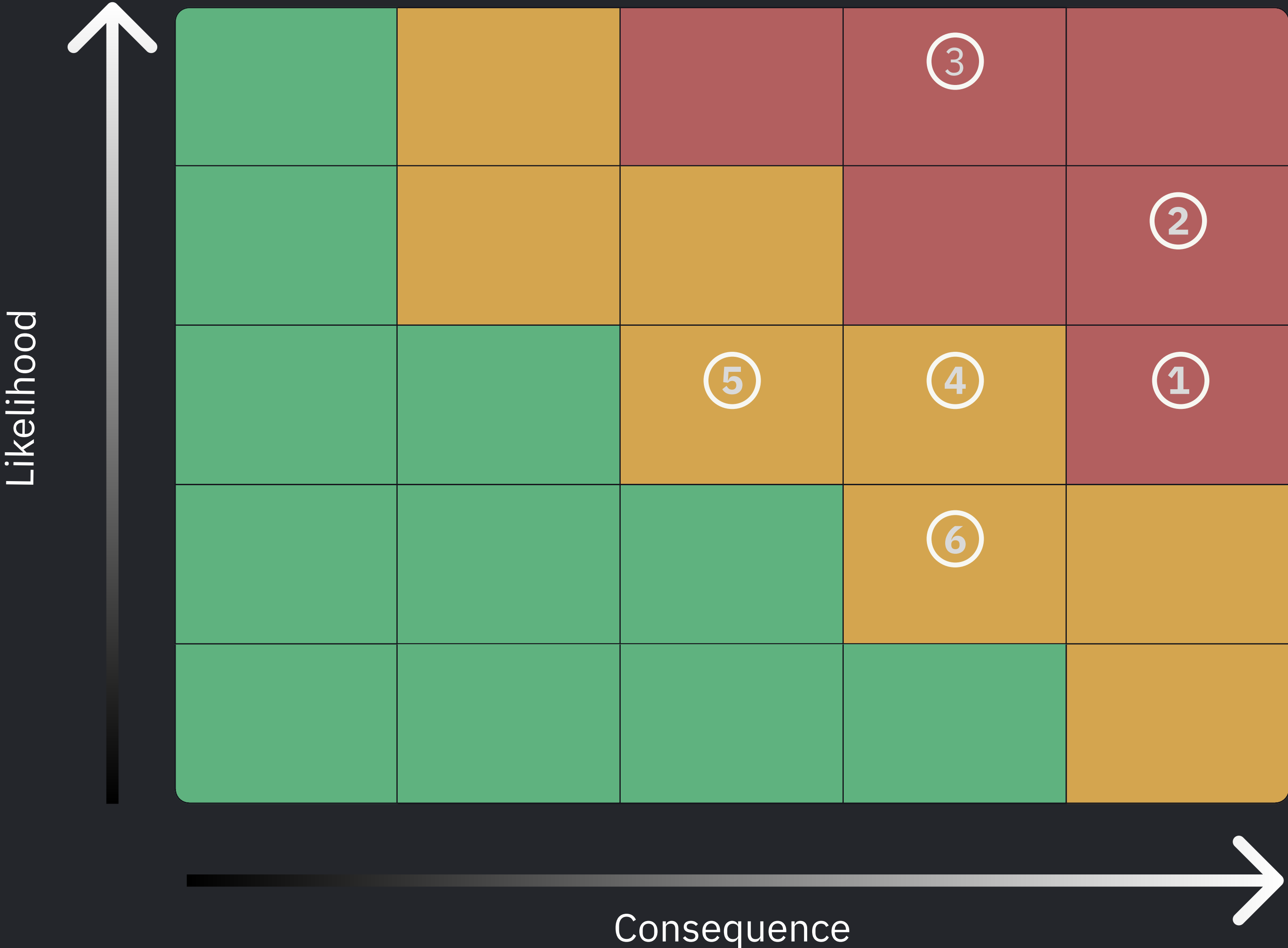


RISK IDENTIFICATION

- 1. Not able to perceive well through smoke
- 2. Unable to find testing facilities where smoke can be deployed
- 3. Drone crashes during testing and gets damaged
- 4. Software and driver incompatibility
- 5. Team members unavailable during sprints
- 6. Teammate gets burnout and needs to take a break



RISK MITIGATION

	Impact	Mitigation	Risk Change
R1. Problem perceiving through smoke	<ul style="list-style-type: none">• Not able to deliver on a fundamental requirement	<ul style="list-style-type: none">• Reduce smoke density• Other perceptual degradation (Darkness)	5 -> 2.5
R2. Testing Site	<ul style="list-style-type: none">• Prevents all real testing• Greatly modifies integration and testing subsystems	<ul style="list-style-type: none">• Find 2 facilities by December• Smoke in simulation, use budget to reserve testing facilities	4 -> 1.5
R3. Drone crash + damage	<ul style="list-style-type: none">• Prevents further testing• Might exceed budget	<ul style="list-style-type: none">• Industrial sponsor to provide drones• Custom drone which can be repaired	4 -> 2
R4. Software Incompatibility	<ul style="list-style-type: none">• Invalidate time estimation• Present blockers	<ul style="list-style-type: none">• Use virtualization• Accommodate more slack for interfacing	3 -> 1
R5. Teammates unavailable	<ul style="list-style-type: none">• Expert missing, blocked tasks• Backlog increases	<ul style="list-style-type: none">• Perform early knowledge transfer• Don't parallelize more than 4 tasks	2.5 -> 1.5
R6. Burnout	<ul style="list-style-type: none">• Exhausted team• Subpar work	<ul style="list-style-type: none">• Strictly adhere to hours per week• Cycle crunch phase across members	3.5 -> 1

RISK TRACKING

- 1. Not able to perceive well through smoke - Reduce Consequence
- 2. Unable to find test smoke at facility - Reduce Consequence and Likelihood
- 3. Drone crashes and gets damaged - Reduce Consequence and Likelihood
- 4. Software and Driver Incompatibility - Reduce Consequence and Likelihood
- 5. Team members unavailable during sprints - Reduce Consequence
- 6. Teammate gets burnout and needs a break - Reduce Consequence and Likelihood

