

FORMULATION OF SPECIFIC CHALLENGES

CHALLENGE

Improving the safety of road operators

CHALLENGE TYPE

Process

Technology

Negocio

ABSTRACT

- We are looking for an intelligent system that allows the automated design of the optimal and tailor-made operation for each situation according to the activity to be carried out by road maintenance operators, taking into account the characteristics of the road in real time. [Use measures appropriate to each situation beyond the standard ones established by the manuals].
- In addition, implement a record to know the actions performed on the road by the operators for subsequent risk analysis (accident concentration section, etc.).

HOW WE COULD

How we could improve the safety of our road maintenance operators in roadway operations such as bridge joint repair, pruning, barrier placement, line painting, drainage and ditching, signaling operations and object removal through enabling technologies.

We want to identify the casuistry of the stretch of road where we are going to work so that operators are aware of possible risks they may encounter upon arrival.

RESTRICCIONES ó REQUISITOS ESPECÍFICOS

- Easy to install and transport systems: on-board, wearable, removable, etc.
- Analyze road characteristics, weather conditions, traffic conditions (e.g.: IMD (traffic index), speed, visibility, changes in gradient, curves, accident concentration sections, glare) and decide in real time (AI, Machine Learning).
- System able to extract / read information from different databases (DGT, Aemet, etc).

PARTNER PROFILE

- National and international profile
- Open to solutions regardless of maturity stage.
- Company with experience in road maintenance solutions is a plus.