PROJECT ARC

DEPARTMENT OF ELECTRONIC, TELECOMMUNICATIONS AND INFORMATICS

PEI 2019/2020

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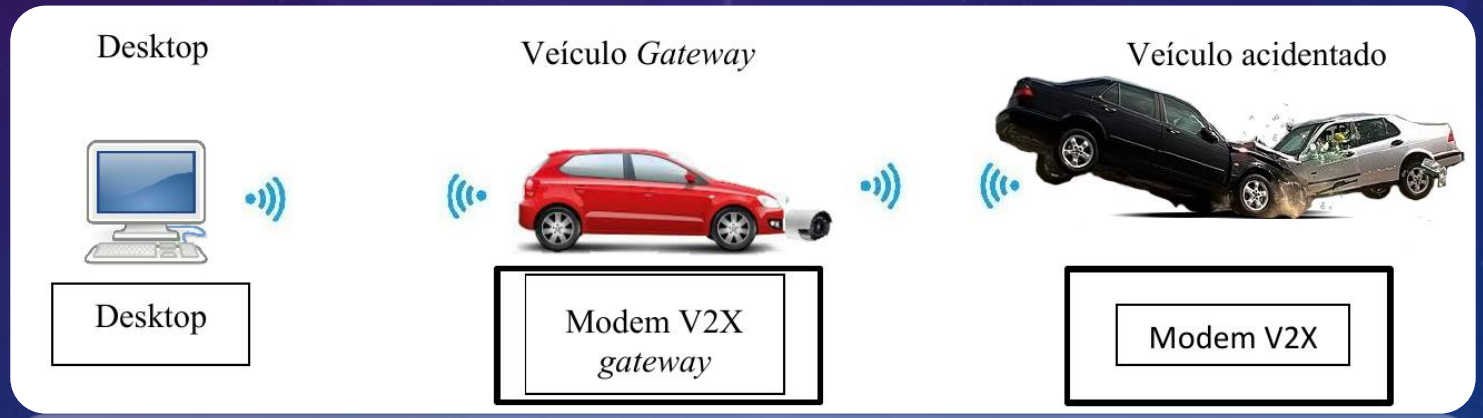
CONTEXT – WHAT IS PROJECT ARC?

- Project ARC (Autonomous Rescue Communications) is a system designed to alert emergency services using cellular communications in the case of a car accident so it can minimize response time and keep the emergency professionals updated via a photo or video stream on a dedicated dashboard.



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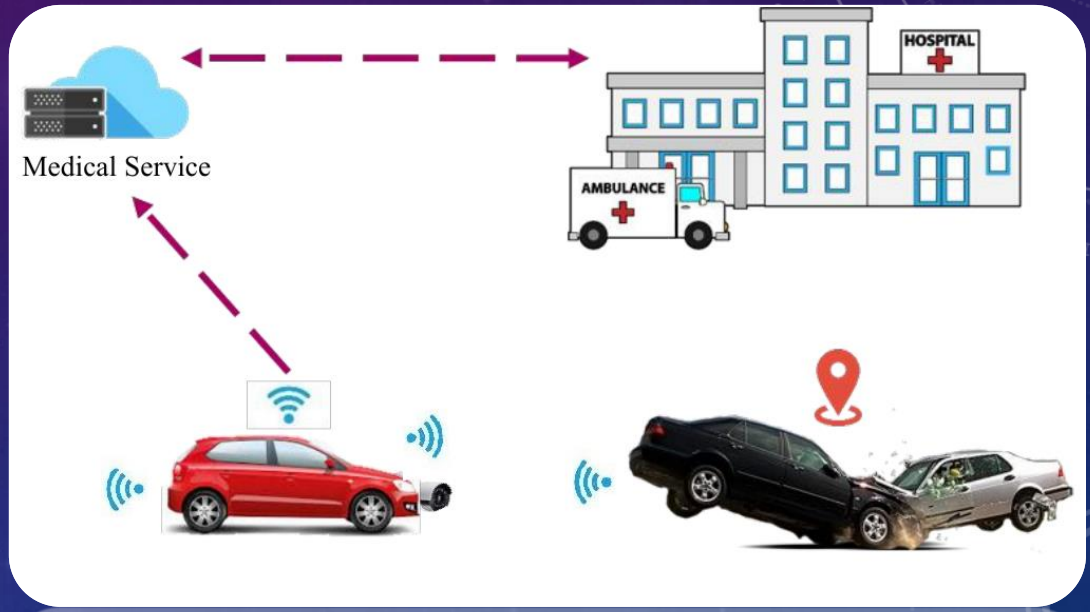
PROBLEM

- Human intervention needed to notify emergency services about the accident
- No safe way to report status with pictures



GOALS

- Develop a system that can optimize the way that emergency resources can be assigned to a specific occasion.
- Reduce the time spent in communications between emergency resources (police, medical care...) and automate it as well.
- Help emergency teams understand the severity of the accident using live feed information(video/photos).

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TASKS

1. Hardware selection
2. Web app for information display and processing
3. Communication System
4. Video processing

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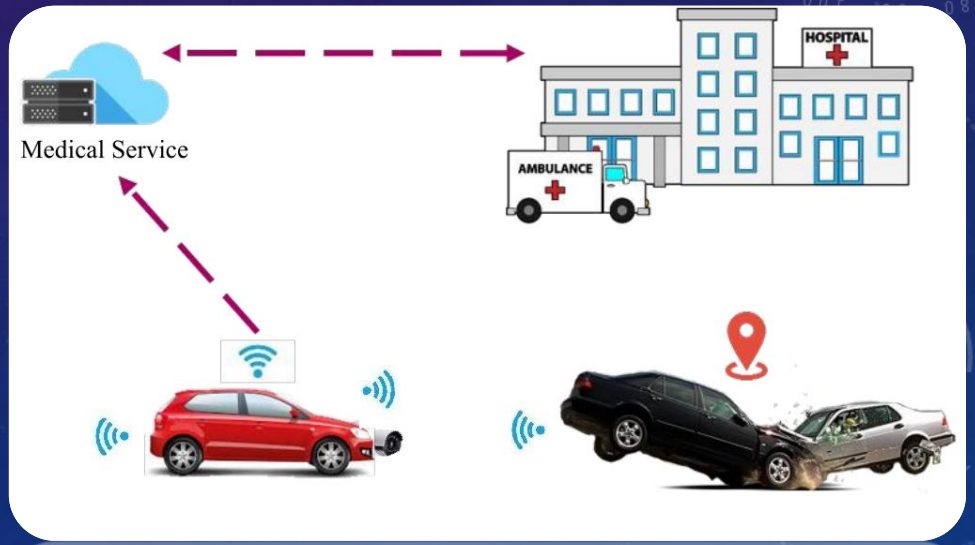
EXPECTED RESULTS

- A fully autonomous system that can help save lives by contacting emergency services when needed.



RELATED WORK

- 5GCar - A European funded project to develop several use cases of V2X communications in driving.
- When Backscatter Communication Meets Vehicular Networks: Boosting Crosswalk Awareness – Made in IT, it uses V2X communications to disseminate information, namely, the presence of pedestrians in a nearby crosswalk

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QUESTIONS?

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