# Astroverse, Crew Member Rescue - A Contingency Scenario

#### **Storyboard Title, Sequence, & Description**

The storyboard here describes a VR simulation that allows users to experience rescuing a fellow astronaut who may find themselves injured or fatigued whilst exploring outside the base camp, especially succeeding disasters such as powerful dust storms and mars quakes. An assessment of the astronaut's health and mission risk is carried out before sending out a dispatch team. The team uses rescue hardware to extract the astronaut, and administer first aid if in immediate need of medical attention. The astronaut is then transported back to the base camp for further recovery and rehabilitation.



## **Actions Executable in this Storyboard**

- 1. Nearby rovers redirected towards incapacitated crew member
- 2. Dispatch team sent for rescue live monitoring of crew member's vitals in transit
- 3. Rescue hardware set up for extraction adjusting angle, height lowered, length of rope, force required
- 4. First aid administered supplying astronaut with external oxygen supply, use of bandages, syringes and forceps
- 5. Astronaut transported back to base camp for further recovery







## **Assets Available in this Storyboard**

- Astronauts
- Exploration vehicles
- Base camp
- Rescue hardware ropes and pulleys
- Communication devices in vehicle radios



#### **Frame Descriptions**

- mars quake/dust storm
- incapacitated astronaut
- astronaut from a gorge
- ventilator as required
- further recovery and rehabilitation

• First aid - oxygen supply, bandages, syringes, tablets

1. Astronaut stuck in crater/ditch, injured or fatigued, post

2. Nearby rescue rover travelling to the location of the

3. Rescue team navigating a pulley system to extract

4. Astronaut connected to life support - oxygen supply/

5. Astronaut being transported back to the base camp for