

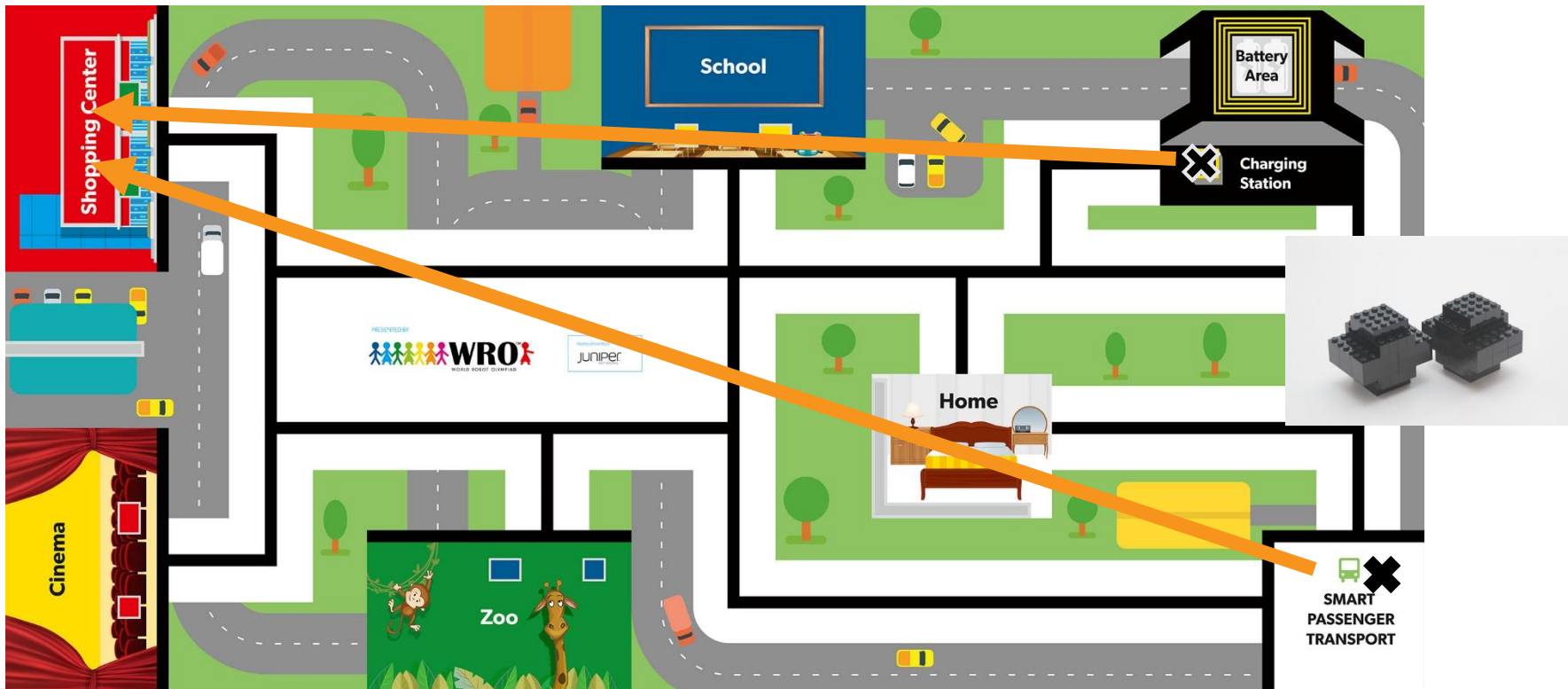
Regular 2nd day challenges

WRO Friendship Invitational 2019

ELEMENTARY CHALLENGES

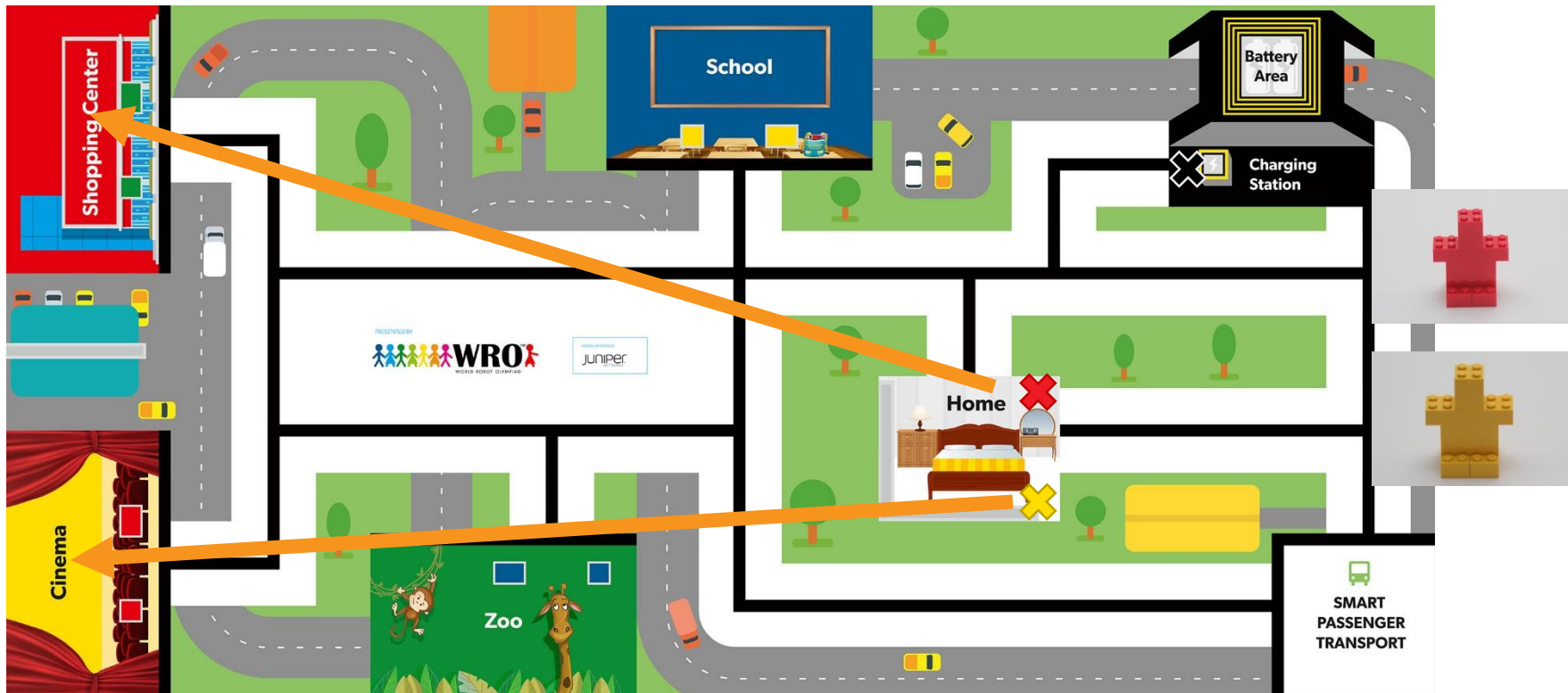
Mission 1 – Moving Battery Blocks

- One battery block is placed at the charging station, one battery block can be added to the robot at the start area (like the normal game)
- 30 points per battery block that is **completely in the Shopping Center**



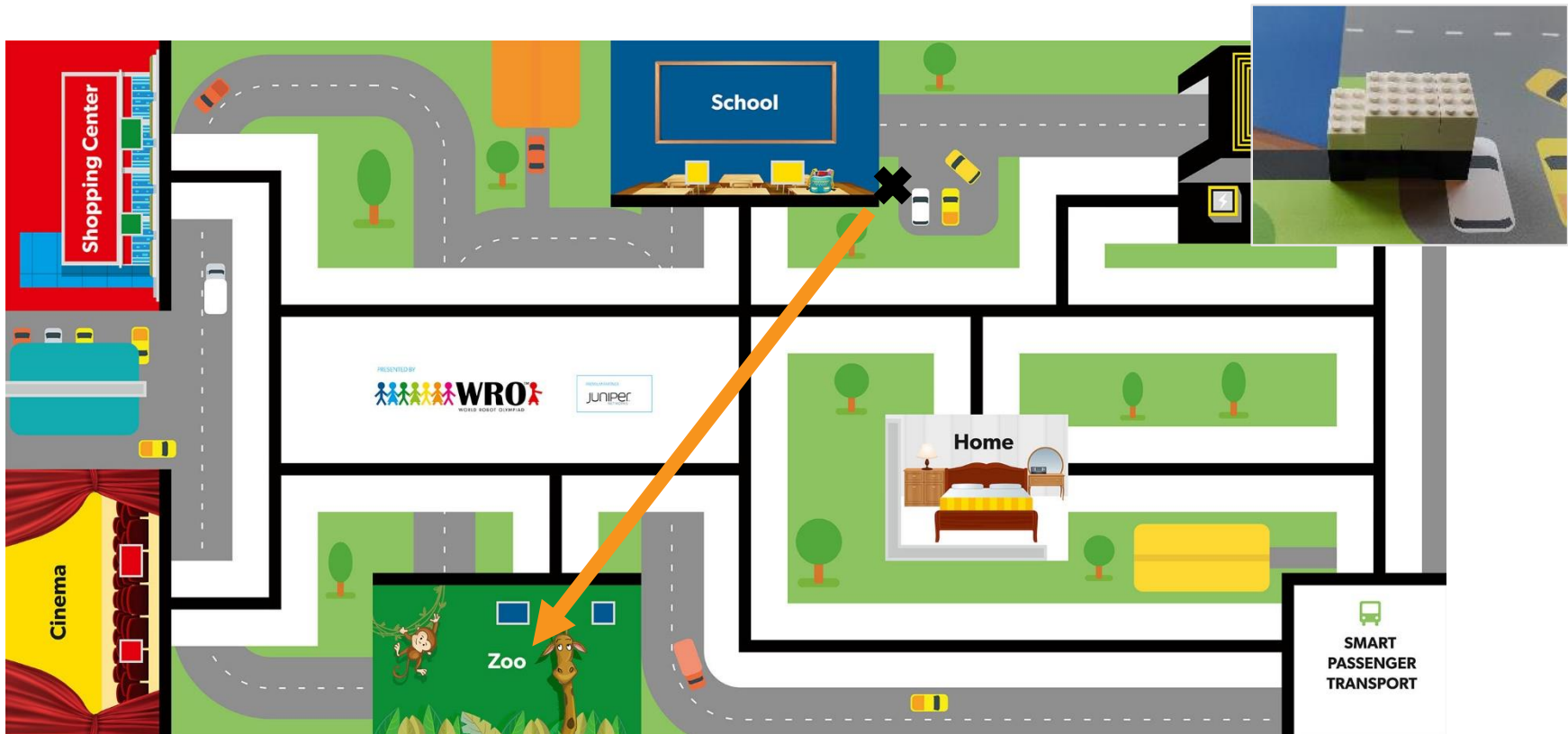
Mission 2 – Moving Children

- There are two children at the corners of the home area (one red and one yellow child). Bring these two children to their areas (red and yellow)
- 30 points per child that is **completely in the correct colored area**



Mission 3 – Moving the Car

- There is a car that stands near the school. (see picture) The car needs to be transported to the Zoo Area.
- 30 points for the car that is **completely** in the zoo area



Scoring 2nd day Elementary

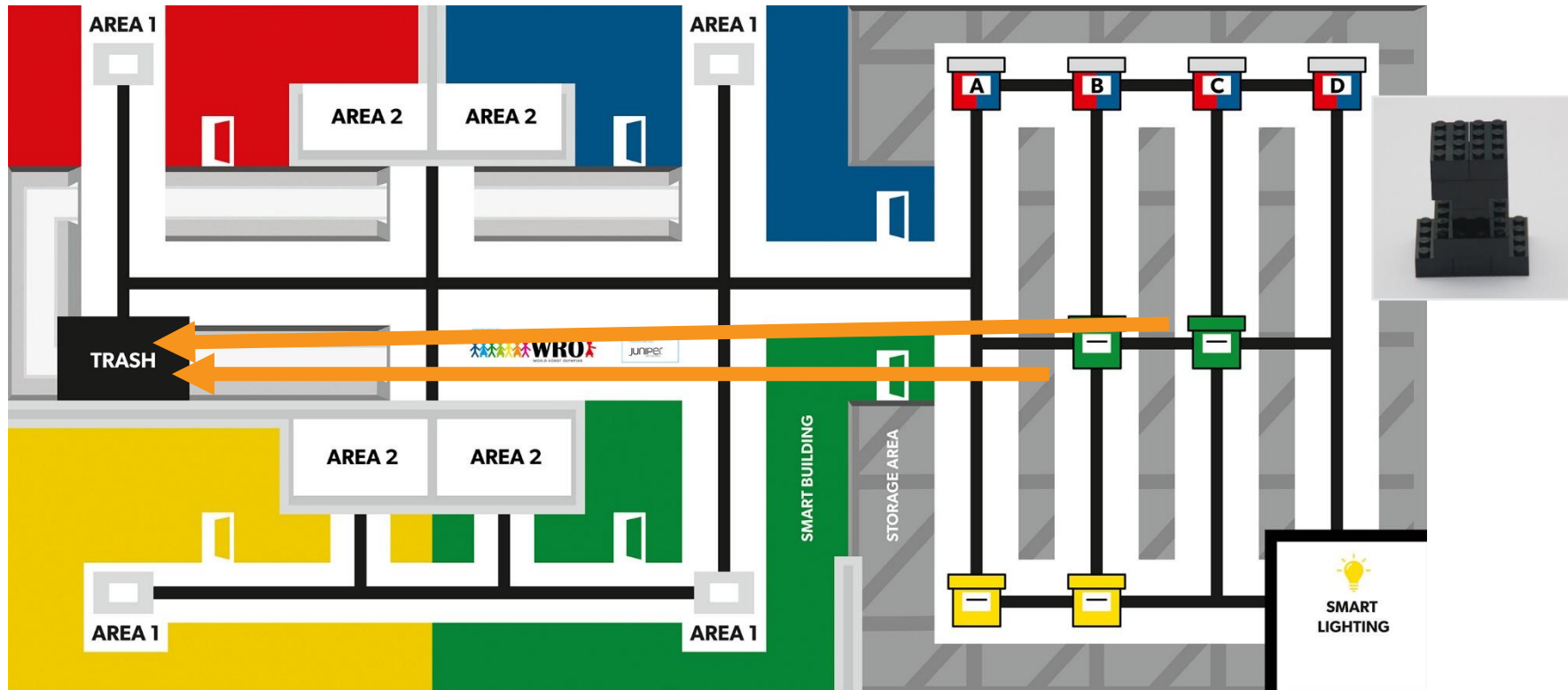
Tasks	Points each	Total
Moving battery blocks Completely in the shopping center <i>(no matter if standing or not)</i>	30	60
Moving children Completely in the correct colored area <i>(no matter if standing or not)</i>	30	60
Moving the car Completely in the zoo area <i>(no matter if standing or not)</i>	30	30
Sum		150 points

Maximum score of normal game: 165 points

JUNIOR CHALLENGES

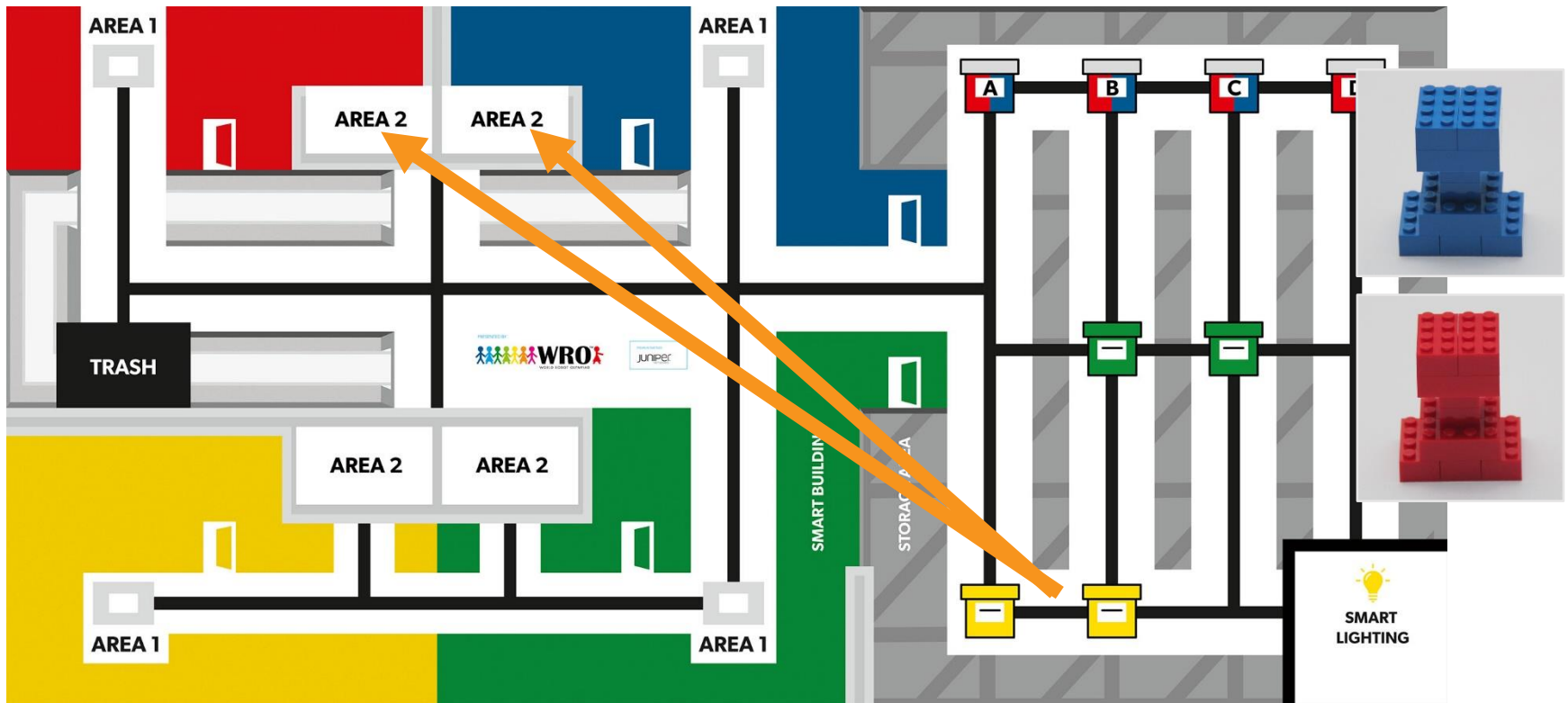
Mission 1 – Move the Black Bulbs

- There are two black bulbs on the green positions. Bring them into the trash area.
- 30 points per black bulb that is **completely in the trash area**.



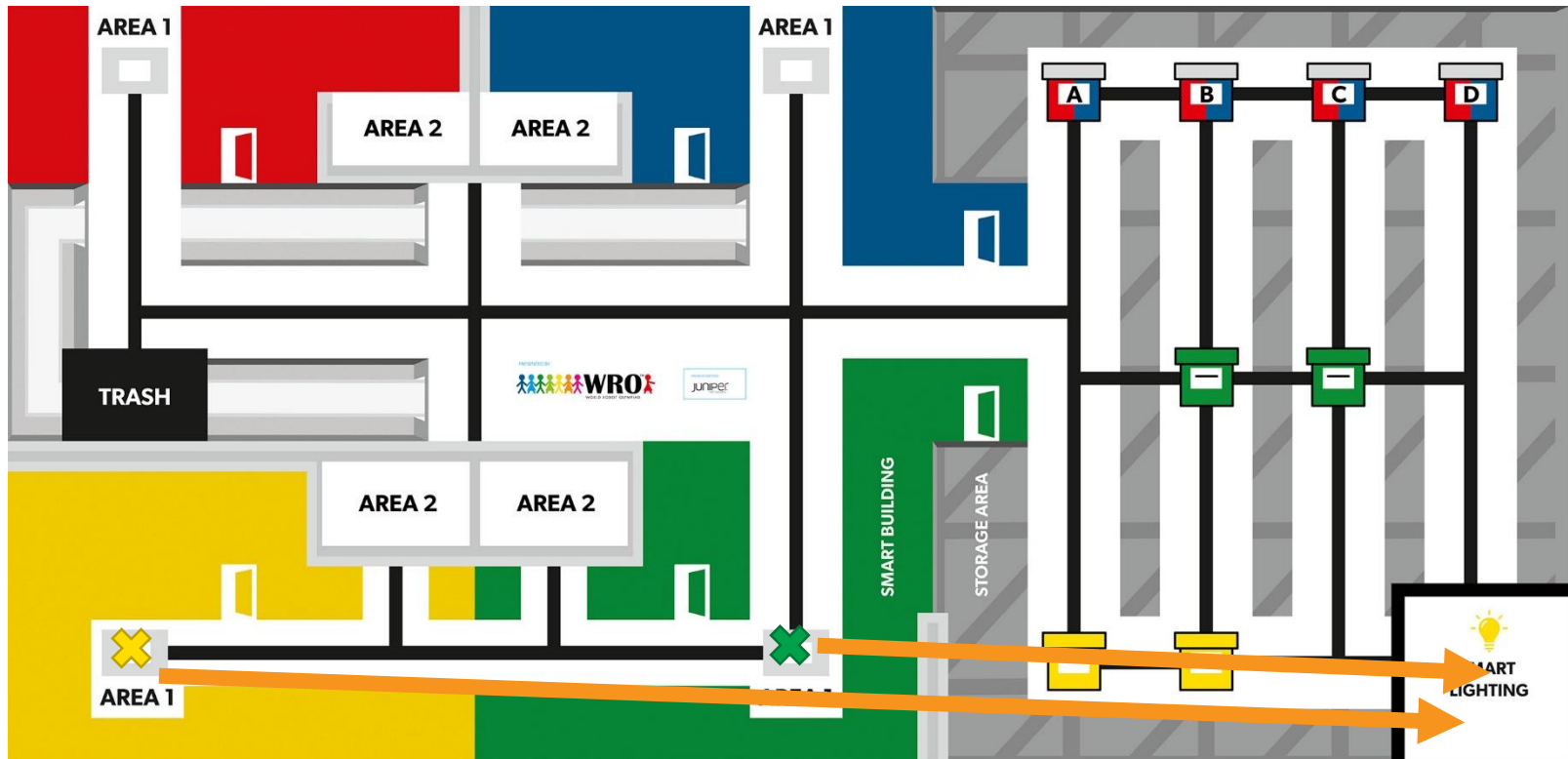
Mission 2 – Move the Red / Blue Bulbs

- One red and one blue bulb is randomly placed on the yellow positions. Bring them in AREA 2 of the correct colored area (blue into AREA 2 in the blue area etc.)
- 30 points per red / blue bulb that is **completely in correct colored AREA 2.**



Mission 3 – Move the Yellow / Green Bulbs

- Collect the yellow and green bulb (always on AREA 1 at the beginning) and bring these bulbs to the start & finish area.
- 30 points per yellow / green **completely in the start & finish area.**



Scoring 2nd day Junior

Tasks	Points each	Total
Move the black bulbs Completely in the black trash area <i>(no matter if standing or not)</i>	30	60
Move the blue / red bulbs Completely in the correct colored AREA 2 <i>(no matter if standing or not)</i>	30	60
Move the yellow / green bulbs Completely in the start & finish area <i>(no matter if standing or not)</i>	30	60
Sum		180 points

Maximum score of normal game: 200 points

SENIOR CHALLENGES

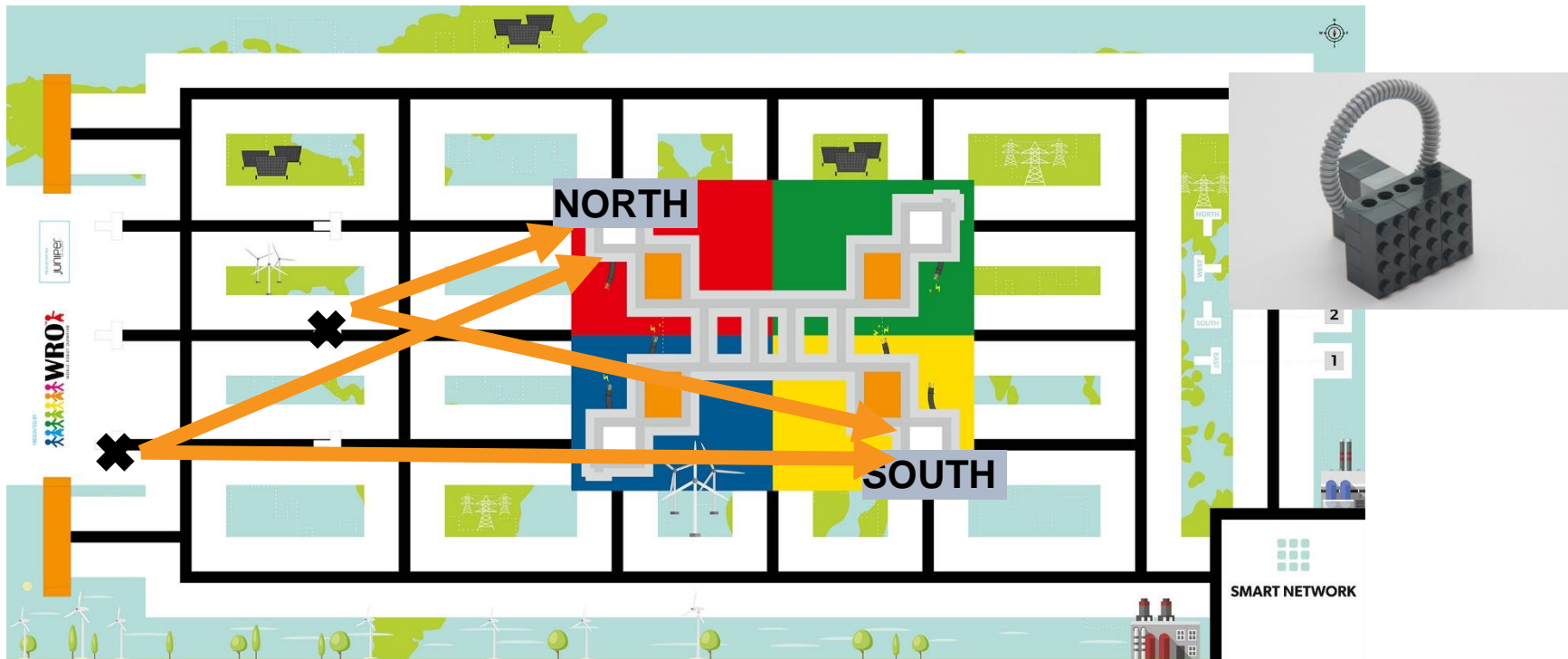
Mission 1 – Move the Colored Blocks

- Bring the 4 colored blocks to the marked red area on the field (the black line do NOT count towards this area).
- 10 points per colored block that is **completely in the marked area**.



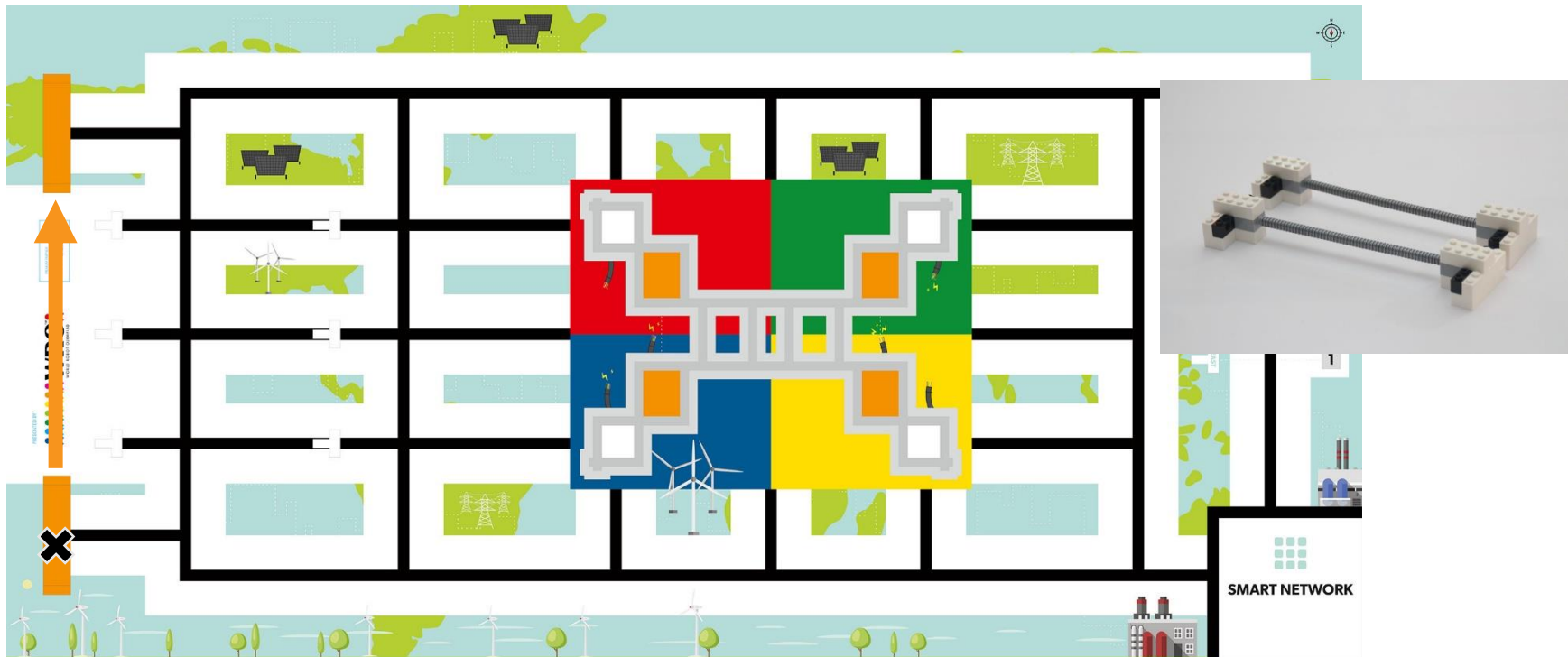
Mission 2 – Move New Devices

- There are two new black node devices on the marked positions. Bring them to the white areas on NORTH and SOUTH orientation.
- 30 points per new node device that is **completely in the white area in the correct orientation.**



Mission 3 – Move Fiber Optic Cable

- There is ONE fiber optic cable on the marked position. Bring the cable to the other orange area to the top.
- 30 points if the fiber optic cable is **touching the other orange area**.



Scoring 2nd day Senior

Tasks	Points each	Total
Move the colored blocks Completely in the marked red area (no matter if standing or not)	10	40
Move new devices Completely in the correct area in the correct orientation.	30	60
Move the fiber optic cable The fiber optic cable is touching the other orange area.	30	30
Sum		130 points

Maximum score of normal game: 200 points