eit Urban Mobility

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RideSafeUM

EU Safety Conference

Vienna, 23rd June 2022

Speakers

Ramon Morros - Associate professor at UPC

George Voulgaroudis - CEO at BrainBox

Content

Brief introduction to EIT Urban Mobility

Project background and key objectives

Computer vision within RideSafeUM

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THERE ARE NEW KIDS ON THE BLOCK

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New mobility, new problems?

Lack of awareness of rules

Conflicts among road users

Accidents and injuries

What RideSafeUM wants

Improve safety conditions for micromobility riders (and pedestrians)

Increase ridership of these modes, making shared services feasible

Contribute to achieving sustainable mobility systems in cities

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How RideSafeUM works

User solution

Warnings on speeding
Warnings on access bans
Identification of accidents

City Dashboard

Easy update of regulations
Data analytics
Accident reaction

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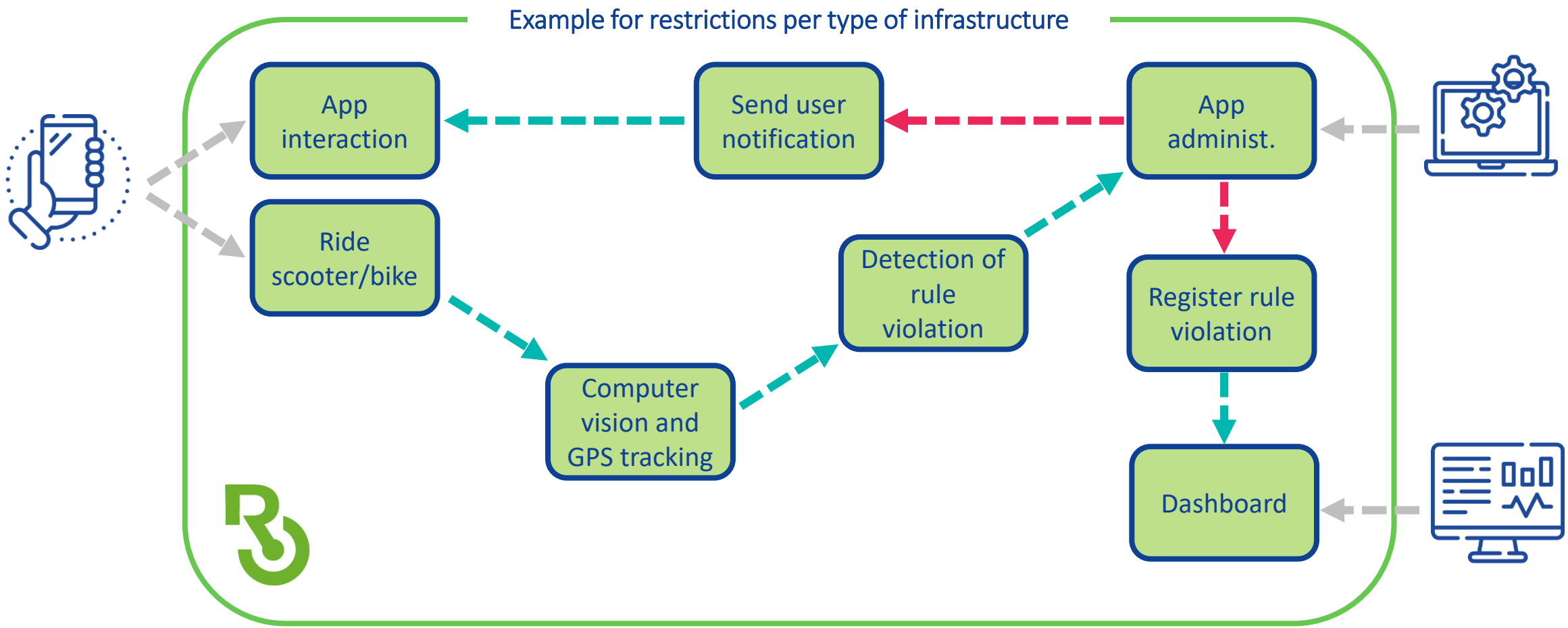
How RideSafeUM works in the background



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Top priorities for cities

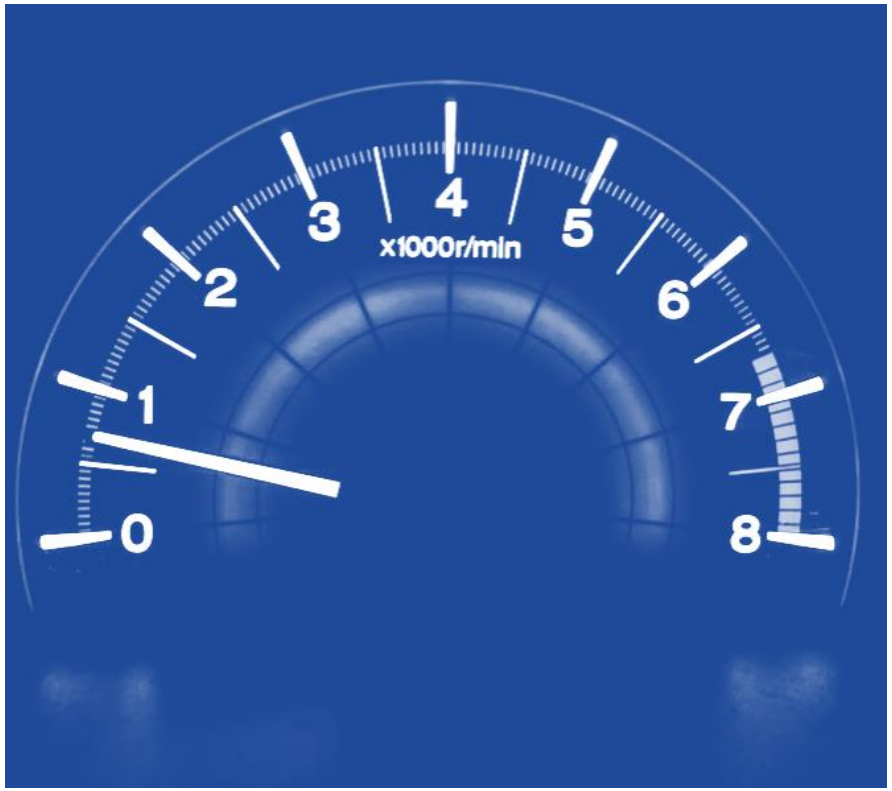
Warning users of rules and incompliances

Easily editing restrictions for micromobility

Analysing accident and infraction data

What are the most concerning incompliances?

Riding micromobility on banned infrastructure



Surpassing the established speed limit

RideSafeUM feeds from camera images

Images are recorded either through the user's smartphones or using an external camera

These images are analysed using an algorithm that determines the kind of surface the user is riding on
Users are warned if they are incurring on an incompliance

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What about accidents?

When an accident is detected, the last 10 seconds of recording are sent to the RideSafeUM dashboard

Cities are able to watch the video and decide on whether it is worth calling emergency services

Cities can categorise accidents and analyse data to make informed planning decisions

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Next steps

Pilot tests for RideSafeUM will take place from September to December in Barcelona, Rome and Thessaloniki

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