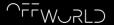
OFFWORLD INDUSTRIAL ROBOTIC WORKFORCE





AD ASTRA PER TERRAM ENABLING HUMAN EXPANSION OFF OUR HOME PLANET



- 1. Life insurance policy
- 2. Sustainable development on Earth
- 3. The new frontier



SETTLEMENT HAS ALWAYS BEEN DIFFICULT

- Limited supply chain
- Harsh environment
- Forced labor









SPACE NEEDS TAKERS FOR TOUGH JOBS

- build landing pads
- excavate underground habitats extract water ice and materials
- make drinkable water, breathable air and rocket propellant
- manufacture basic structures and solar cells
- produce electricity
- ...and eventually replicate themselves





FOUR DESIGN CONSTRAINTS

#1

No infrastructure

Assume we cannot build new facilities and other infrastructure, cannot access external power sources, etc.

IDEAL SOLUTION SPACE

#4

No consumables

Assume we cannot bring any consumables to the operations site or use locally sourced water in the process.

#2

No humans

Assume humans cannot be used to perform any of the industrial functions directly, only to oversee and enable the performance of robotic workforce.

#3

No footprint

Assume we cannot use fossil fuels to power robotic operations. Assume footprint at the site of operations must return to pre-existing format

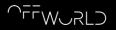


ENVIRONMENTAL IMPACT OF WORKING IN THE SOLAR SYSTEM

Acceptance		Gravity	Water	Dust	Radiation	Thermal Cycle	
	Genus Terra						
***	Genus Astra						
	Genus Luna						
	Genus Etiam						
	Genus Martialis						
Marie Control							

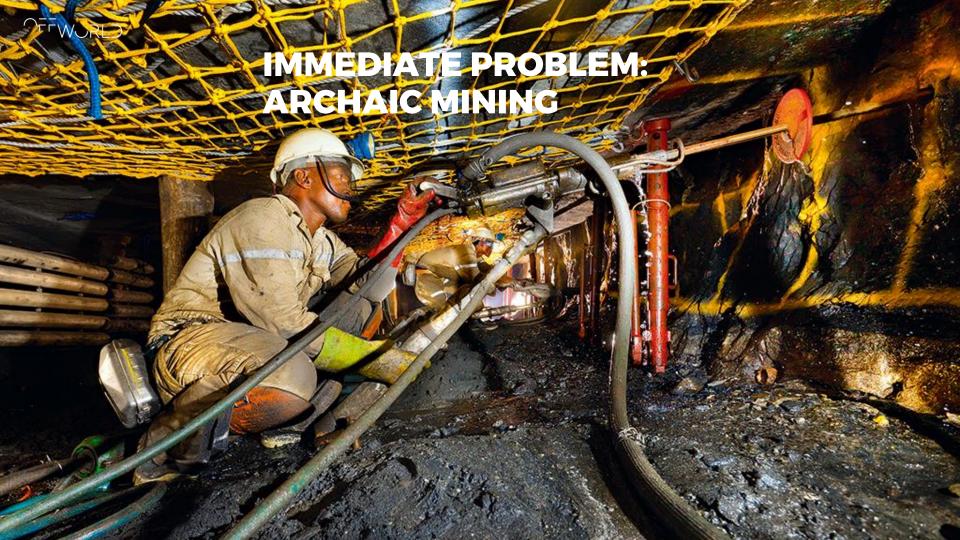
EARTH IS THE EXTREME ENVIRONMENT IN SOME CASES

High Medium



ROBOTIC WORKFORCE NEEDS FOR SOLAR SYSTEM EXPLORATION

	Outpost	Settlement	Colony
Survey			
Excavation/Mining			
Construction/Assembly			
Life Support			
Processing			
Human Support			
Manufacturing			

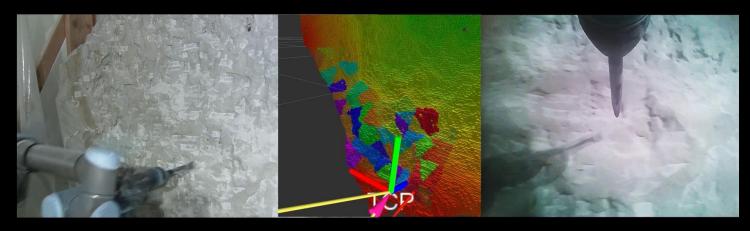


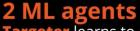




DEEP REINFORCEMENT LEARNING IN REAL

TRAINING TARGETER AGENT ON BEREA SANDSTONE





Targeter learns to pick the best spots **Chiseler** learns to choose the best angle of attack

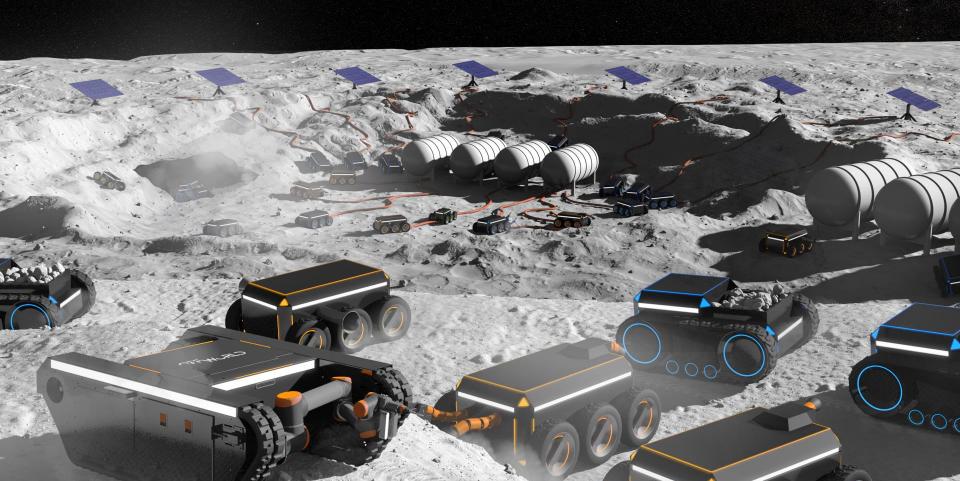


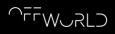


GENUS TERRA UNDERWAY



GENUS LUNA IS NEXT





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