

Dries Kennes <ceo@marsrover.space> Laurens Van de Walle<cco@> Christophe Bulcke<christophe@> Jonas Michiels<jonas@> Robbe Goovaerts<robbe@>

Turtlebot: Mars rover

https://marsrover.space

Mission

- 1) Scan 360° for POIs
- 2) Drive to selected POI
 - Map environment
- 3) "Collect" sample
- 4) Back to 1)



Design

Perception

• 3D camera

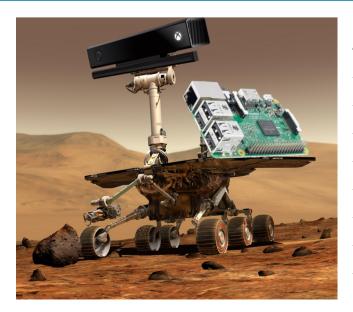
Decision

Raspberry Pl

Actuation

- Motor: Control wheels
- Gripper

Timeline



	20/2	27/2	6/3	13/3	20/3	27/3	3/4	Easter	24/4	1/5
Task management										
Hardware introduction										
Motor actuation										
Gripper actuation										
Acquire image stream										
Detecting POIs										
Pathfinding										
Terrain mapping										
Integration										