

TrailerMate

Team Jason

Abdessamad Amadar

Malaurie Bernard

Sarah Bobillot

Emilie Fraumar

Killian Gonet

Réda Kharoubi

Antonin Laborde-Tastet



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Reminder of the project







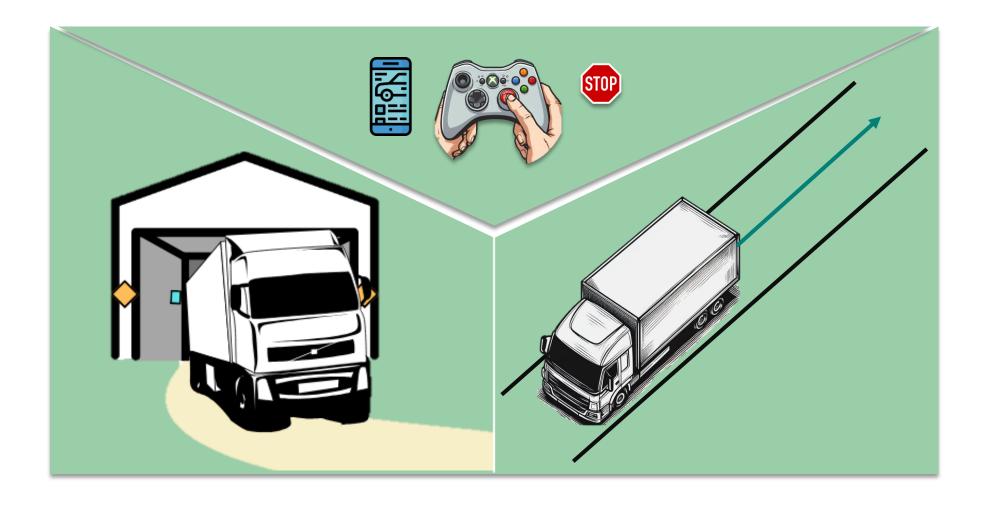








Reverse gear library



Schedule control & organization









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SCRUM Master: Emilie Fraumar

3 Goals

Trailer angle

Car automation

Obstacles detection

and testing













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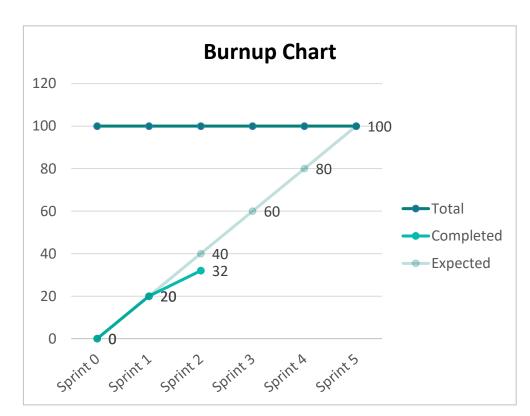


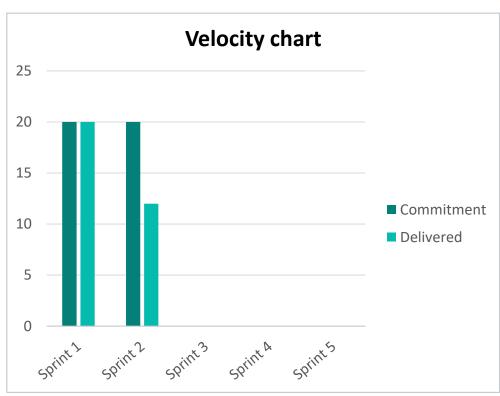












Slight delay on the overall project

Better assessment of task complexity



Schedule control & organization

8

8

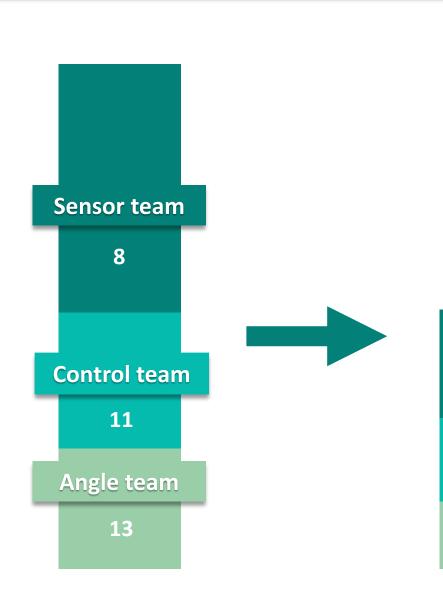








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Stopping in front of an obstacle *OK*

Detect obstacles with the trailer OK

Avoiding obstacles with the trailer *ABANDONED*

Closed-loop reverse control *OK*

Improve the wheel adhesion NOT STARTED

Measuring the angle of the trailer

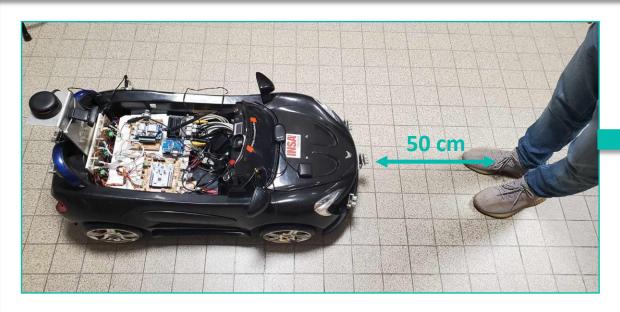
STARTED BUT NOT FINISHED

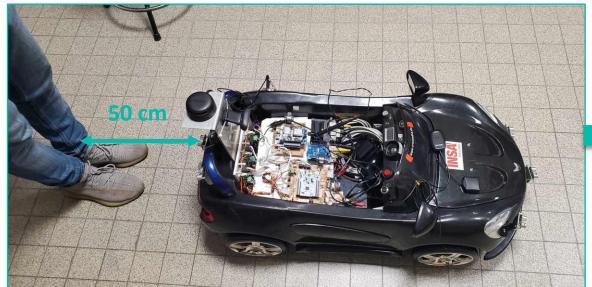


Obstacle detection

3







```
stop_car_rear: false
stop_car_front: true
```

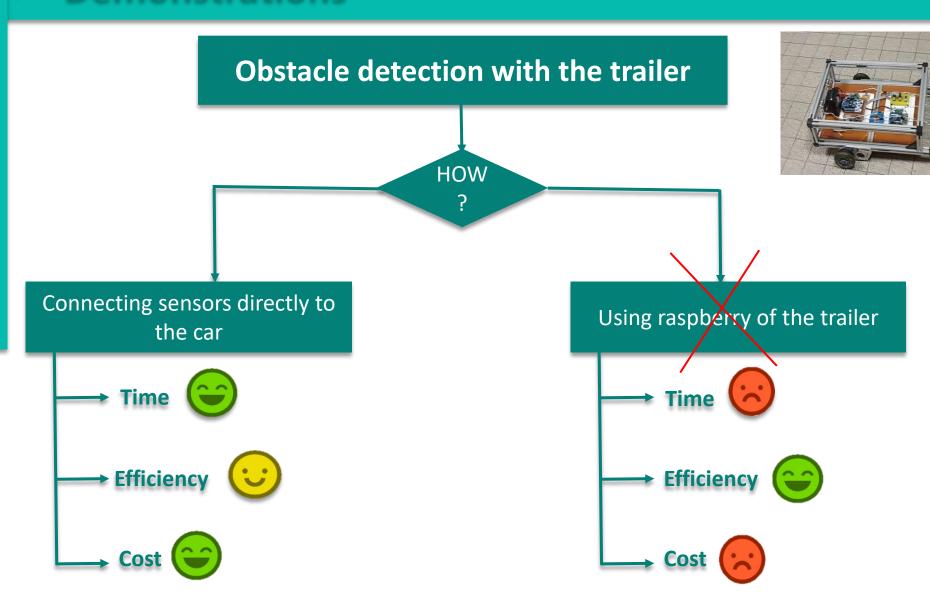
```
stop_car_rear: true
stop car front: false
```











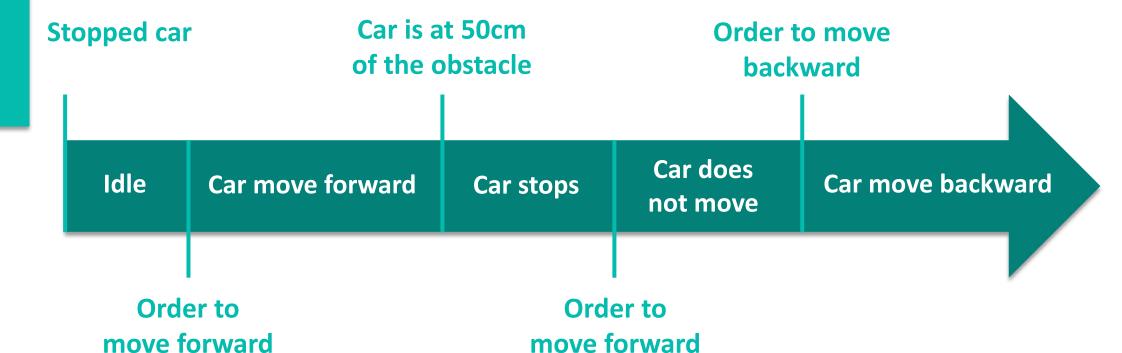








Demonstration sequence







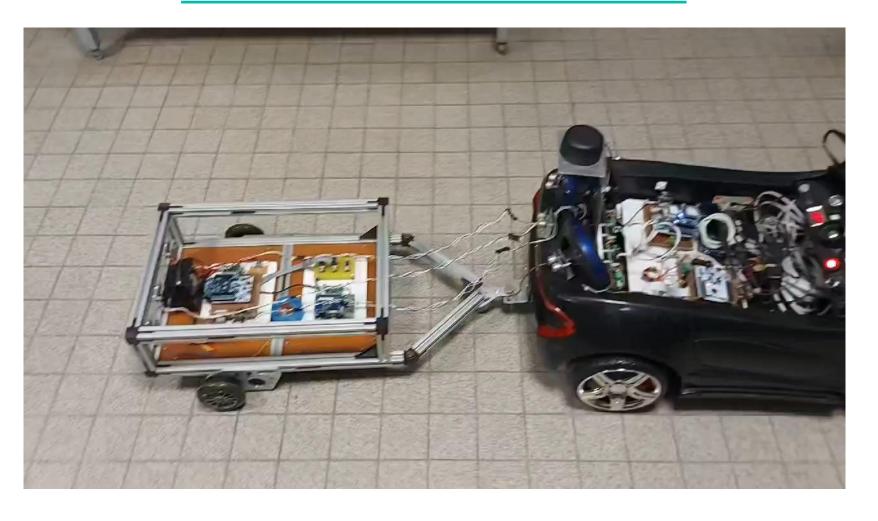








Let's see the demonstration!

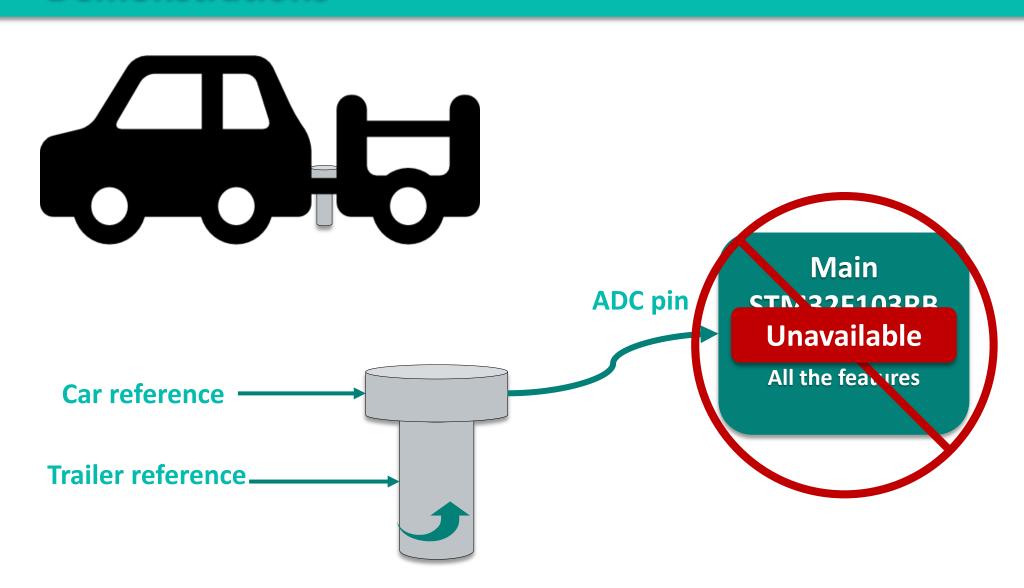




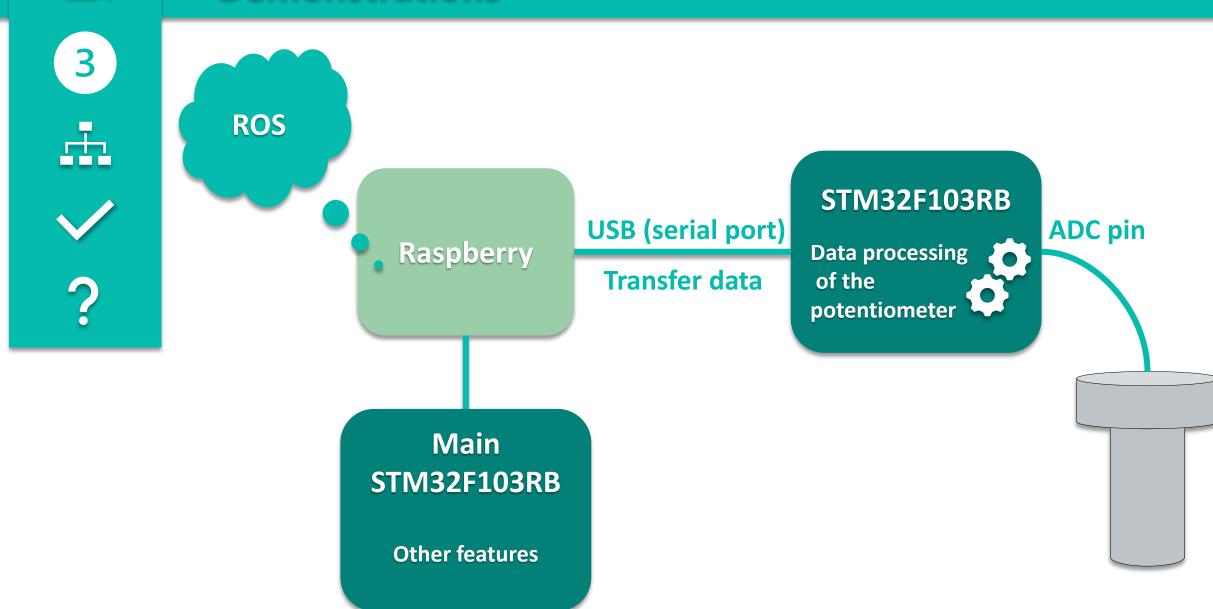




















Demonstration sequence







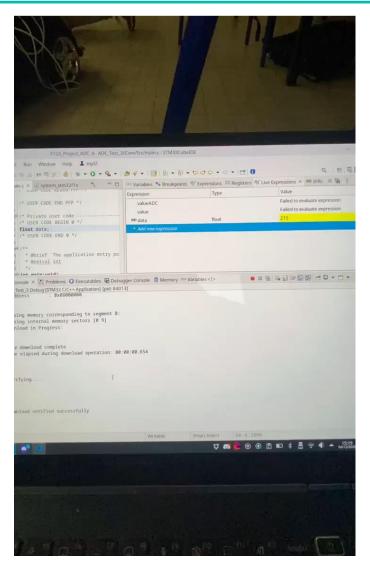








Let's see the demonstration!



Demonstrations

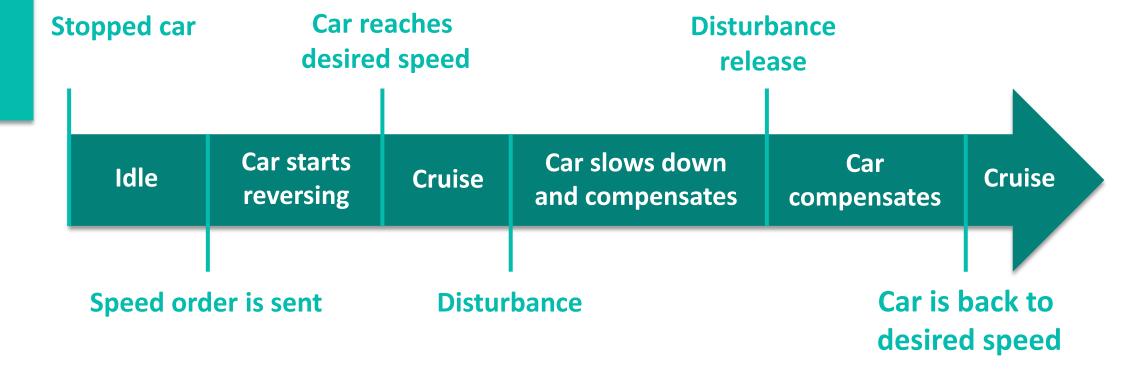








Demonstration sequence







Demonstrations

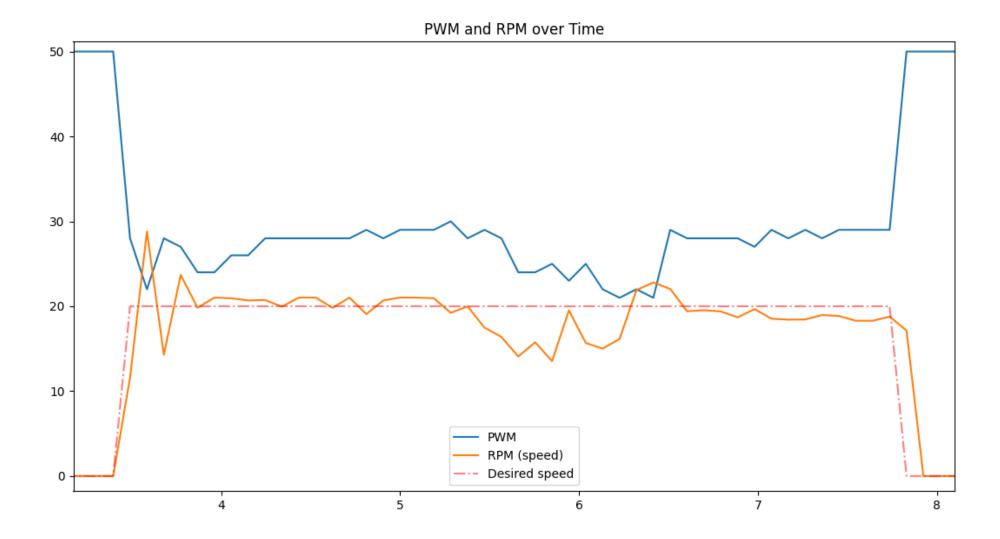








Let's see the demonstration!



Demonstrations





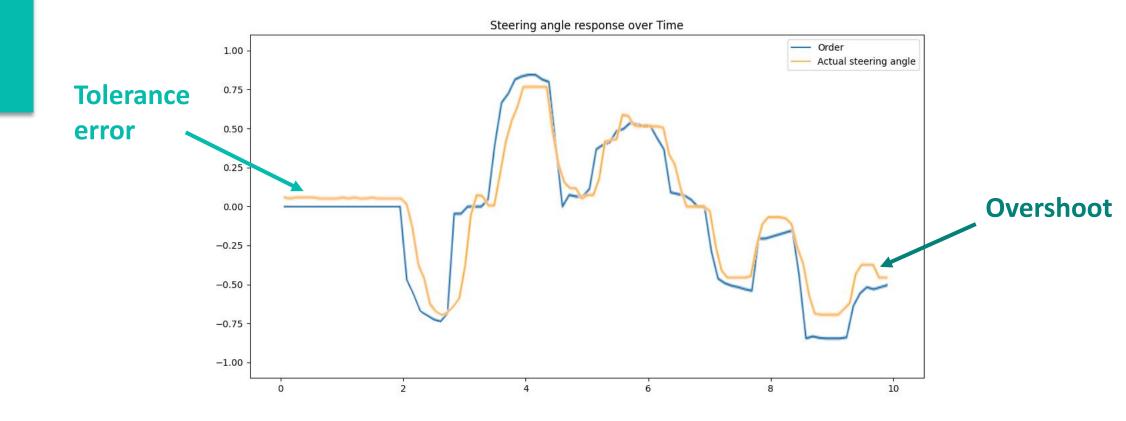






Car's steering control loop

The current control loop is operational! But ... not very precise











SCRUM Master: Sarah BOBILLOT

3 Goals

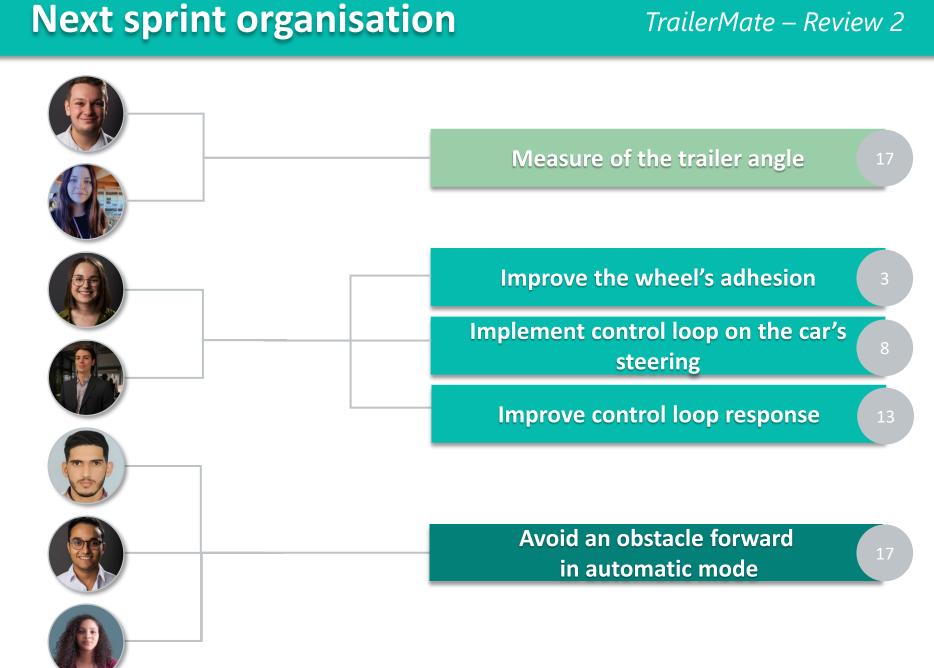
Trailer angle

Car automation

Obstacles avoidance







Next sprint acceptance test

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Trailer angle

Initial state: The car is stopped.

Action: Turn the trailer

manually.

Result: The sensor post the right angle of the trailer (at more or less 2 degrees)

Car automation

Initial state: The car is stopped.

Action: Ask the car to turn at a given angle.

Result: The car turns at the given angle.

Obstacles avoidance

Initial state: The car is moving forward.

Action: Put an obstacle in its path and run automatic mode.

Result: The car detects the obstacle, avoids it and continues.

