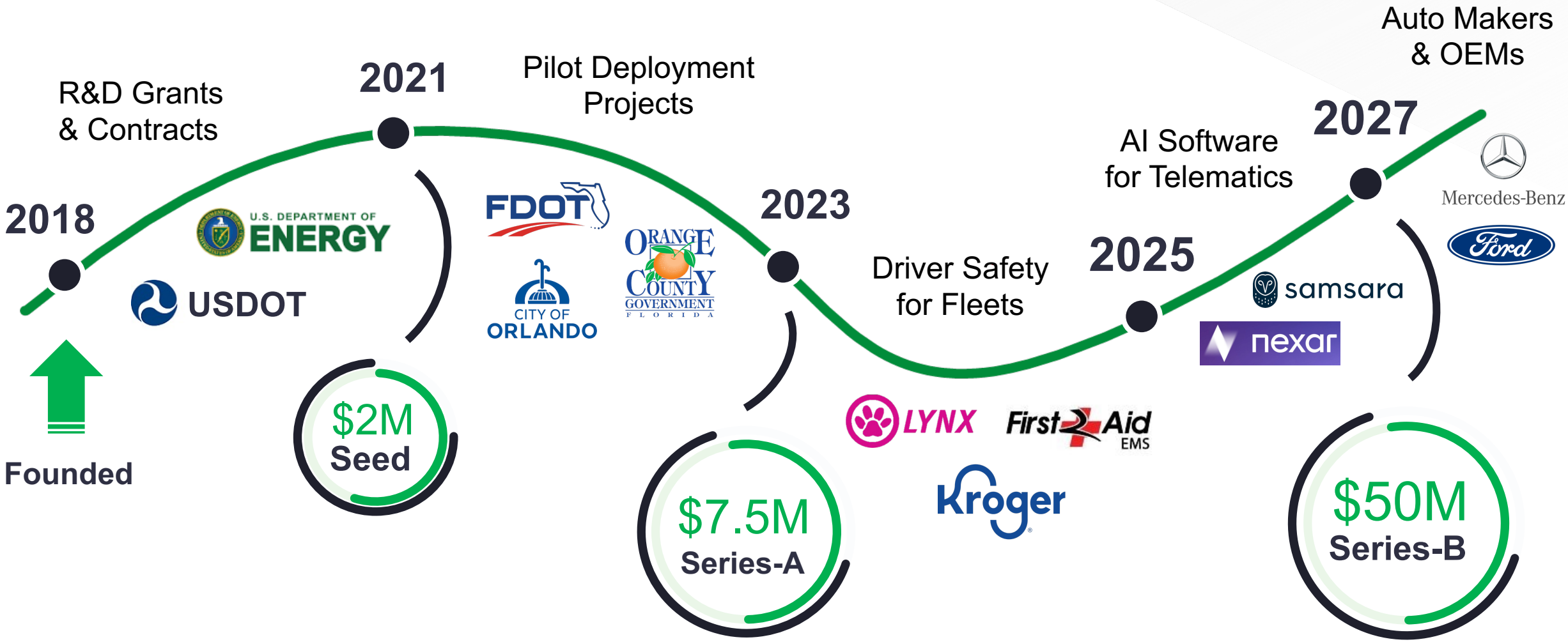
I2V safety messages for work zones, unsignalized intersections, lane merges, road closures, and sharp curves.

Graphical Interface

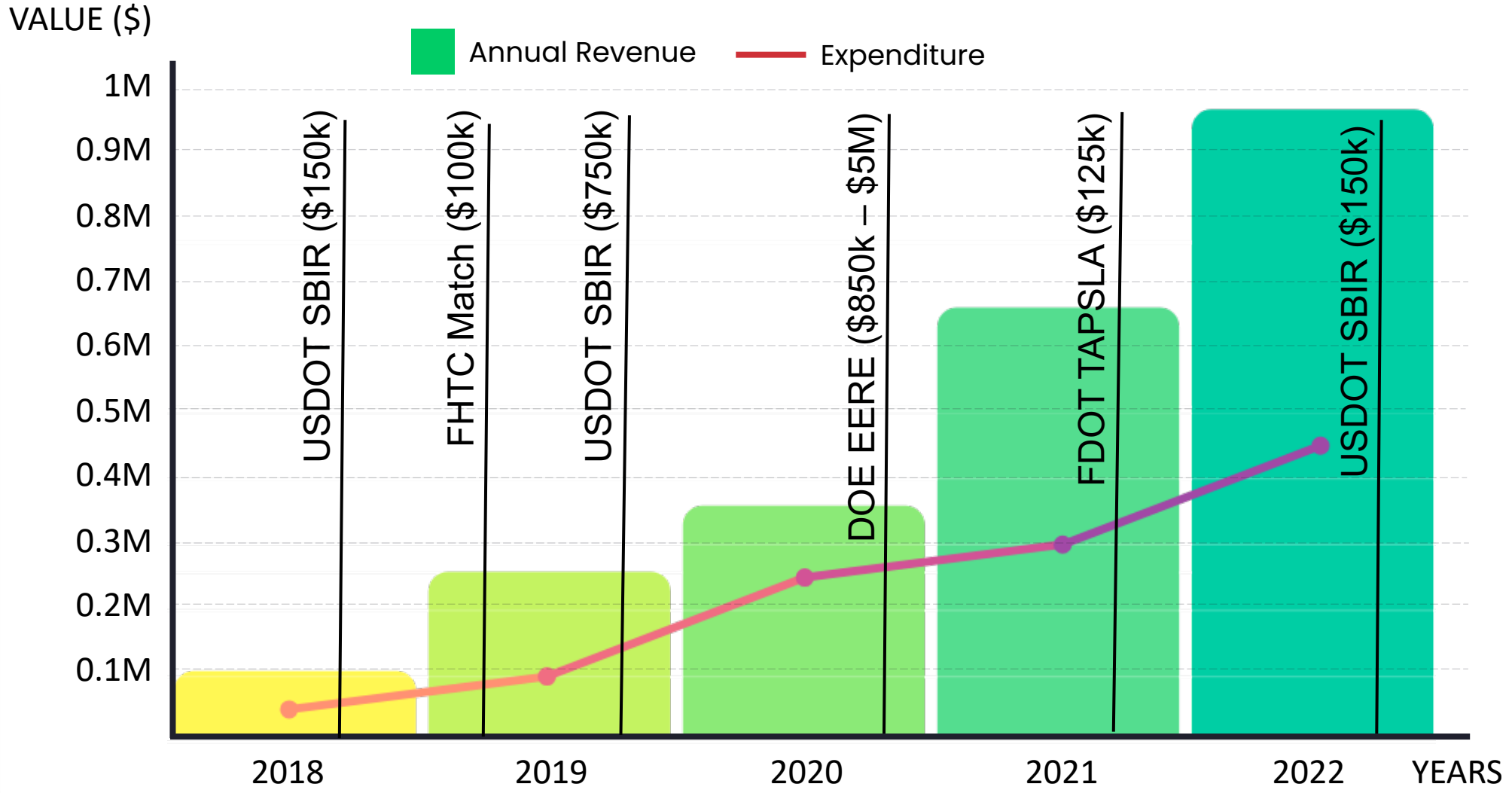
3D animated objects and safety warnings that won't distract the driver.

Connected Wise

Market Strategy & Fundraising



Revenue Traction & Spending



Investment

Exit Strategy

Acquision by an automaker is planned by year 2027.

Early exit may be available in 2025 through merger with a telematics company

Use of Funds

Bulk manufacturing of 1,000 devices

A new facility with a small vehicle mechanic shop

Overseas office to lower the engineering costs.

Seeking Pre-series A Investment

$2.5M SAFE

$15M Post Money + 5% Discount

$1.5M of the total investment is matching contribution to $750k government contract award.

40% + 60%

Government

Third Party

Thank You !

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Watch Our Demo