

# Project Calendar

# Modules

- ◇ Communications Module
  - ◇ V2X Communications
  - ◇ Wifi / LTE Communications
- ◇ Web App Module
  - ◇ Frontend
  - ◇ Backend

# Task List

- ◆ Communications Module (Tomás & André)
  - ◆ Hardware Selection (Tomás & André): Choose viable hardware according to the requirements engineering previously done.
  - ◆ Investigate Communication Protocol (Tomás & André): Learn how the communication works and send an 'Hello World' packet.
  - ◆ Investigate and Craft Emergency Packet (Tomás & André): Craft and send a custom made emergency packet.
  - ◆ Choose gateway car & establish communication between them (Tomás & André): After the emergency packet is broadcasted, choose a gateway car and establish a data stream.
  - ◆ Send information (Tomás & André): Get accident information from vehicles to the gateway car then to the roadside unit, finally offload the data to the web app to be processed.
  - ◆ Extra:
    - ◆ Livestream (Tomás & André): If possible, livestream the aftermath to the web app in collaboration with nearby cars

# Task List

- ◆ Web App Module (Daniela & Filipe & Gustavo & Ricardo)
  - ◆ Framework Investigation (All): Investigate and select a framework according to the requirements engineering previously done.
  - ◆ UI Design (Ricardo, Daniela): Design and implement UI functionalities.
  - ◆ Database (Ricardo): Design and implement a database on the chosen framework.
  - ◆ Data Processing (Filipe, Daniela, Gustavo): Process all the data received from the roadside unit.
  - ◆ Extra:
    - ◆ Processing Livestream (Filipe, Gustavo): In case of implementation, process the livestream.



# Project Schedule

◆ Gantt Diagram of the project

# Milestones

## ◆ M1:

- ◆ Be able to explain the project
- ◆ Present the project calendar
- ◆ Present a draft of the systems' architecture

## ◆ M2:

- ◆ Have a fully validated architecture
- ◆ Have a basic version of the web app and communication system

# Milestones

- ◇ M3:
  - ◇ Be able to communicate using V2X and Wifi
  - ◇ Be able to send and show some information in the web app
  - ◇ Define MVP
- ◇ M4:
  - ◇ Full communication between cars and roadside unit
  - ◇ See all the mandatory information in the web app

# Deliverables

- ◆ M1:
  - ◆ Website [ProjectARC](#)
  - ◆ Project Schedule
  - ◆ Project Presentation
- ◆ M2:
  - ◆ Validated architecture
  - ◆ Documentation
- ◆ M3:
  - ◆ Web App prototype
  - ◆ Communications prototype
  - ◆ Documentation about both modules
- ◆ M4:
  - ◆ Fully functioning system