ROBOCUP@SPACE

A PROPOSAL BY THE CONSTRUCT (IN ALPHA STATE)







INCREASING INTEREST IN SPACE



NCREASING INTEREST IN ROBOTS



NASA SPACE CHALLENGE



GOAL OF THE COMPETITION ROBOTS THAT DO USEFUL THINGS IN SPACE (FOR HUMANS)



BASIC QUESTIONS WE ASKED OURSELVES

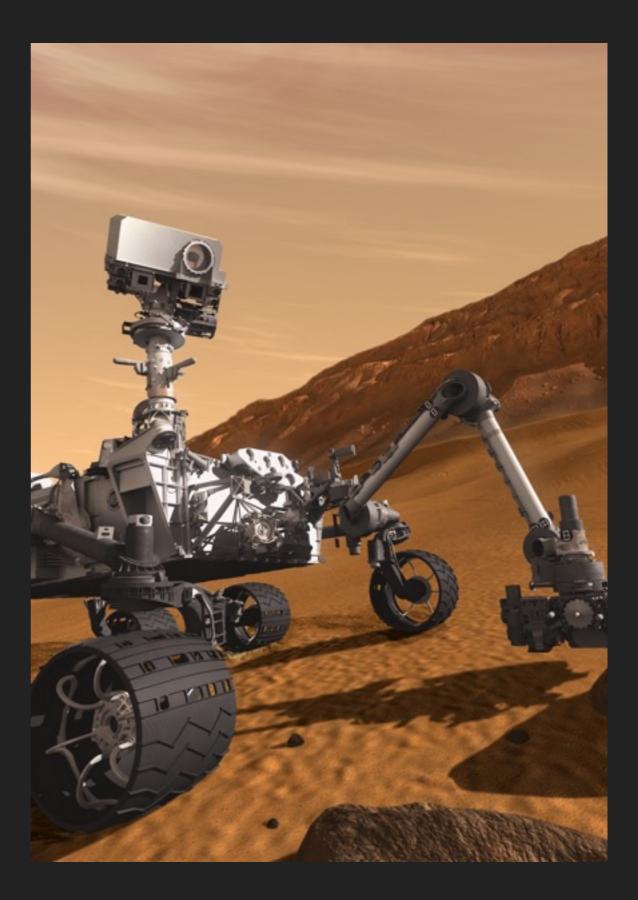
Where can robotics provide help in space?

One robot or several?

One environment or several?



- Help on the planet:
 - Planetary rovers



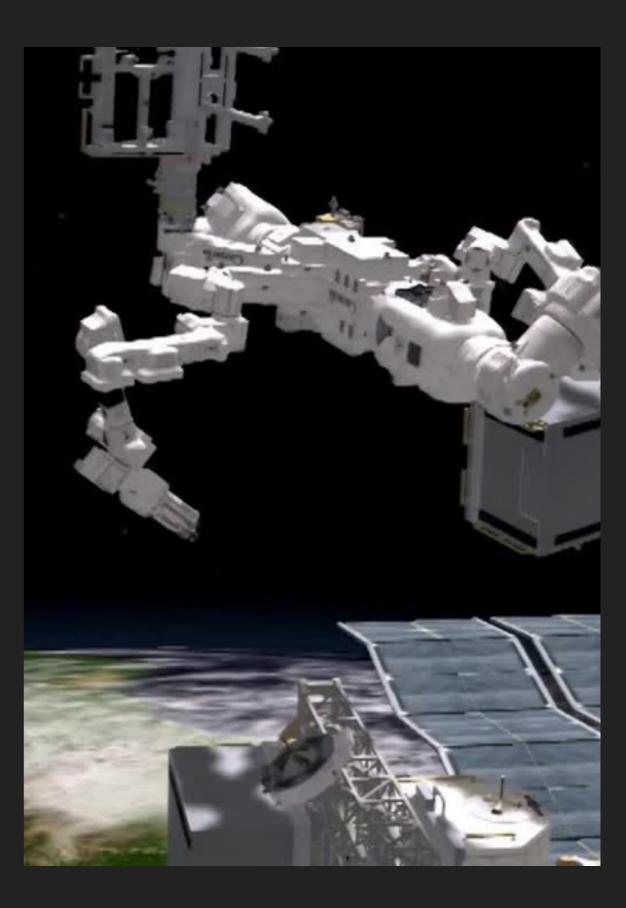


- Help on the planet:
 - Planetary rovers
 - Humanoids





- Help on the planet:
 - Planetary rovers
 - Humanoids
- Help on space:
 - Robotic arms





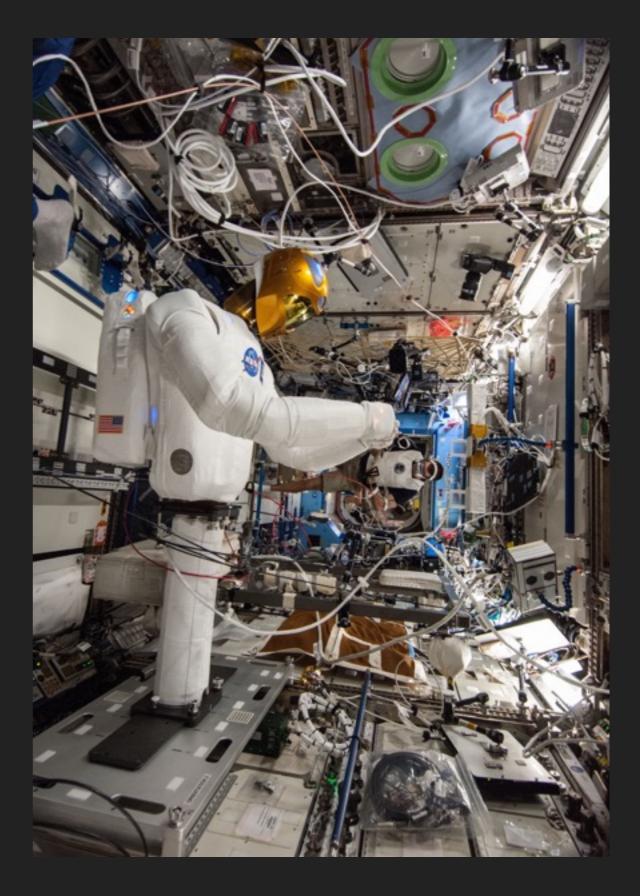
- Help on the planet:
 - Planetary rovers
 - Humanoids
- Help on space:
 - Robotic arms
 - Spheres





- Help on the planet:
 - Planetary rovers
 - Humanoids
- Help on space:
 - Robotic arms
 - Spheres
 - Assistants





TEST MUST REQUIRE (AT LEAST)

- Vision related tasks
- Dexterous tasks
- Mobility
- Navigation tasks
- Complex reasoning





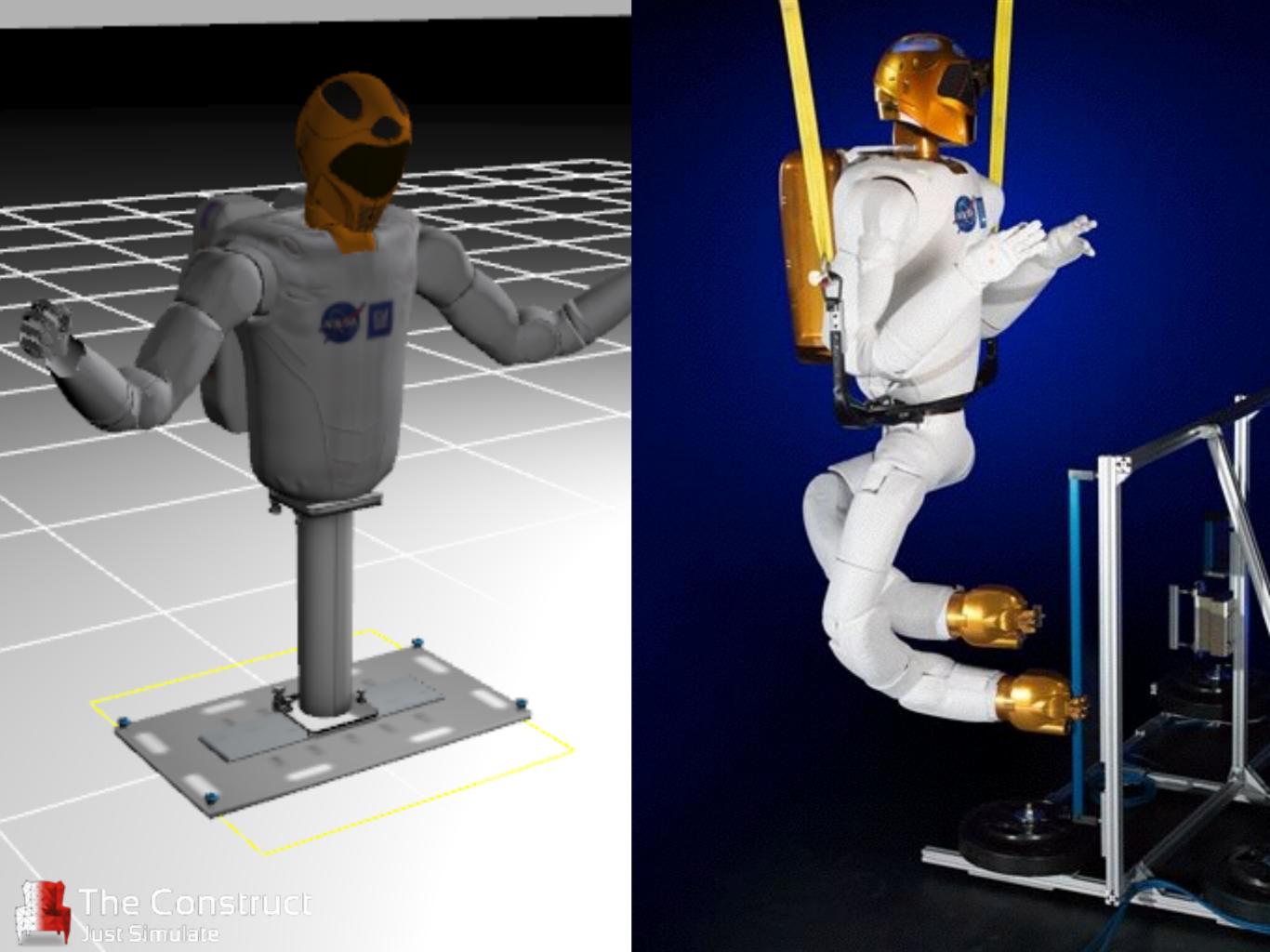
00

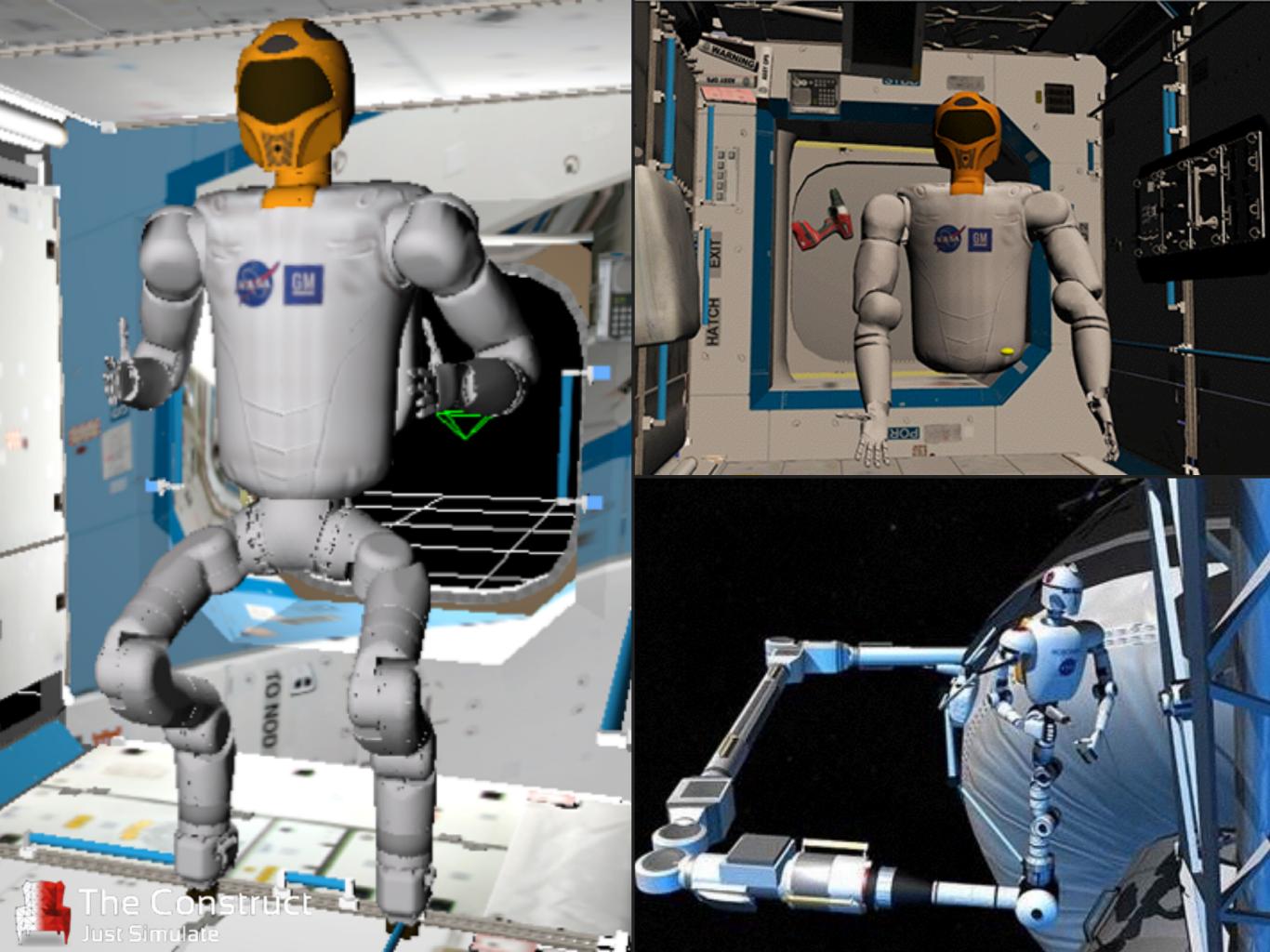
OVHD

DEC

ete

PORT





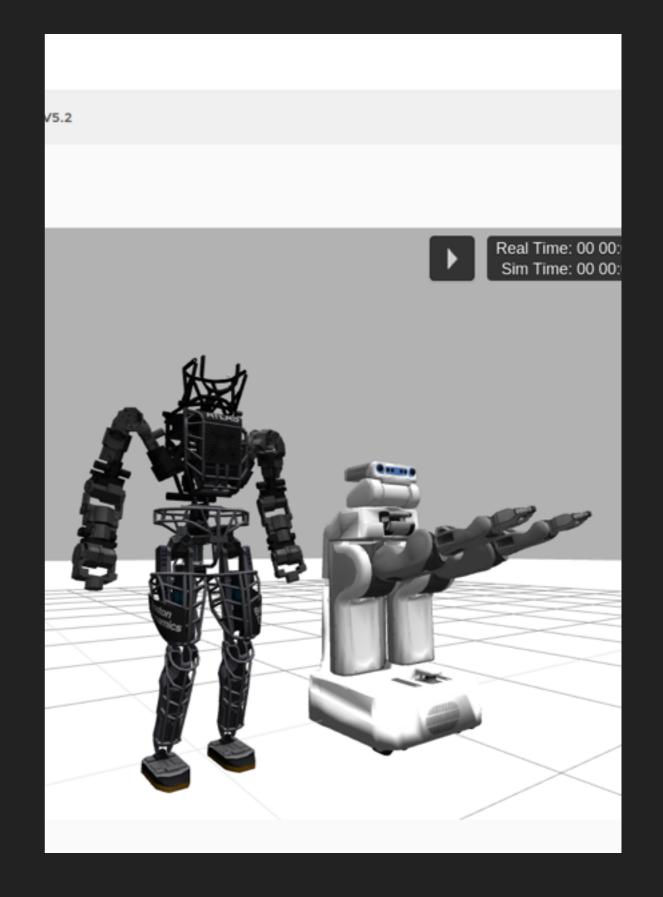


MUST USE A SIMULATOR

GAZEBO 7.0

HOW WILL IT WORK

- Competition simulated environment and robot with basic controllers provided by The Construct
- Training phase: use the environment to create your programs (online or on desktop)
- Contest phase: automatically handled (submit your controller up to 1 hour before the contest)





EASY TO EXECUTE

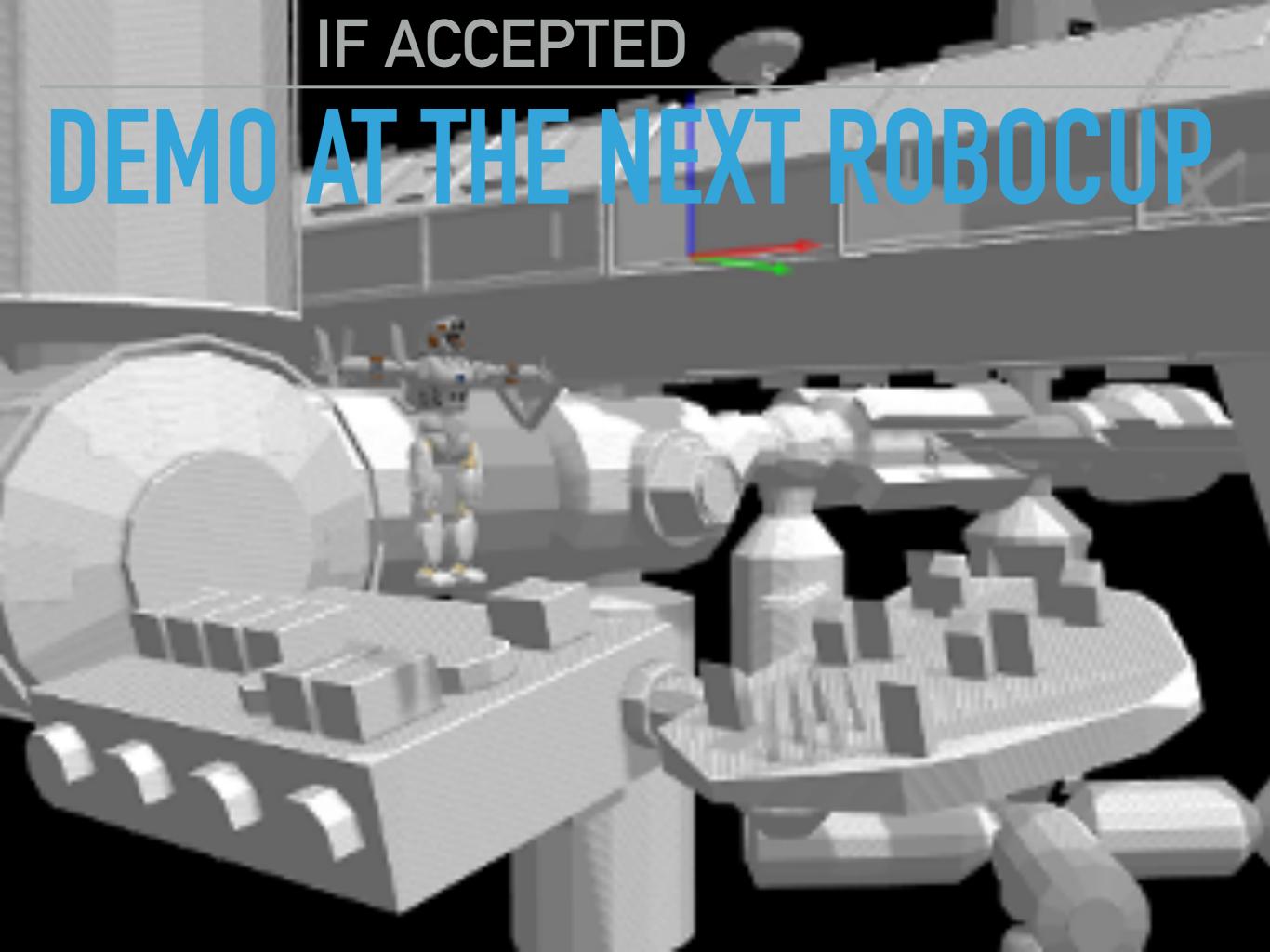
- Just requires:
 - A computer
 - A big screen
 - A cable connection to internet



DURING CONTEST BROADCASTED

You Topological Broadcast Yourself ™





QUESTIONS & COMMENTS & IDEAS



