

Mobility

Transport

SAFETY

SAFETY

YOUNG
BEGINNER
RIDERS

AGENTU
BEGINNE

SAFETY

Motorcycle safety Initiative

Use advanced technology to prevent motorcycle accidents

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Problem statement

- Based on ETSC and IRTAD data (2011–2022), motorcycle fatalities account for an average of 16.78% of all road fatalities. In total, 47,067 motorcyclists lost their lives during this period, averaging 3,922 fatalities per year.
- According to European Road Safety Observatory report, 94% of all fatalities in fatal crashes involving motorcyclists or moped riders were motorcyclists or moped riders themselves.
- 37% and 34% of motorcyclists and moped riders died in a unilateral crash

High Fatality Rates



Motorcyclists account for 16% of road fatalities in the EU.

Road and Weather Conditions



Over 50% of accidents involving motorcycles occur on rural roads and 92% on dry roads, showing a high occurrence in favorable weather conditions

Our vision - project goal - Impact

Develop AI driven situation awareness system to

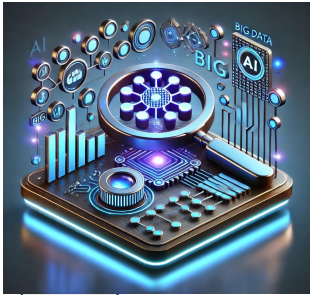
- Prevent motorcycle accidents
- Reduce number of fatalities

Use Technology to safe motorcycle riders lifes by:

- Big data analytics
- Develop open architecture multi platform solution
- Develop critical situation AI predictive model
- Develop situation awareness system



How to do it?



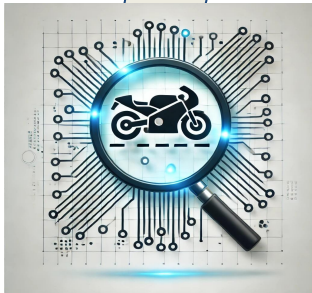
Identify patterns



Use digital twin for risk analysis



GPS locations and metadata



Collect accident data



Next generation situation awareness



Real time data enrichment

A stylized blue and white motorcycle helmet icon with circuit-like patterns, positioned in the top left corner of the slide.

What we have?

- Clear goal and vision
- Extensive experience in commercial IT system development
- A dedicated team of AI / machine learning experts and enthusiasts
- Experienced project managers
- Passionate and highly skilled motorcycle professionals
- Great fit with upcoming Cluster 5 priorities (Predicting and avoiding road crashes)

A stylized, futuristic helmet logo in shades of blue and white, surrounded by circuit-like patterns. Below it are three smaller versions of the same logo.

Why we are here?

Establish a strong consortium of partners to collaboratively

- define a detailed project specification and work packages,
- develop a compelling funding proposal under *Horizon Europe Cluster 5 (Predicting and avoiding road crashes based on Artificial Intelligence (AI) and big data)*,
- ensuring alignment with EU priorities and maximizing the chances of receiving funding

We are searching for partners to join our team and bring new ideas and capabilities.

Our goal is to find partners with following capabilities:

- big data analytics,
- methodology leadership,
- interface standardization,
- HW development
- human centric graphic interface development
- EU Project administration



Interested?

Contact us to make a real impact

Jiri Babicky



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European Motorcycle Safety & Training Organization www.emsto.eu

Czech Republic 