

Problem Background

- Puerto Rico's improperly maintained roads (particularly in rural areas) and the lack of insurance coverage for road assistance leave drivers helplessly stuck on the road.
- Jeff Cox, president of the Automotive Maintenance and Repair Association, says that hitting a pothole can cause damage to tires, including a blowout of the sidewall or a puncture if the force is strong enough.

Countermeasures

- Create a Web Application to facilitate the process of finding independent and available tow truckers to help stranded drivers on the spot.
- Give drivers the ability to report pot holes to the appropriate authorities (through web application).

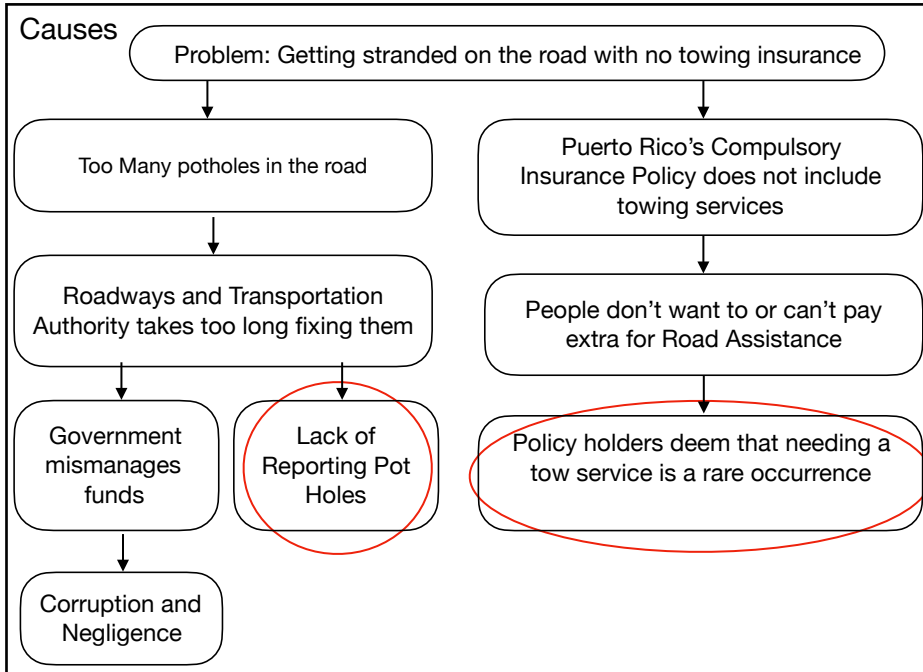
Target

- Give stranded drivers who lack insurance coverage for Road Assistance a quick, on the spot, affordable towing service by 2023.

Check/Evaluate

- To measure success, we will have to evaluate the ratio of active tow truck drivers to stranded drivers and how it affects the average waiting times for stranded drivers.
 - Failure would be ludicrous waiting times for stranded drivers and/or lack of users on both ends of the platform.
- Monthly road inspections through reported pot holes locations will indicate if authorities are actually fixing the problem or if more reporting is needed.

Causes



Act/Standardize

- This project will provide great team experience in developing a real-time data-driven web application with a user-friendly interface.
- This project could be marketed to private companies, such as insurance companies, that need help dispatching their workers to their policy holders in need of Road Assistance.
- This project will enhance team members' skills, yielding professional and academic benefits in future projects and assignments.