

WRO WeDo 2.0 Pilot

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Idea of WeDo pilot

Why WeDo in WRO?

- In WRO we have an ambition of being relevant to students of different ages – and consequently offer competitions on platforms that provide a fun and challenging experience
- With WeDo we believe we can attract more young students to take an interest in robotics and see them progress into other WRO competitions as they get more experienced



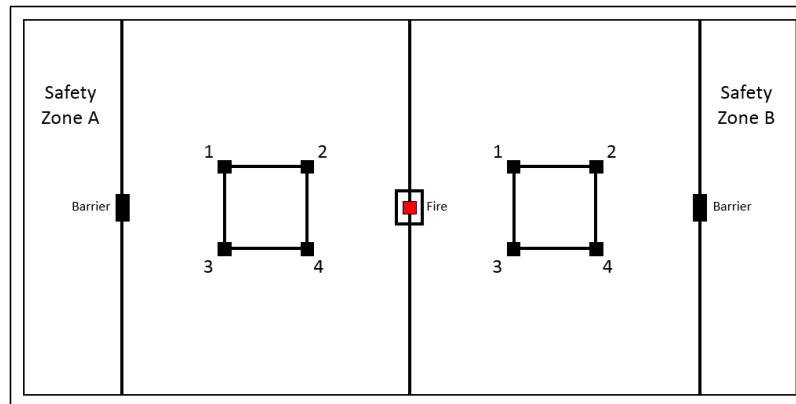
Game concepts

What are the game concepts?

- Together with LEGO Education we developed **three concepts**:
 - Regular Category Challenge
 - Open Category Challenge
 - Football Category Challenge
 - Regular and Open Category challenges are connected to WRO 2017 topic but with more simple missions and tasks
 - Football Category challenge consists of three basic tasks: 1) Penalty kick, 2) Ball dribble, 3) Lofted shot
- ➔ **As a pilot country we want you to test as least two of these three concepts!**

WeDo WRO Regular Category

- The Elementary WeDo 2.0 Regular Challenge is to make a robot that plays the role of a National Park Ranger. Rangers help visitors explore and investigate the wonders of nature without disturbing it. In this challenge, each team will build and program a robot ranger to keep the park tidy of litter, help contain a forest fire, pick up a visitor, and aid an animal. Just as it happens in Costa Rica, teams will each operate in their own national park working to do as much good work as possible in the 2 minutes of the competition.



WeDo WRO Open Category

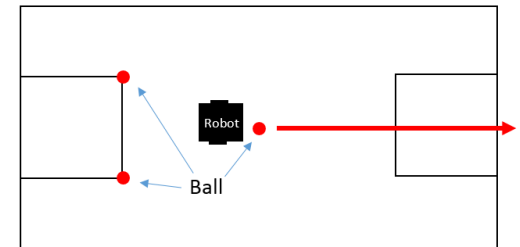
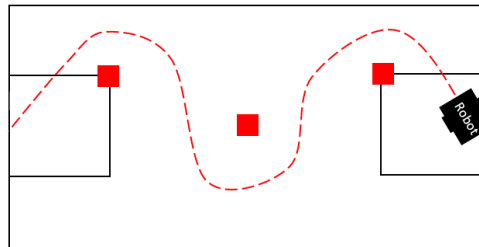
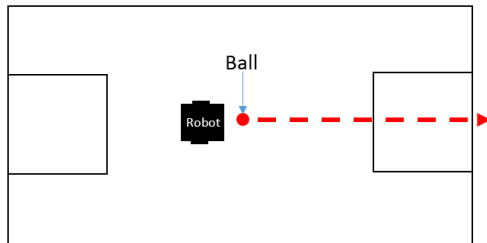
- *Teams build a robot that can help make the region they live in more sustainable in one of the four UN Sustainable Development Goals:*



- *They use the LEGO Education WeDo 2.0 projects for research and building inspiration and prepare to tell a story around their solution, which could be through a stop-motion video or group presentation, for example.*

WeDO WRO Football

- The WRO LEGO Education WeDo 2.0 Elementary football challenge aims to build the skills necessary to partake in future WRO football games using LEGO Education MINDSTORMS, while motivating students in engaging and fun football-inspired games.
- There are three skills the team's robot must display in the Elementary football challenge: Penalty kick, Ball dribble, Lofted shot



- Teams build autonomous or remote-controlled robots to achieve all three tasks in a series of timed rounds.

Age Group definition

For all three WeDo game concepts the age group definition is the same:

Kids up to 9 years old may participate

How WeDo fits in WRO age groups:

WRO WeDo: up to 9 years of age

WRO Elementary: up to 12 years old*

WRO Junior: 13-15 years old

WRO Senior: 16-19 years old

WRO ARC: 17-25 years old

**Students 9 years old or younger may participate in WRO Elementary.*

Process of the WeDo pilot in 2017

- We want to test as much as possible in 2017 and participating countries should test 2 of 3 concepts
- We request minimum 10 teams should participate in each concept
- In September we will ask participating countries to complete a survey, providing feedback on the tested game concepts
- The WeDo game concepts will only be tested on the national level of competition – teams will not progress to WRO 2017 in Costa Rica
- In November, WRO will decide which game concepts to include in WRO from 2018.

Contact options

The WRO WeDo 2.0 pilot is jointly organized by LEGO Education and World Robot Olympiad Association

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