Position : N × N

message : string

Rover
Δ vision
Δ Goal Reasoning Agent
Δ Hardware Interface
helper ID : N

goal ∉ obstacles
Helper ID ∈ {0, 1, 2}

used obstacle instead of vision obstacle due to V2 assumption.

Vision
current Position : Position
obstacles : ℙ Position.

current Position ∉ obstacles.

Goal Reasoning Agent (GRA)
failure : bool
At goal : bool
completed : message
failure Model Invoked : message
goal : Position

I Assume these are Msgs sent to ground station (?) {

Hardware Interface
command : message
recharge : bool
charging Complete : bool
battery Level : N
battery Level ∈ {0, 1, 2, 3, 4, 5}
charging Complete = True ⟺ battery Level = 5
command ∈ { "forward", "backward," "left", "right" }