ENERVIBE
Energy Harvesting Solutions

Movement
Energy
Data

Wireless sensors powered
by energy harvesters

Our vision:
To empower the connected world of billions of moving IOT devices & wireless sensors with self-powered perpetual zero emission energy source

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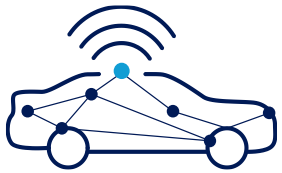
The problem we are solving

The need – Connectivity of IoT data from moving devices

The challenge – **impossible/expensive** wiring installation, and/or **limited** battery's power for moving/vibrating/rotating IoT's.

The solution – **Making the impossible possible** via self powered sensor driven by kinetic energy harvester that provides unlimited green power for lifetime

Huge Market Opportunity - 800,000,000 Units



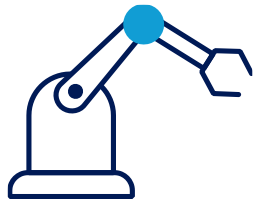
Automotive | 320 M Units

- Digital tires
- Air Suspensions
- Chassis Sensors
- EV's batteries temp/BMS
- EV's electrical motors health

Defense | 100 M Units

- Remote locations
- Monitoring moving objects
- Connected battlefield
- Smart security fences

Energy & Data Harvester



Industry 4.0 | 130 M Units

- Wireless sensors
- Rotating machines
- Remote locations
- Frequency monitoring

Wearables | 250 M Units

- Smart Watch
- Smart shoes
- VR/AR Glasses
- Earbuds
- Mountain bikes

Technology

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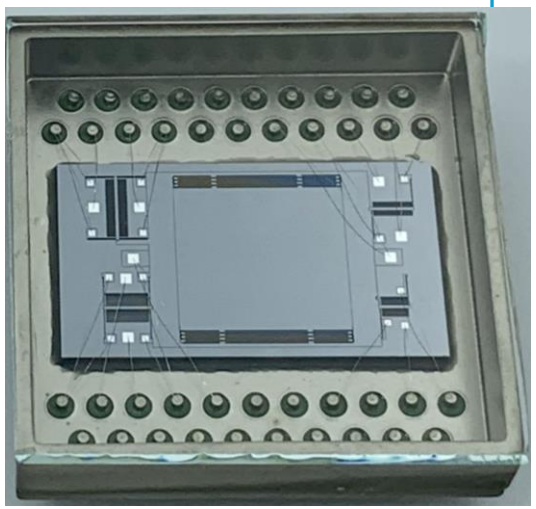
Core Technology - Unmatched Kinetic Energy Harvesters

Innovative kinetic
energy harvesters,
2 novel configurations,
6 patents in process,
6 Granted



Electromagnetic Harvesters (EM)

- High power density
- High durability
- Cost effective

Electrostatic (MEMS) Harvesters

- Continuously tuned to harvested device
- Optimal harvesting at each frequency
- Highly resistant silicon chip

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MEMS - **M**icro **E**lectro **M**echanical **S**ystem

Enertire™
A Smart Tire Sensing Platform for commercial fleets the first commercial application

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The race for the ultimate Smart Tire for commercial fleets

Level 1

Tire ID, pressure and temperature

Tire properties, fit to task , safety

Level 2

Tire health and condition

Essential data for predictive maintenance and car safety

Level 3

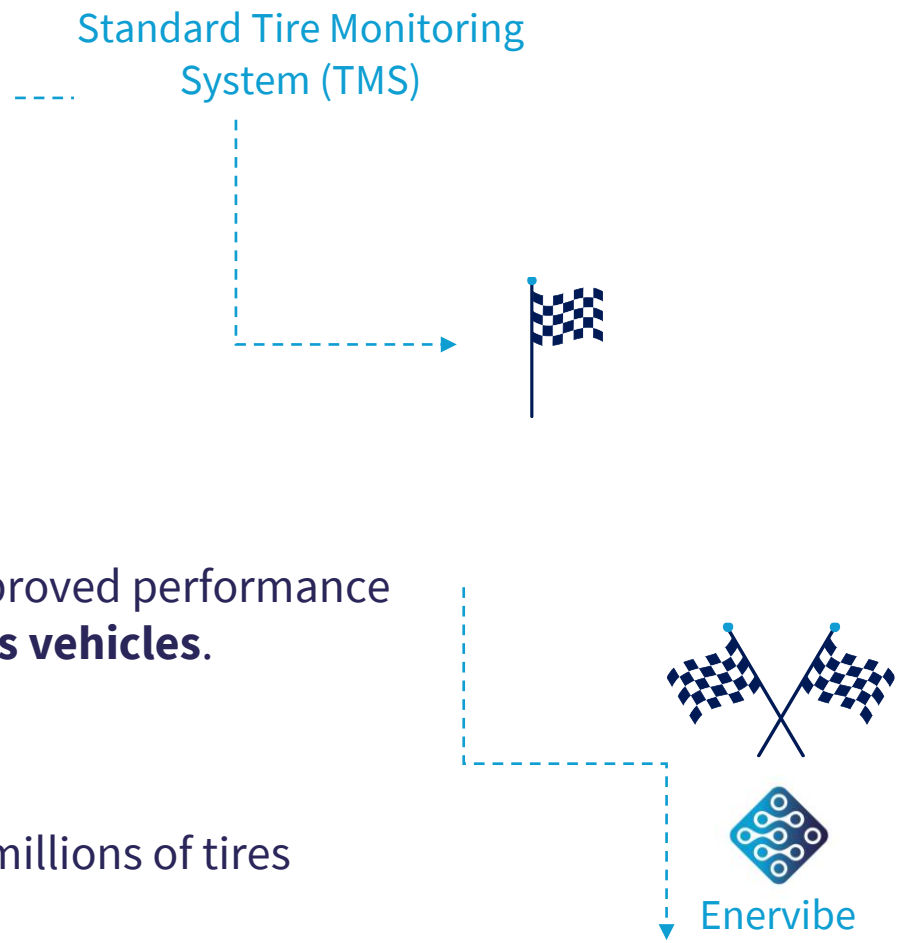
Tire weight & road Real-Time status

Real time data transmitted to the ECU and ADAS for improved performance and safety **for today's vehicles/fleets and Autonomous vehicles**.

Level 4

Tire data analytics

Insights and predictions based on data analytics from millions of tires



Enertire™ - Powerful Energy Harvester & Tire Sensing platform for commercial fleets

New data type

High sampling & transmission data rate

Pressure

Temp.

Wear

Weight

Road condition

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Solution Structure

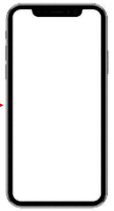
Fleet Management

Telematic cloud

Telematic unit

Enervibe Central unit

Fleet Mobiles



Enertire

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Competitive advantage

Enervibe is the only one using energy harvester as energy source which is translated into 3 main advantages:

- ✓ Ability to operate wide range of sensors – **complete solution for all needed data**
- ✓ High sampling & transmission data rate
- ✓ Ease of installation –
  - Auto detection for sensor position in vehicle (via MESH)
  - Data transmission from tires directly to cabine without repeaters

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Traction and Engagement

Company	POC schedule	Module in test	Paid	Status /comments
Global Tire MF #1	4 POC's/2021-2	EH		Completed successfully. Will approach us for their next generation. Tech session is planned for Oct.
Global Tire MF #2	Q4 22	ET		POC #2 on going toward Joint development Agr.
Global Tire MF #3 US EU	Q1/2023 Q3/2023	EH ET		Parts under evaluation in the US. Parts for EU will be evaluated by Oct/Nov.
Global Sensor MF #1	Q1-Q3/2023	EH+ET		POC #1 completed. XXX submitted long term plan up to mass production H2 2024.
Global Tire MF #4	7/2023	ET		Parts under evaluation.
Global Tire MF #5	Q3/2023	ET		POC #1 under evaluation, POC #2/on road planned for Q4, first mass installation planned for Q1 2024
Global Tire MF #6	7/2023	EH		Parts shipped by July and will be evaluated by Oct.
Global Sensor MF #2	7/2023	EH		Parts shipped by July and under evaluation
Automotive OEM #1	Oct 22, March 23	ET		2nd Demo for Autonomous vehicle weight was done by March and next step is under evaluation
Local fleet evaluation	March-Sep 2023	ET		2nd POC completed, will move to larger pilot by Q4 2023.

ET – Enertire/full module. **EH** – Energy Harvester only

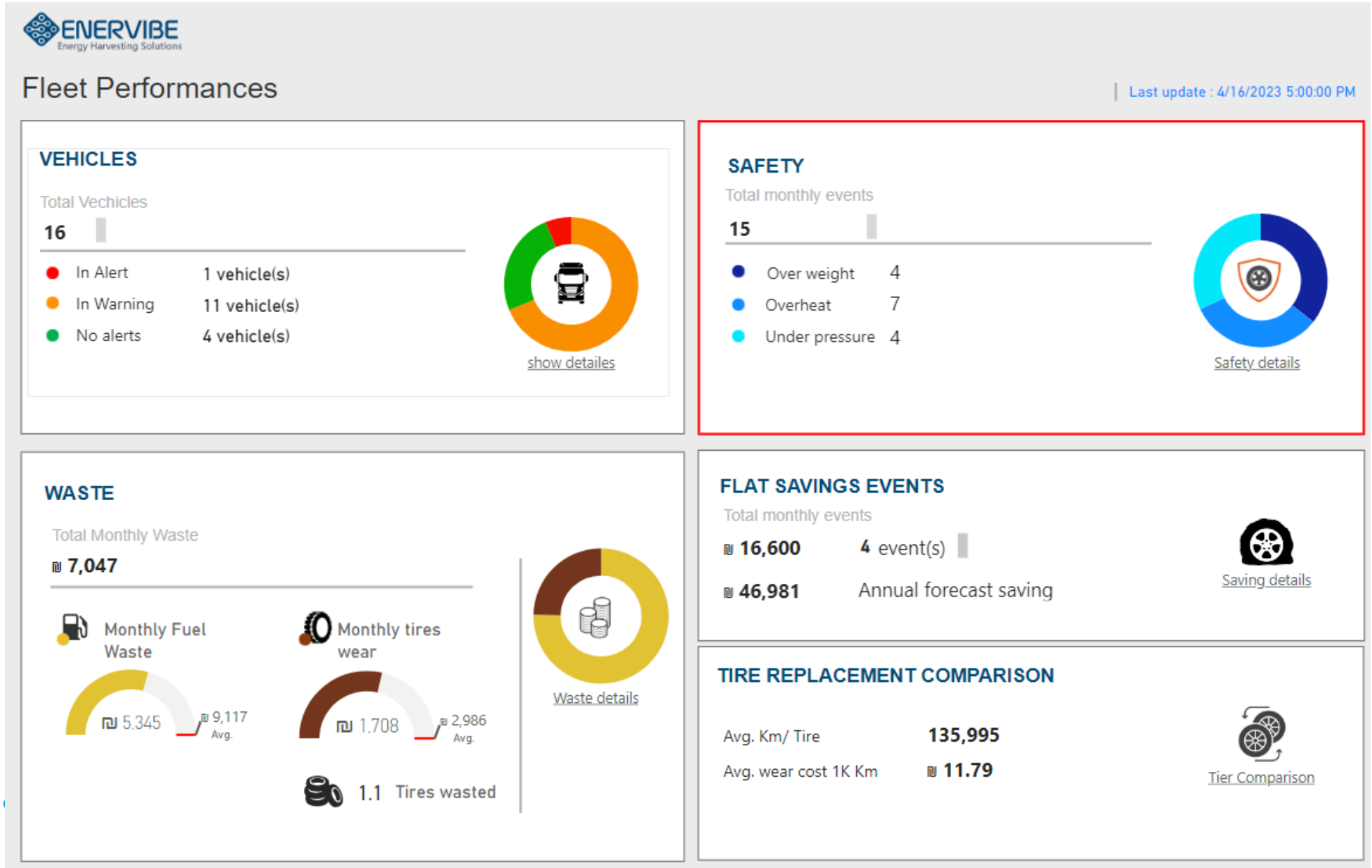
Traction and Engagement cont'

Company	POC schedule	Module in test	Paid	Status /comments
Telematics Service #1	Q3-4/2023	ET		1st pilot by Oct. Incl. communication between Enervibe ET to XXX system,
Telematics Service #2	Q3-4/2023	ET		1st pilot on-going Incl. communication between Enervibe ET to YYY system,
Automotive OEM #2	Not Defined	TBD		Smart suspension - System to measure movements & pressure for passenger cars
Electronics OEM	Q4 2022	EH		Smart shoes - In Process
White goods OEM	Q4 2023	ET*		Application for white goods

ET – Enertire/full module. EH – Energy Harvester only

Dash board and added value to fleet management

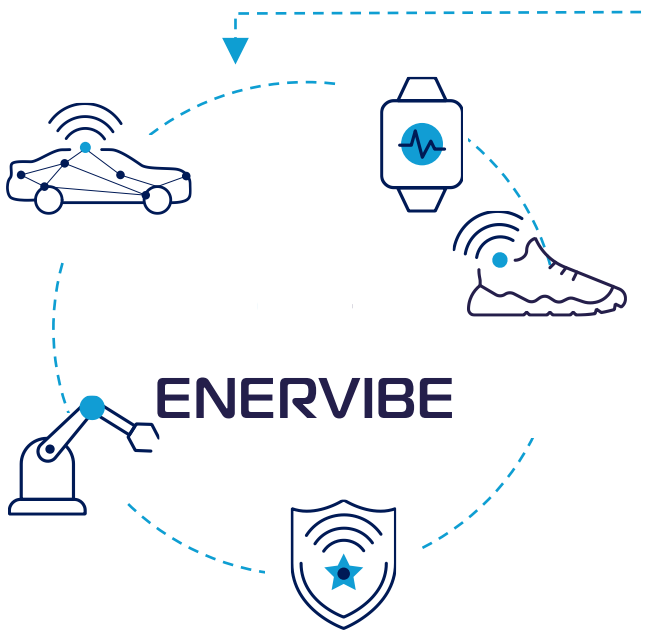
To reduce fuel consumption by 5%, extend tire life time by 20%, reduce 70% of vehicle tire road fault



Use Cases & Go to market

Go To Market Strategy

Partner with top players in each target market to design, produce and sell a joint-product based on our unique energy & data harvesting technology and partner's market strength



Next gen product definition/design

Design a product based on partner's needs/ market position

Partner or 3rd party manufacturing of the product

Partner sells the product as OEM or Aftermarket

Use cases

2023-2024 focus is the tire & automotive vertical

Tires, Fleet performance, Vehicle sensors

Industrial IoT for predictive maintenance

Wearables - Fitness trackers, smart watches & shoes

Defense & homeland Security devices

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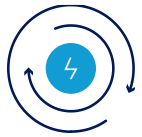
Summary

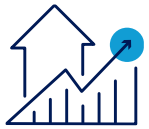
Innovative energy source & data provider to wide business categories

Extensive, robust & strategic IP portfolio



World's Most advanced & powerful in-tire Energy Harvester

Experienced leadership team with extensive domain expertise



Huge addressable markets, high CAGR, with potential rapid ROI

Substantial strategic traction, validated product market-fit

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