

FAQ

1. Do we have to build 4 physical robots for the first round?

Yes, you have to build 4 physical robots for the first round.

2. What is the weight of the package?

Given that in Round 2, it is expected that you make those packages, this will be based on the material you use - The package dimensions are mentioned in the Problem statement.

3. Is there any upper limit specified for the voltage of battery, or RPM of motors?

The problem statement was designed in a way so that you can make simple robots and focus on the wireless communication, vision & navigation algorithms of these multiple robots. It is unlikely that having JUST a faster robot will help you win the competition. We will not be using Round 1 rankings to determine the output of Round 2 - in which the distances quite small in which case speed will not help you at all.

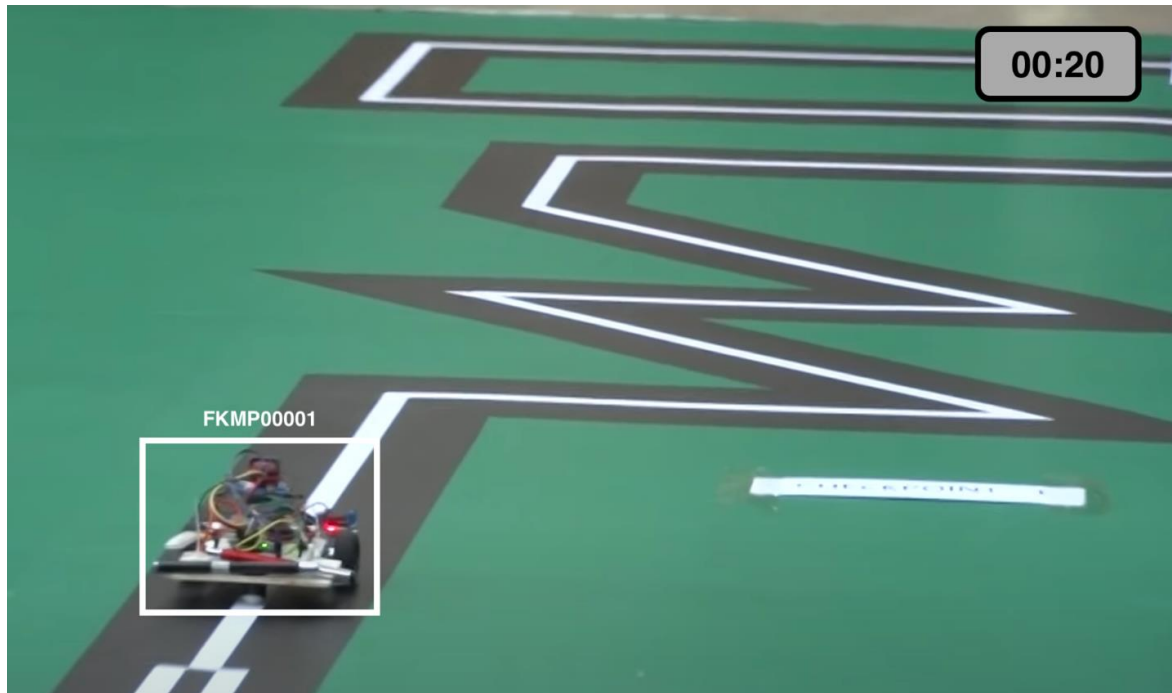
4. In this challenge do the robots can be controlled by remote or should be automatic?

Automatic. No manual intervention to software implies no remote control. It is expected that there is some central software which is coordinating the navigation of the robots. There should be no human intervention to the software once the round starts.

5. No sensors for navigation/object detection to be mounted on the robot? Should we not even have a camera for robot navigation?

No camera can be **mounted on the robots**. It is expected that you use a camera or an array of cameras, mounted on top of the arena to understand the position of the robots and then help them with navigation. The robots can talk to you and listen to you, but they can't see...

6. Can you please explain -- Uninterrupted Video of Live Image Processing - with Timer overlayed to show how robots are being tracked in real-time.



*Image for reference purpose only.

7. Do we have to show all 4 robot image processing?

Live video of all cameras that are used for detecting the position of the robots needs to be submitted - Refer to Q6.

8. Can I change team composition after registering?

We are allowing changes to the team till Round 1 Submissions. Whatever team composition you declare at that point will be the final team composition.

9. Is it necessary that we should use same bots in the second round? Can we make modifications on the bot?

You can make any modifications you like as long as they fit the guidelines in the problem statement.

10. Can we stick QR codes on the floor and robot?

You may post QR codes anywhere you like, however, the sensing of those should not be done by the robots individually. It is expected that spatial awareness of the arena is generated by the central camera/ array of cameras.