TRIPS

Transport Intelligence for Safe Mobility

FIRST Transport Intelligence system that uses satellite data and 5G technologies to improve road accident prevention, safety and road maintenance.

WHAT TRIPS DOES

Identification of urban areas at highest risk of accidents

API to plan safe routes

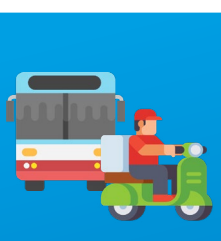
Detects areas to be maintained in relation to road markings

It helps evaluate road accidents by analyzing images captured by drones equipped with 5G connectivity

USERS / BENEFITS

MUNICIPALITIES, POLICE FORCES AND RED CROSS

- Optimize the deployment of vehicles and personnel to deal with emergencies due to accidents
- Provide citizens with indications of the safest route to reduce the risk of accidents
- Reduce the social costs of accidents in a growing context of green mobility (e.g. pedestrians, cyclists, electric scooters, and others)
- Resolve disputes relating to accidents and damages to vehicles



PUBLIC AND PRIVATE TRANSPORTATION BUSINESSES

- Improve service efficiency for greater customer satisfaction and increased revenue
- Improve the safety of home food delivery personnel (e.g. Deliveroo, Just Eat, Uber Eats etc.) by safeguarding physical integrity and life

INSURANCE COMPANIES

- Take out more advantageous policies for those customers that allow the data acquired by the drone to be used to determine with maximum accuracy the responsibility for an accident
- Reduce costs associated with compensation for accident damages
- Provide a new and high-value service for customers

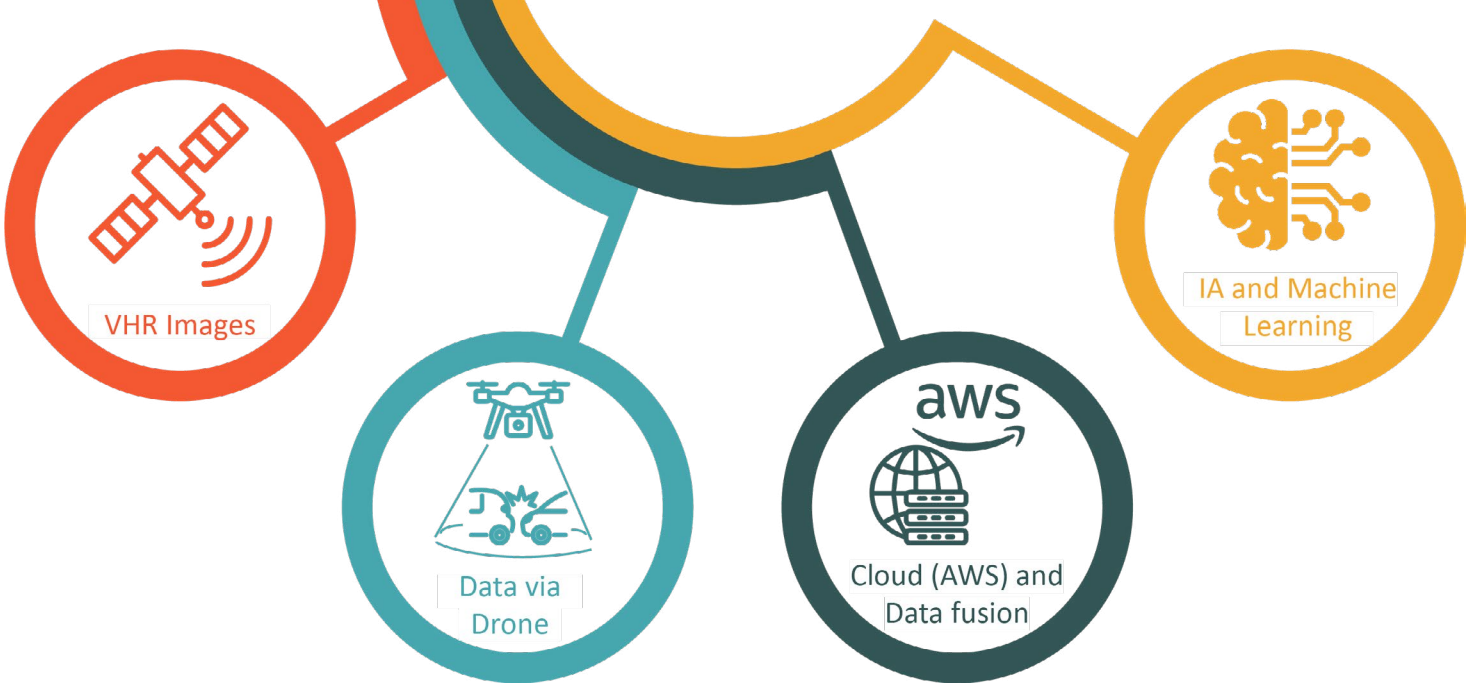
TECHNOLOGICAL INNOVATION

Use of very high resolution (VHR) satellite imagery for road marking quality detection

Acquisition of images of serious accidents via drone, with 5G/satellite geolocation precision, to carry out damage assessment and reconstruct the dynamics of complex accidents

Approach based on Cloud (AWS) and Data fusion, with the integration of traffic, demographic, meteorological data, satellite images and images acquired via drone

Use of the most advanced Artificial Intelligence and Machine Learning techniques for the analysis of the acquired data



PROJET TEAM

The TRIPS project was selected among the winners of the "Intelligent Transport" tender, promoted by the European Space Agency to support the development of new space services for the intelligent transport sector

COORDINATOR

REPLY SANTER

REPLY DATA

Italian company operating in various sectors such as big data, cloud computing, digital media, and internet of things.

https://www.reply.com/it

PARTNER

NOVARECKON knowledge brokers

Innovative SME, former spin-off of the University of Eastern Piedmont. Novareckon manages relationships with users, collecting their needs, evaluating the socio-economic impact and analyzing their satisfaction.

https://www.novareckon.it

PILOT USERS

CITTA' DI TORINO

Corpo di Polizia Locale

They make the following contributions to the TRIPS project: finalization of user requirements, access to road accident data over 5 years, drones, and pilot support through the Drone Unit.

http://www.comune.torino.it
http://www.comune.torino.it/vigiliurbani