

Mobile App and Traffic Control Center for C-ITS Services

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Context

- A lot of road accidents.
- Casualties.

Smart Systems for Transports and Vehicle Communication Networks

Ensuring road safety.

PASMO and 5G-MOBIX

Equipments stationed at Costa Nova, Barra and throughout A25.

- RSUs – Road Side Units
- Cameras
- Traffic classification Radars
- Weather Stations

Vehicle Communication Technology:

- PASMO uses ETSI ITS-G5 and LTE.
- 5G-MOBIX uses 5G technology.





The problem

Need to fit equipments in a control and supervision system, so that decisions can be made on the safety and flow of road traffic, based on collected data.

Drivers and other users need to report and visualize alerts in a decentralized and instantaneous way.



Monitoring platform and mobile app to allow interaction between drivers, Traffic Control Center operators and the C-ITS system devices.



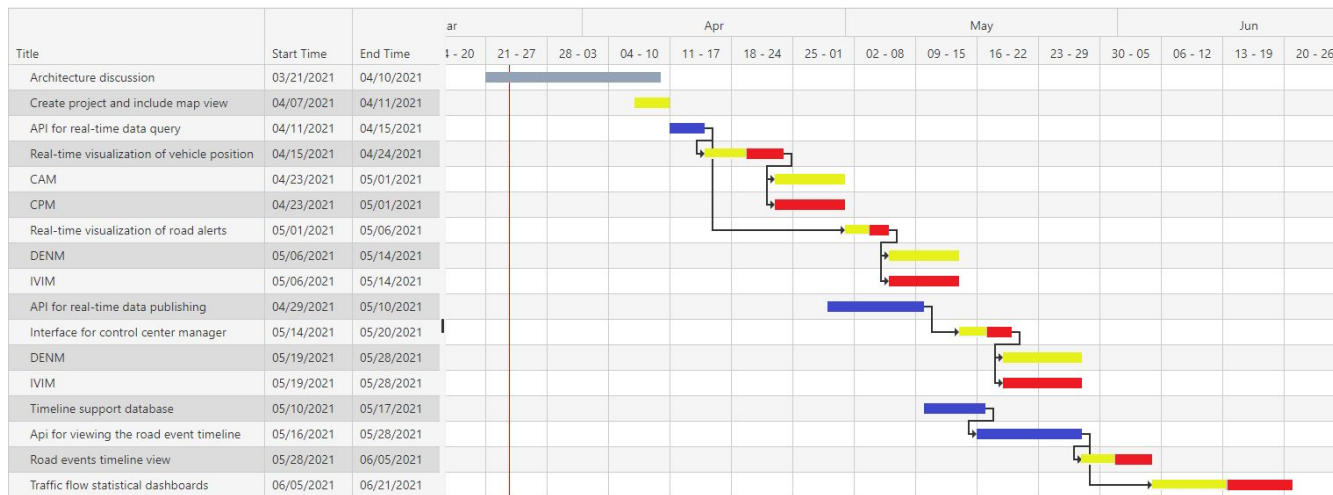
Objectives

Mobile App

- Surveillance using the infrastructure.
- Drivers and other users being able to generate alerts.

Web Interface

- C-ITS events visualization and creation.
- Monitoring platform.

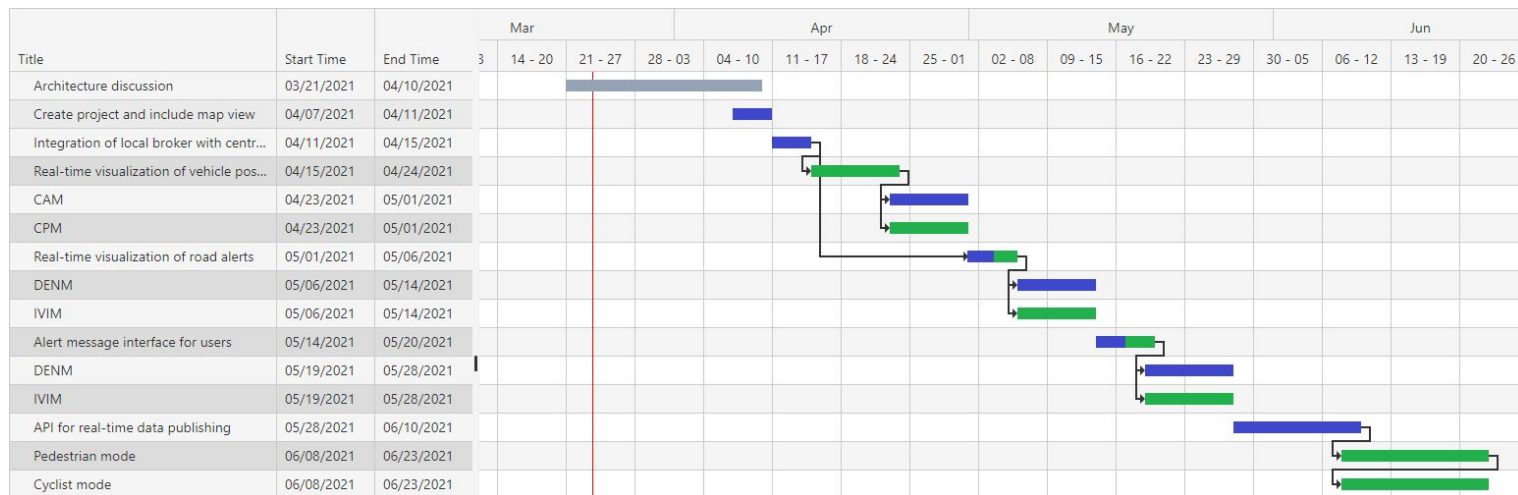


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Milestones and deliverables

- D1: Backend: Broker - Real time data query
- D2: Frontend: Web interface
- D3: Frontend: Mobile application
- D4: Backend: Database and API - Long term data query




Expected results

Real time visualization of the data produced by the infrastructure.

Creation of real time alerts, for example, blocked roads and accidents.

Working Mobile App and Web Interface.



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