



Eurobot 2018



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The story

75 years ago, Isaac Asimov published the three Laws of Robotics...

Because in the future, robots will build our cities, keeping respect for the nature, we need to teach them new laws...



The new laws

1. A robot must always take care of its natural environment (bee, flowers...)
2. A robot may use natural resources except where such use would conflict with the First Law (water, landscape, materials,...)
3. A robot may build comfortable houses, as long as such action does not conflict with the First or Second Laws



Robot Cities



Innovative ideas

- Shooting...
- Artificial Intelligence...
- Motion without electricity...
- Electrical board...
- Building...
- New possibilities for detection/positioning...

Please innovate! The ground table will be flat and we will design a realistic line tracking!



Focus on actions (1/2)

- **Actions in 3 distinct domains:**



- **Shooting**
 - Focus on shooting rather than collecting balls
- **AI**
 - Estimate your points: manually before the match, or automatically during the match

Focus on actions (2/2)

- **Funny action: a bee has to reach a flower (law 1)**
 - in a mechanical action only (no electricity)!
- **Domotic board (law 3)**
 - Invent, innovate, design on your home made electronic board which would be activated during the match

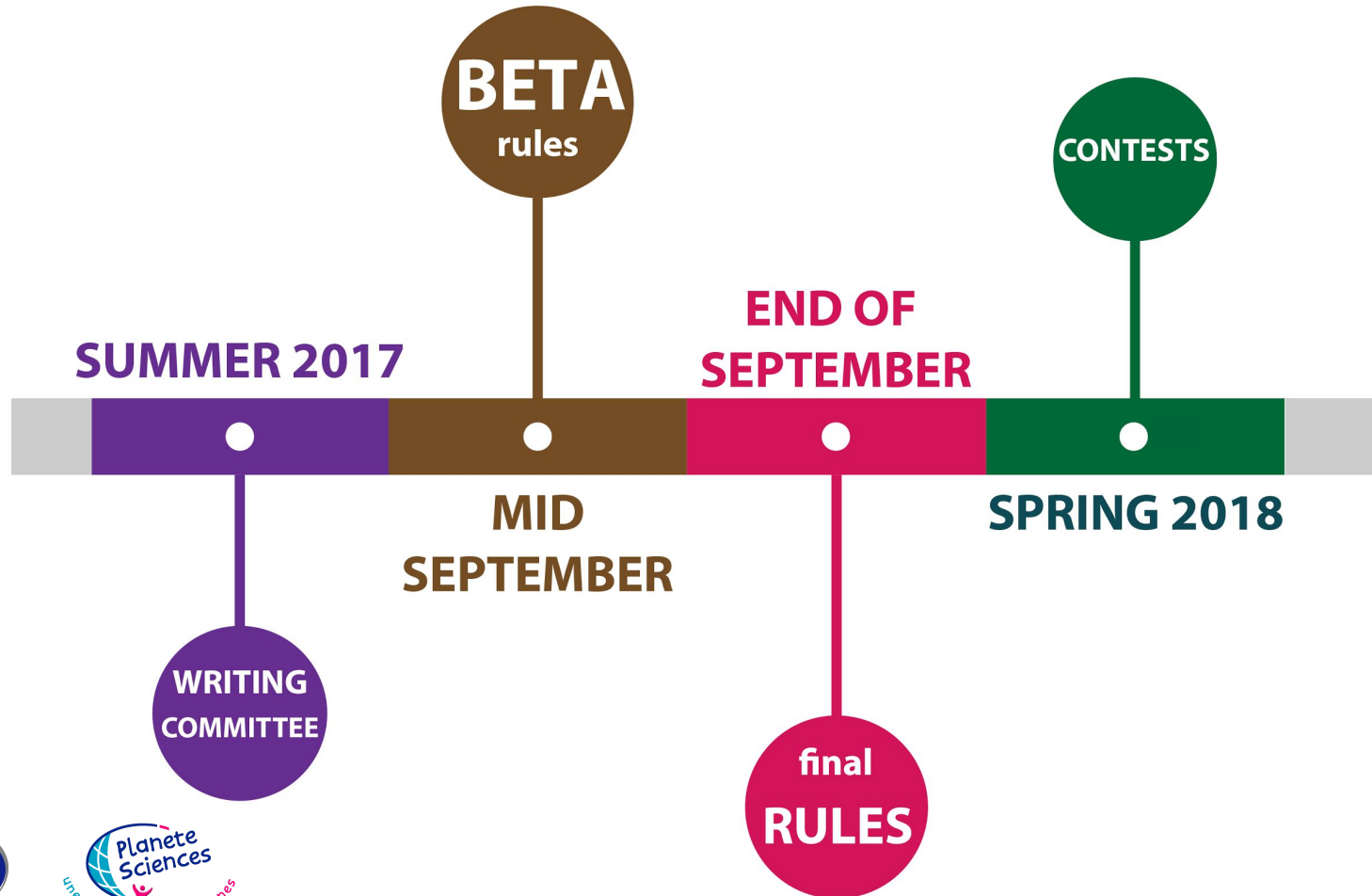


Focus on detection

- **New possibilities of detection/positioning with beacons:**
 - Two more fixed beacon supports for each team
 - Dimensions: about 20 cm x 20 cm
 - Height: ~1000 mm and 70 mm and located at the level of the edge.

It's up to you to invent new way of detection!







Planète Sciences partner for innovation

