

## What is the WRO ?

The WRO® (World Robot Olympiad™) is a robotics competition for children and teens. There are two different categories, but in both the construction and programming of a robot is an important component.

The competition is open to people aged 8 to 19 years, in three age groups, and in teams of 2 or 3 people with an adult coach. Teamwork, problem solving and informatics skills are gained – with a lot of excitement and fun!

After the regional competitions and the Swiss Finals, the best teams will represent Switzerland at the World Finals in Turkey or a friendship tournament.

Each year, around 70,000 children and teens from over 70 countries participate in WRO competitions.

WRO Switzerland is a member in the umbrella organization Science Olympiads Switzerland.



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WORLD ROBOT OLYMPIAD™  
 **WRO®**  
SWITZERLAND

The Robotics  
Olympiad  
in Switzerland

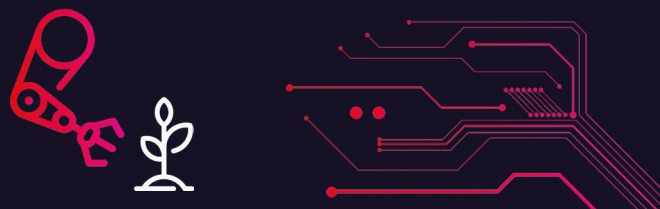


## FUTURE INNOVATORS

The Future Innovators category offers young people the opportunity to promote their skills and creativity by developing an innovative solution in a project of their choice. The task is derived from the annual motto, which is based on the UN Sustainable Development Goals.

The teams develop a robot or an automated robotic system that helps to solve a real-world problem. They are free to choose the technologies and materials they use. At the competition, they present their project to a jury.

The focus here is on interdisciplinary skills such as teamwork and project development, but the construction of the robot prototype also trains a wide range of skills.



## ROBOMISSION



In this classic competition category, children and young people build and program a Lego® robot (Lego Spike Prime, Lego Mindstorms Inventor, EV3 or NXT are permitted).

The robot is to solve tasks independently on a playing field of approx. 3 square metres. Usually, objects have to be transported and sorted by colour, while obstacles must not be moved. The robot has 2 minutes to do this.

The tasks are known from the start of the season on 15 January, but the placement of certain objects on the playing field is determined at random on the day of the competition.

Therefore, the robot must be able to decide on its own where to place a certain object or what other action to perform.



## Dates for the Season of 2024



1 December 2023 – 15 March 2024  
**Registration** through the online system at [wro.swiss/anmeldung](https://wro.swiss/anmeldung)



15 January 2024  
**Publication of season tasks** at [wro.swiss/aufgaben2024](https://wro.swiss/aufgaben2024)



January – April 2024  
**Construction** and **programming** of the robot



20 April – 18 May 2024  
**Regional Contests** in 9 locations in 3 language regions (**RoboMission**)



22 June 2024  
**Swiss Finals (RoboMission)** and **Future Innovators** contest in Hausen AG



September 2024  
**Friendship Tournament** in Italy



November 2024  
**World Finals** in Turkey

## Information and registration

<https://wro.swiss>  
[info@wro.swiss](mailto:info@wro.swiss)

