

# ROBOTICS COMPETITION WITH A TWIST

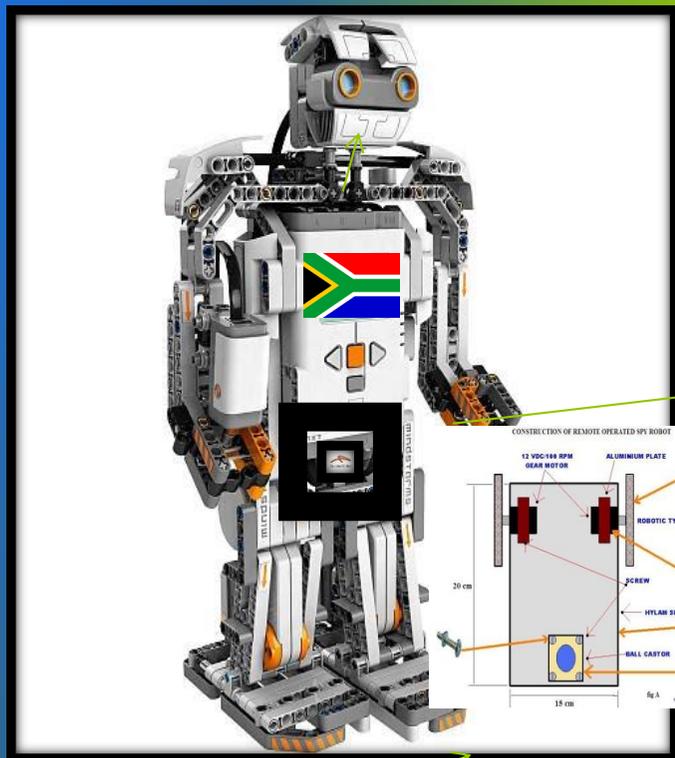
Afrobot is an amateur robotics tournament that aims to provide South African learners with an opportunity to get involved in a technical projects within a supportive and edutaining environment

## Our mission

To develop young scientists who are able to identify a problem, analyse information, find solutions and communicate findings effectively

## Our Objectives

Stimulate the interest in STEM for learners.  
Demonstrate to the learners that Mathematics and Physical Science are exciting subjects



## Afrobot Programme

The tournament competition offers learners the opportunity to gain knowledge about electronics, demonstrate creativity and innovation, develop technical skills, employ a strategic mind-set and promote fair play. Exploring the exciting concepts of what is a robot?

## Benefits of Afrobot Workshop

Taking part in the programme exposes learners to a variety of skills:

- Problem solving
- Team work
- Technical skills (soldering, connection wiring, using a glue gun)
- Programming skills

The ArcelorMittal Science Centre started the programme in 2011 with 6 local schools and this number has grown to 12 schools this year. Initially the number of learners was 12 and this has increased to 36



## Energy

The power source is transmitted to the robot through an electrical cable. The maximum voltage in between any of the wires should be less than 13.8V

Robotics for Young Scientists is an exposition, or science fair, where students have a chance to show others their projects about their own scientific investigations.

## Conclusion

Robots are useful in many ways. For instance, it boosts economy because businesses need to be efficient to keep up with the industry competition. Therefore, having robots helps business owners to be competitive, because robots can do jobs better and faster than humans can, e.g. robot can build, assemble a car.

