



# GO AERO

AERIAL EMERGENCY RESPONSE OPERATIONS



**GO AERO**

GENERAL EMERGENCY RESPONSE OPERATIONS

[GoAEROprize.com](http://GoAEROprize.com)

# GO AERO



**GoAERO is a three year global competition with over \$2 million in prizes to build emergency response flyers that will rescue people and perform critical response missions.**



**We are catalyzing the creation of safe, portable, robust, autonomy-enabled flyers that respond to challenges posed by natural disasters, climate change, medical emergencies and humanitarian crises.**

# The World Needs This



In the U.S. alone, nearly 4.5 million people live in "ambulance deserts,"  
In a medical crisis, people in these areas have to wait as long as 25  
minutes or more for an emergency medical crew to arrive.



In 2022, there were more than 380 natural disasters worldwide -  
affecting 185 million people and resulting in the loss of over 30,000  
lives.



Extreme weather and climate events in the past half-century have  
caused economic damage of about \$4.3 trillion.



Imagine a world where every first responder has life-saving aerial  
capability enabled by compact size and autonomous operations.

# Sponsors & Supporters

**GO AERO**



**NASA**

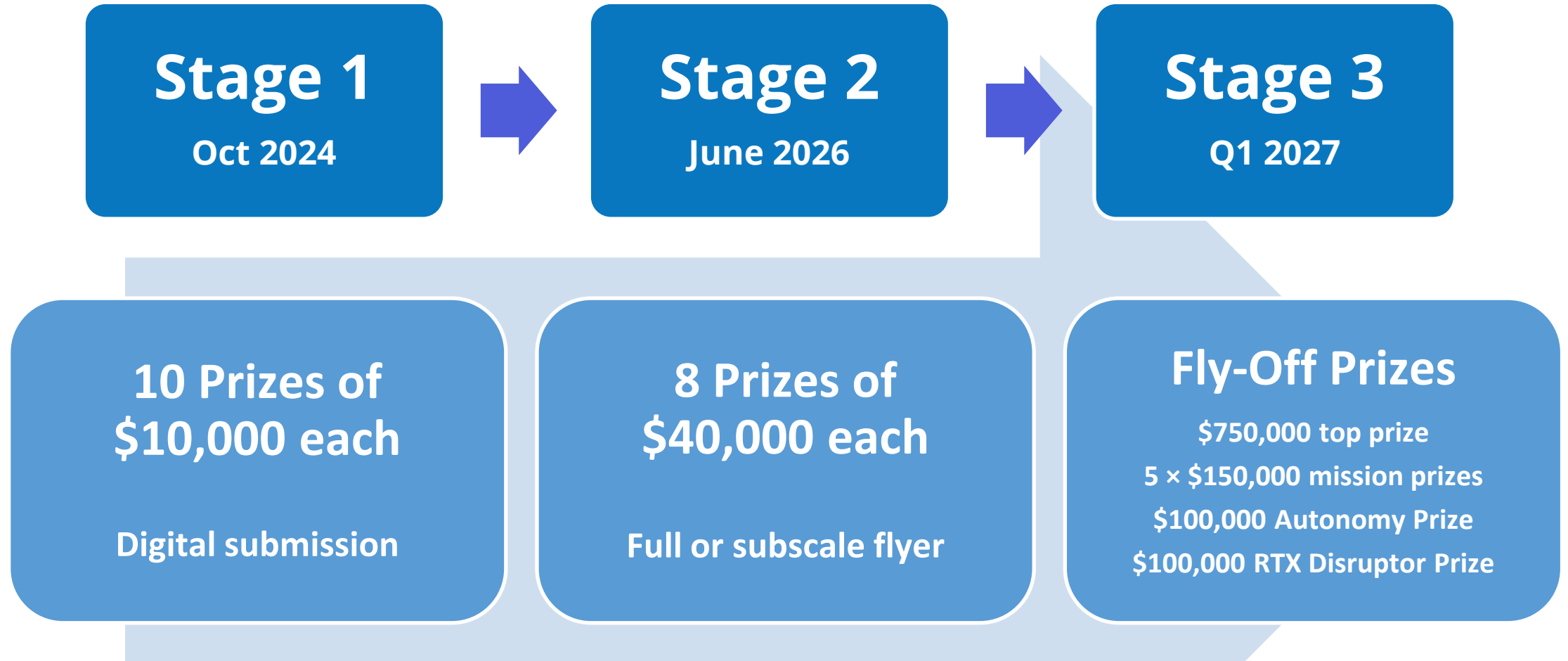


COLLINS AEROSPACE | PRATT & WHITNEY | RAYTHEON



# Our Organization Partners





*Teams do NOT need to win a previous stage to participate in the next stage.*





**Productivity**



**Adversity**



**Maneuvering**



**Precision**



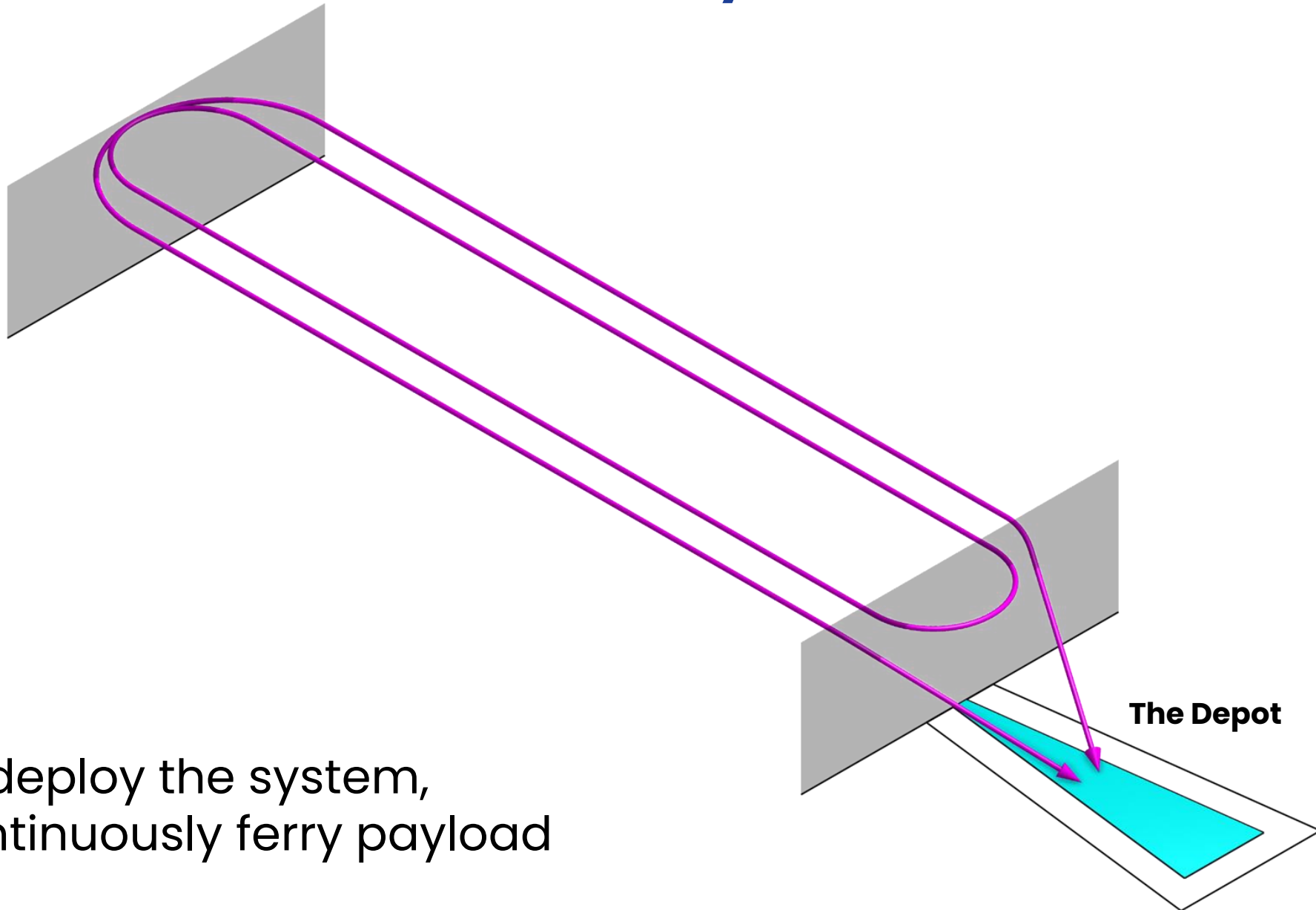
**Adaptation**



# Meet "Alex"



# 1. Productivity mission



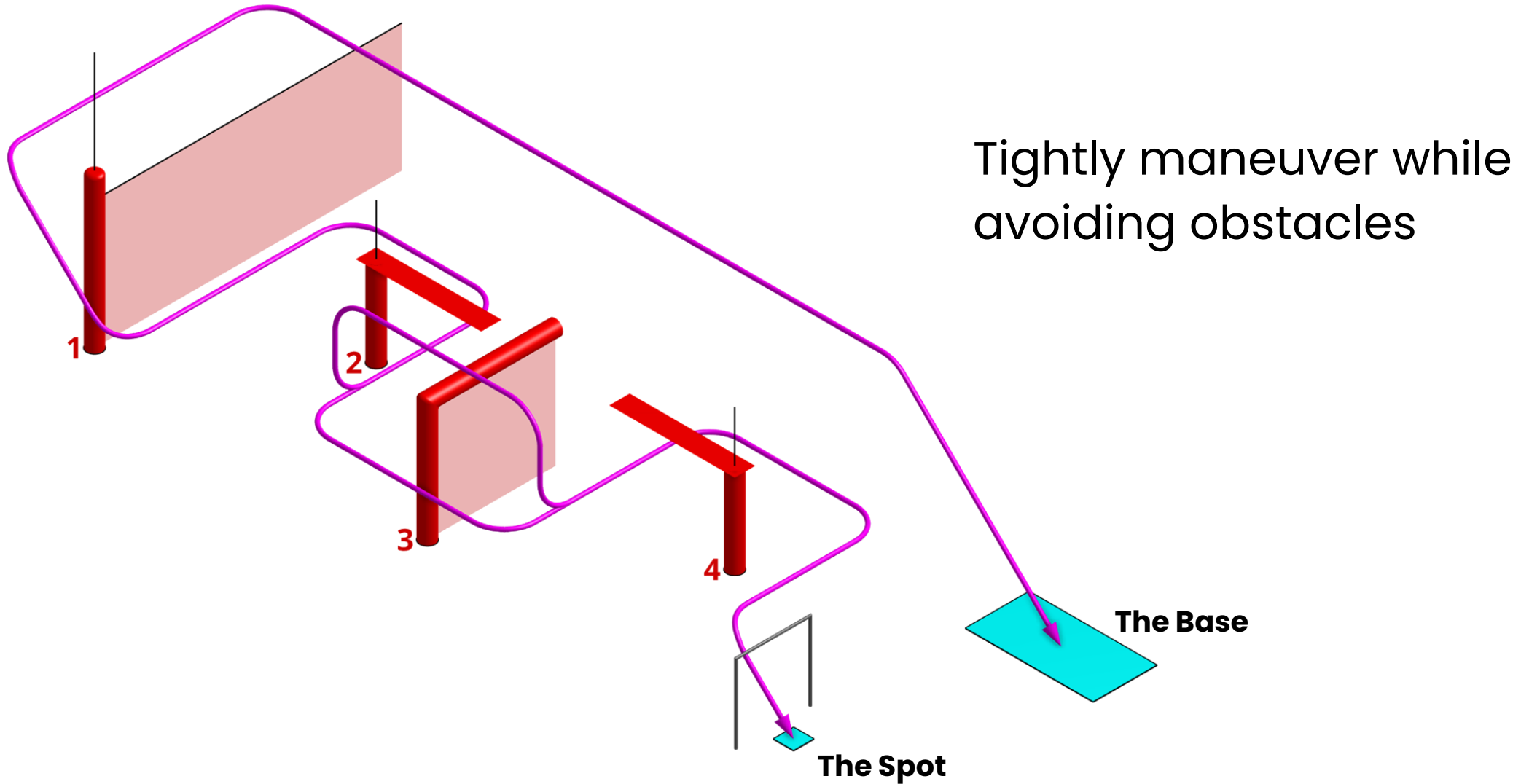
Quickly deploy the system,  
then continuously ferry payload

## 2. Adversity mission

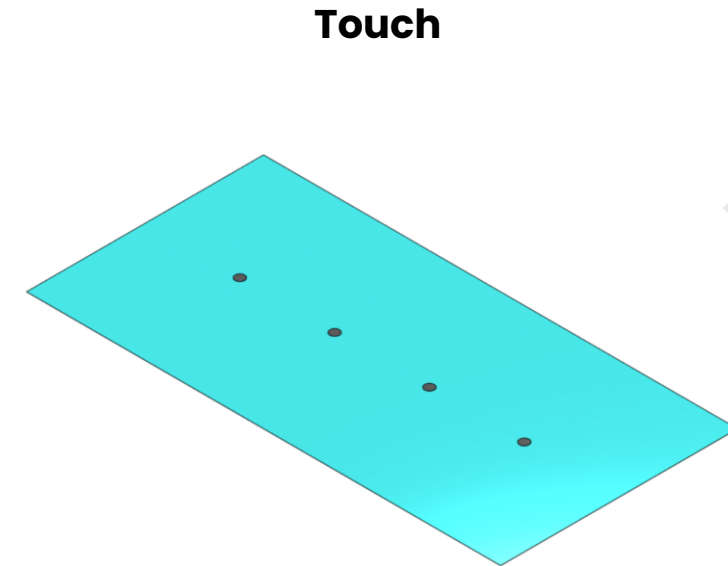
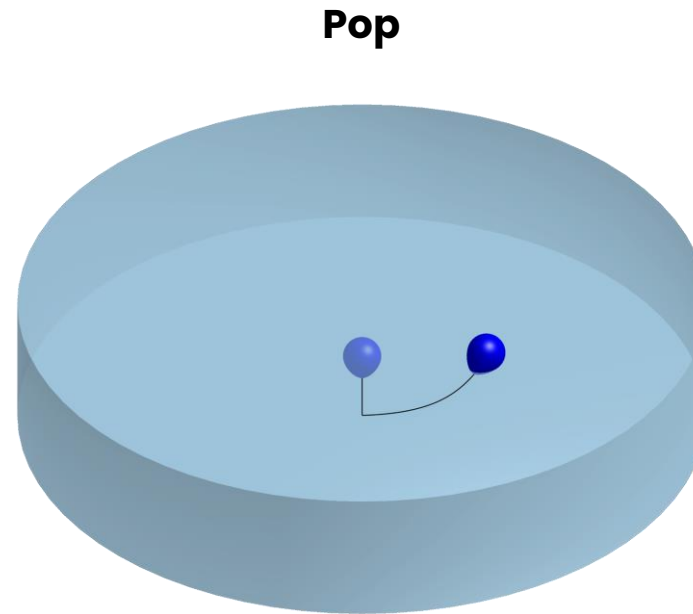
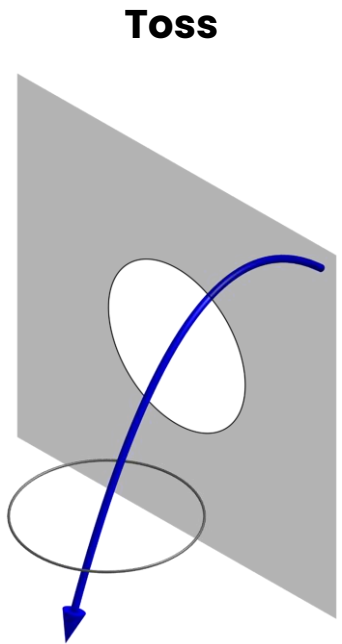
Take off and land in difficult conditions

<b>The Base</b>	25 ft wide by 50 ft long.
<b>The Pit</b>	12 ft x 12 ft loose dry sand.
<b>The Hill</b>	11 ft x 11 ft high-traction surface at a ~12 degree incline.
<b>The Flood</b>	~18 in deep pool with moderate rainfall.
<b>The Tornado</b>	15 ft x 15 ft with strong, non-uniform wind currents.

# 3. Maneuvering mission

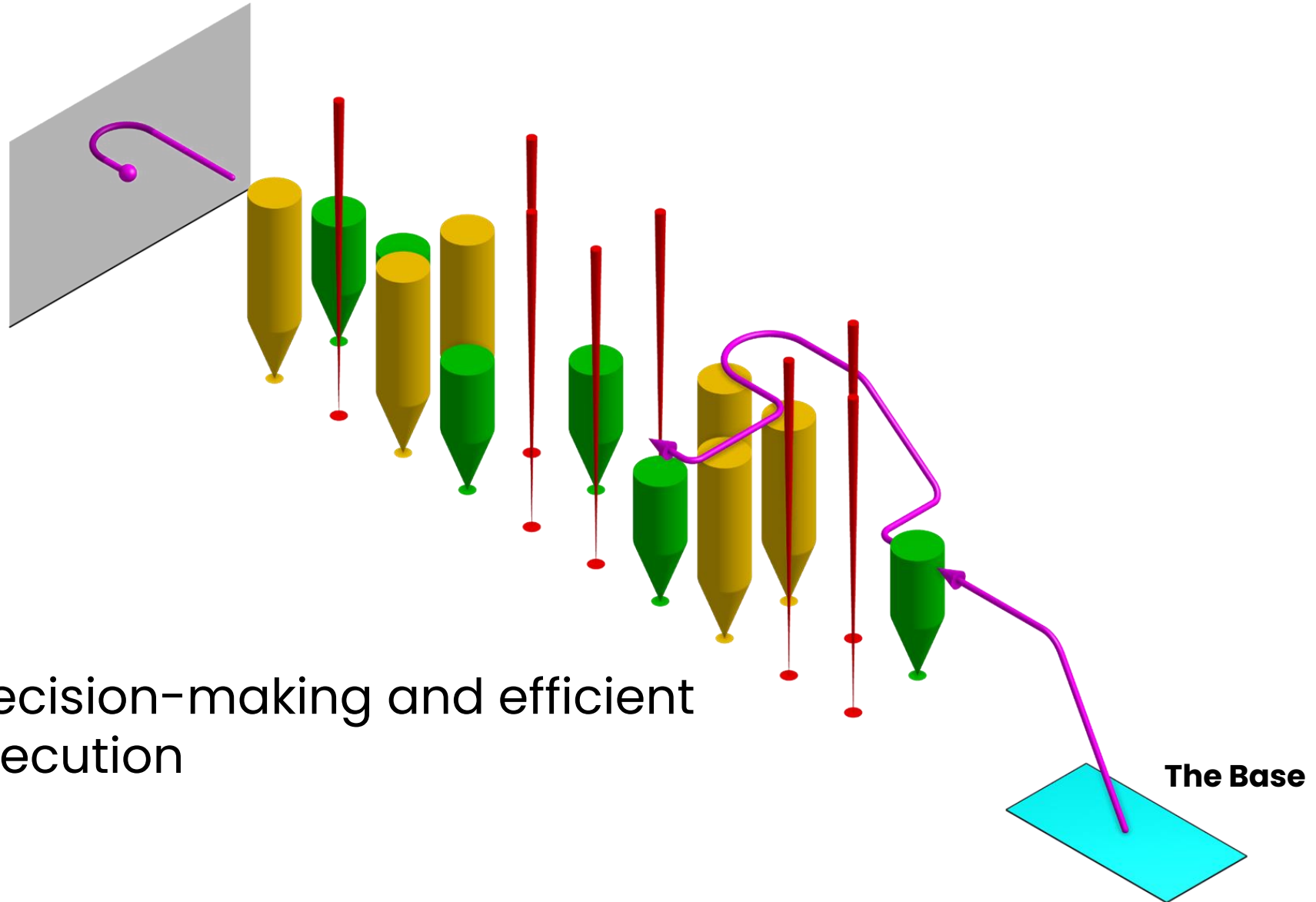


# 4. Precision mission








Fine tasks requiring skills beyond course flight path control

# 5. Adaptation mission



On-the-fly decision-making and efficient flight path execution

<p><b>Productivity</b></p> 	<p>Quickly deploy the system, then continuously ferry payload</p>	<p>Drive on site, quickly get the system ready to fly, then make multiple trips to move as much payload as possible.</p>
<p><b>Adversity</b></p> 	<p>Take off and land in difficult conditions</p>	<p>Land, ground pause, and take off at sandy, sloped, wet/rainy, and windy sites.</p>
<p><b>Maneuvering</b></p> 	<p>Tightly maneuver while avoiding obstacles</p>	<p>Run a slalom course featuring four obstacles and a spot landing, with and without payload in each direction.</p>
<p><b>Precision</b></p> 	<p>Fine tasks requiring skills beyond course flight path control</p>	<p>Toss a weight for lateral delivery. Push a button for precision hover. Pop balloons in a watery environment. Touch ground reference points.</p>
<p><b>Adaptation</b></p> 	<p>On-the-fly decision-making and efficient flight path execution</p>	<p>Assess a hitherto unknown environment, then plan and fly the best route through it.</p>



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How Can I  
Be  
Involved?

**FORM A TEAM**

GoAERO is accepting  
new teams.

**[www.herox.com/GoAERO](http://www.herox.com/GoAERO)**

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