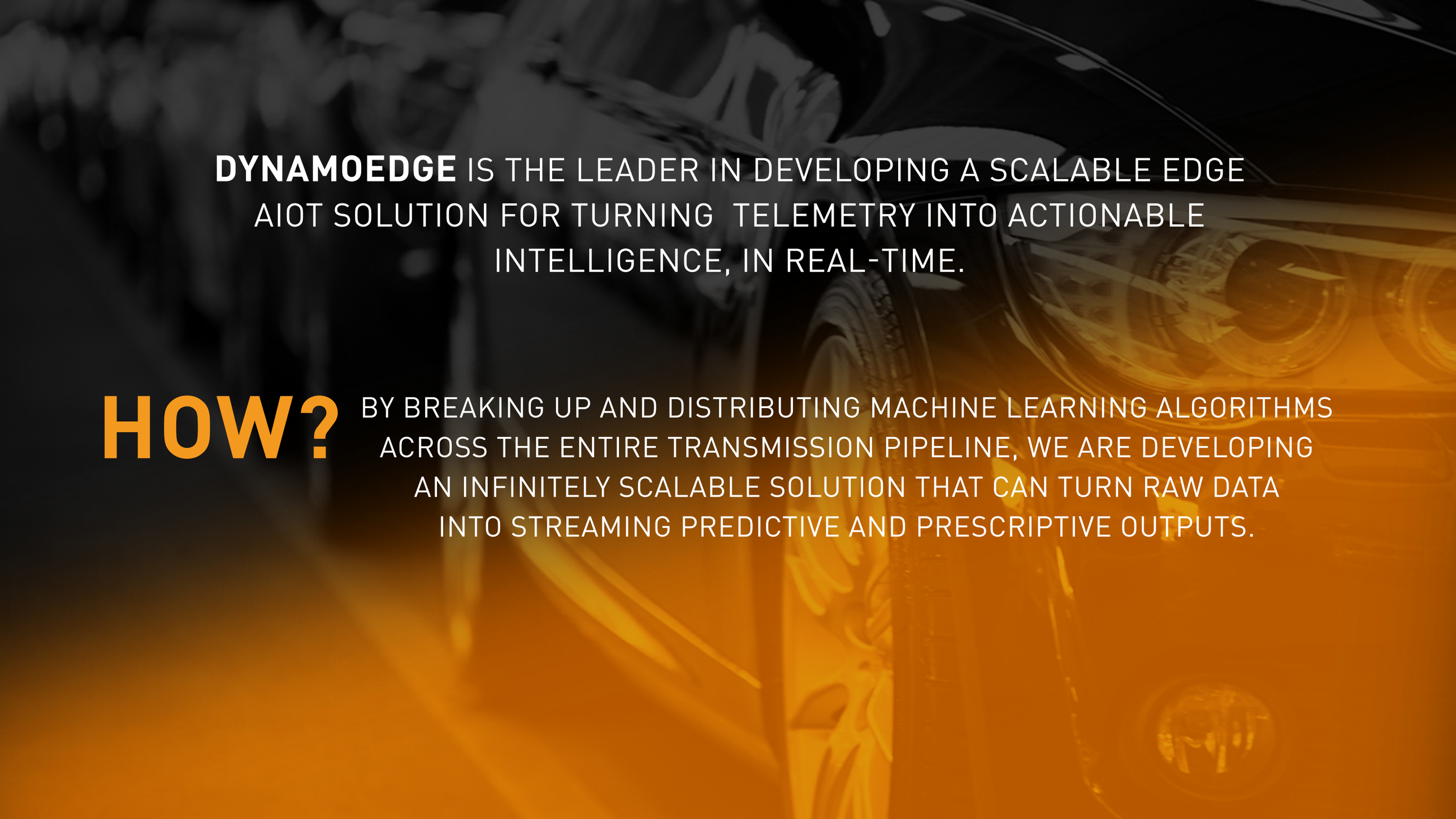

DYNAMO™
EDGE
TESSOLVE
A Hero Electronix Venture



DYNAMOEDGE IS THE LEADER IN DEVELOPING A SCALABLE EDGE AIOT SOLUTION FOR TURNING TELEMETRY INTO ACTIONABLE INTELLIGENCE, IN REAL-TIME.

HOW?

BY BREAKING UP AND DISTRIBUTING MACHINE LEARNING ALGORITHMS ACROSS THE ENTIRE TRANSMISSION PIPELINE, WE ARE DEVELOPING AN INFINITELY SCALABLE SOLUTION THAT CAN TURN RAW DATA INTO STREAMING PREDICTIVE AND PRESCRIPTIVE OUTPUTS.

DynamoEdge

Relevant results are sent over the air, saving oems up to 90% of data storage cost.

Fleet Mission Control
Web Portal
Map, Alerts and Notifications

Predictions are shared with drivers and fleet managers empowering enterprises with visibility into their Fleet Total Cost of Ownership savings, in real-time

"Your right front tire will fail within the next 50 miles,the next tire shop 3.2 miles away has parts and they are waiting for you"

ON DASHBOARD AND WEB AUGMENTED

REAL-TIME
PRESCRIPTIVE
ALERTS

OTA Updates

On-Premise AI up to 300 sensors:
Pressure,Temperature
Balance, Vibrations,etc.

SENSORS

DynamoEdge
Tessolve TERA 5G AI

DynamoEdge Data Enrichment

It is generally believed that the health of tires depends on two factors:

The tread and the date of manufacture or age of the tire.

However, there are factors that cannot be measured with the naked eye and directly influence the useful life of a tire.

Now, thanks to DynamoEdge and Tera,
you can predict how close your tire is to failure and take action to prevent any issues.

- It gets ahead of any failure by measuring what kind of high g events each individual tire experiences (potholes, road hazards, etc.).

- Analyzes the load curve that each tire has accumulated in different parts, both pressure and temperature, speed, lateral forces, acceleration, braking, etc.

By monitoring all of these parameters with an on-board computer like Tera, DynamoEdge can calculate a health metric for each tire independently through an advanced mathematical model.

But this is not all, since thanks to our Edge AI we are capable to achieve automatic learning that can feed us with increasingly valid information depending on the type of driving, as well as protect us from potential inconveniences.

This allows vehicle operators and fleet managers to save fuel costs, reduce vehicle CO_2 emissions and improve safety by replacing tires when necessary, not just based on mileage and visual inspection.

WHY US?

TODAY

AT CLOUD

AT EDGE

AT PREMISE



DATA ENRICHMENT



DYNAMO EDGE



BEFORE

Fragmented AI Sources
No integration of intelligence
Latency Stack Up
Insufficient throughput
Poor Data Segmentation
Noisy Inaccurate Data

WITH DYNAMOEDGE

Sigle Data Refinement Platform
Fully Integrated
Optimized end-to-end-latency
Efficient extraction of Intelligence
Better Data Segmentation
Best data Accuracy and Cleanliness

GET ACTIONABLE INSIGHTS TO DRIVE IMPACTFUL ROI

HEALTHY TIRES

OVER 3% FUEL SAVINGS

PROBLEM

- Fuel can account for as much as 60% of the fleet's operating budget.

SOLUTIONS

- With Predictive Vehicle maintenance,your fleet never stops because of unexpected and expensive breakdowns.
- Avoid "mileage thieves" such as loss of tire pressure, which generates a loss of 3% in km traveled.

PREDICTIVE MAINTAINANCE

10% LESS COST AND 20% MORE PRODUCTIVITY

PROBLEM

- Slow, untargeted repairs

SOLUTIONS

- Anticipate an engine problem and report it even before the driver realizes something is wrong.
- It recommends the most convenient repair in the event of a breakdown and optimizes the total cost of vehicle maintenance. by anticipating, you save on operating costs and your fleet does not remain inactive.

INSURANCE NOTIFICATION

15% SAVINGS

PROBLEM

- It is a process that, until now, has been almost 100% manual and especially complicated in cases of critical accidents.

SOLUTIONS

- Modern vehicles have gps, g-sensors and external and internal cameras. It synchronizes all the data streams that the vehicle obtains and detects impacts or other critical incidents.
- In the event of an accident, it automatically activates an alarm and a rescue protocol, notifying hospitals, law enforcement and insurance with precise data.

5G OBD AI Dongle

Technical Specification

DynamoEdge AI
CPU : NXP S32G2 Processor
Memory: LPDDR4X – 4GB, eMMC – 32GB
CAN Interfaces with OBD connector
Cellular Connectivity: 5G
US Carrier certified Module.
Supported Frequency Band (NSA):
n1/n2/n3/n5/n7/n8/n12/n20/n25/n28
/n38/n40/n41/n48/n66/n71/n77/n78/n79
Sensors: 9-Axis IMU
GPS/GLONASS
Linux OS
Voltage Input: 12V to 36V (Vehicle Battery)
Temperature - 40DegC to +105DegC
Forma Factor: 5 x 3 inch



THANK YOU

DYNAMO EDGE

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