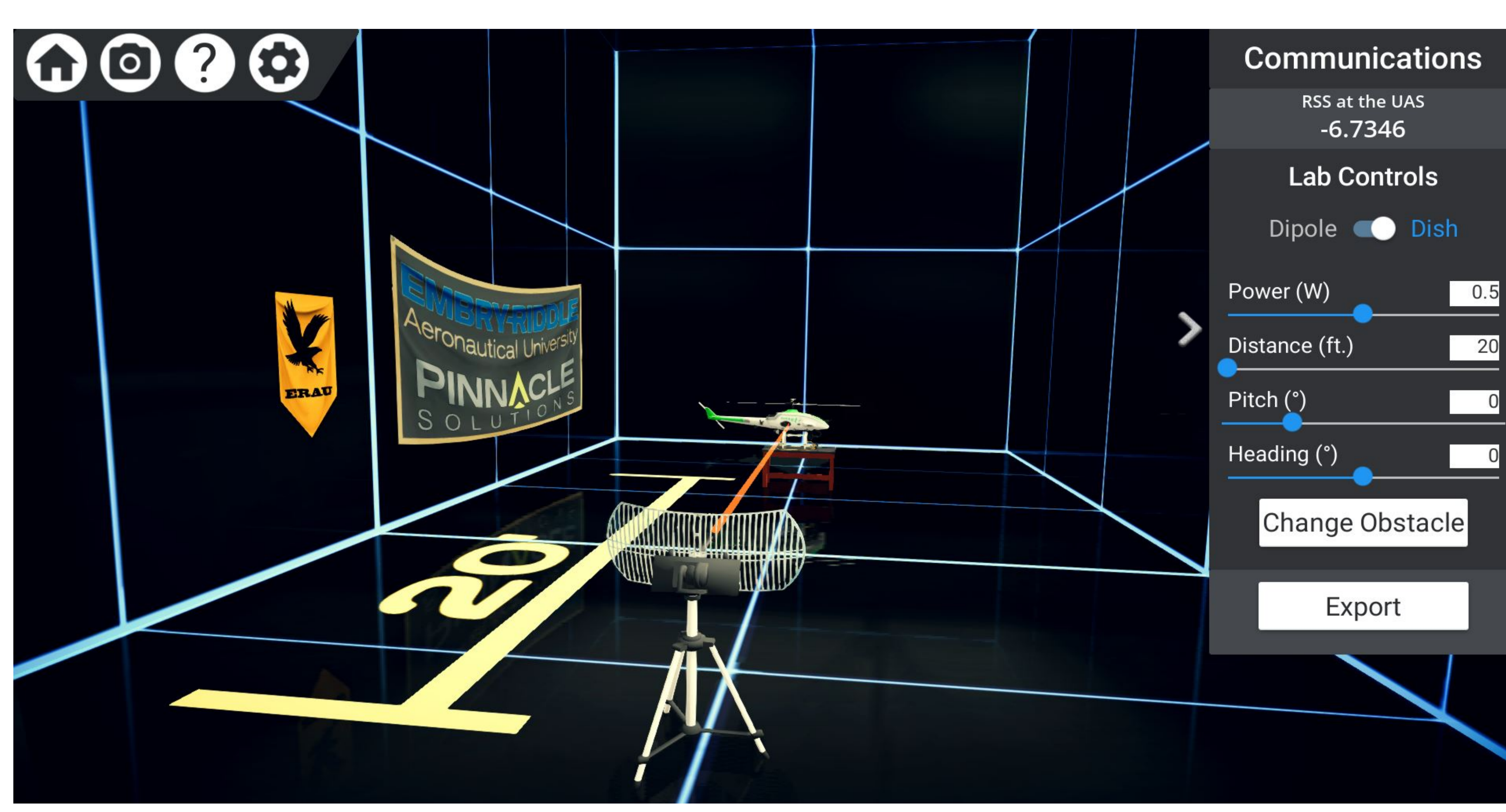


In-Depth Communication Lab

ERAU Virtual Hub

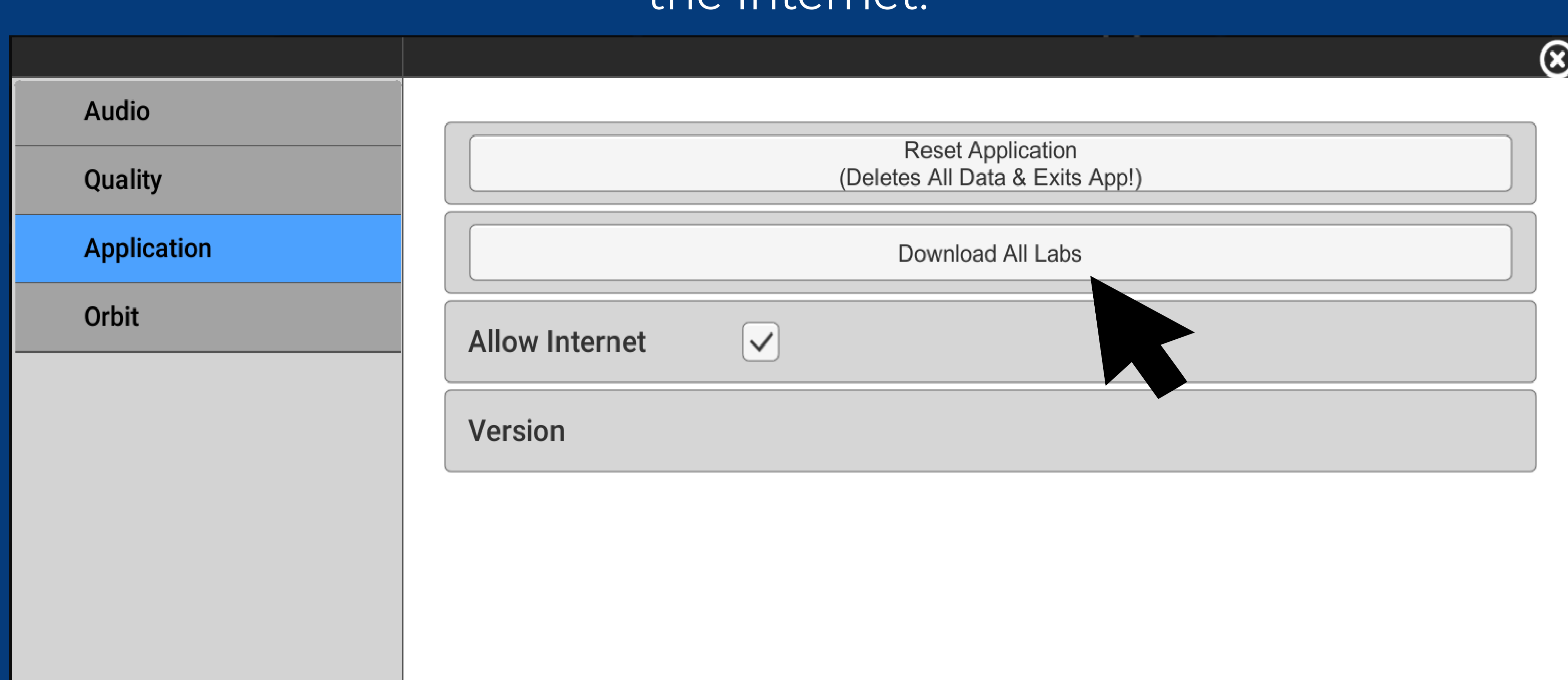


Recommended for all users

After downloading the lab, click the settings button at the top left corner.



Next under the application tab click the "Download All Labs" button. This will eliminate the requirement to be connected to the Internet.



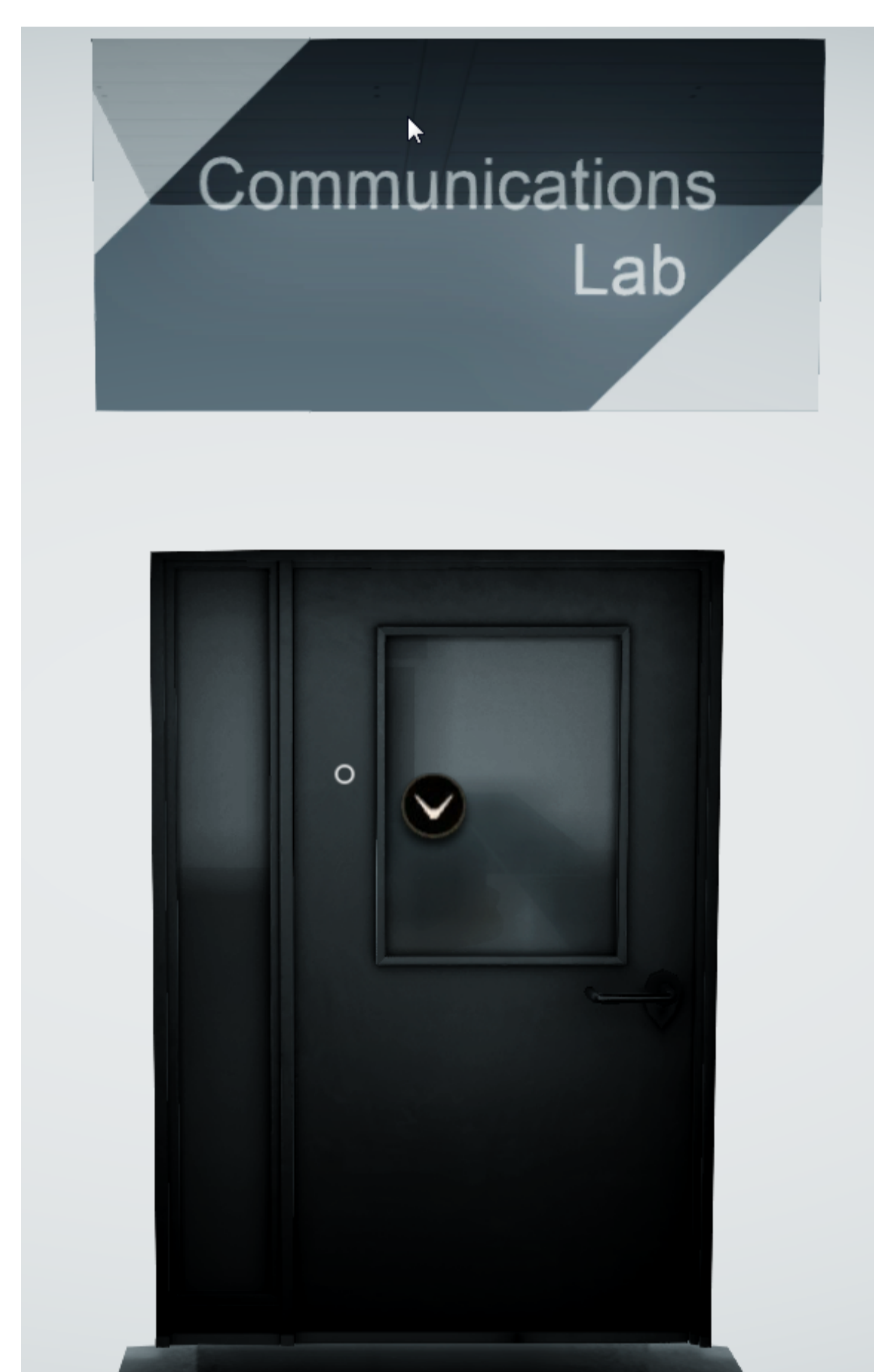
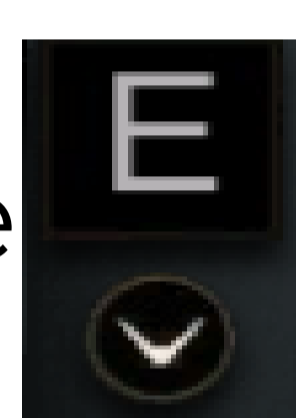
Entering the Communications Lab

ERAU Virtual Hub

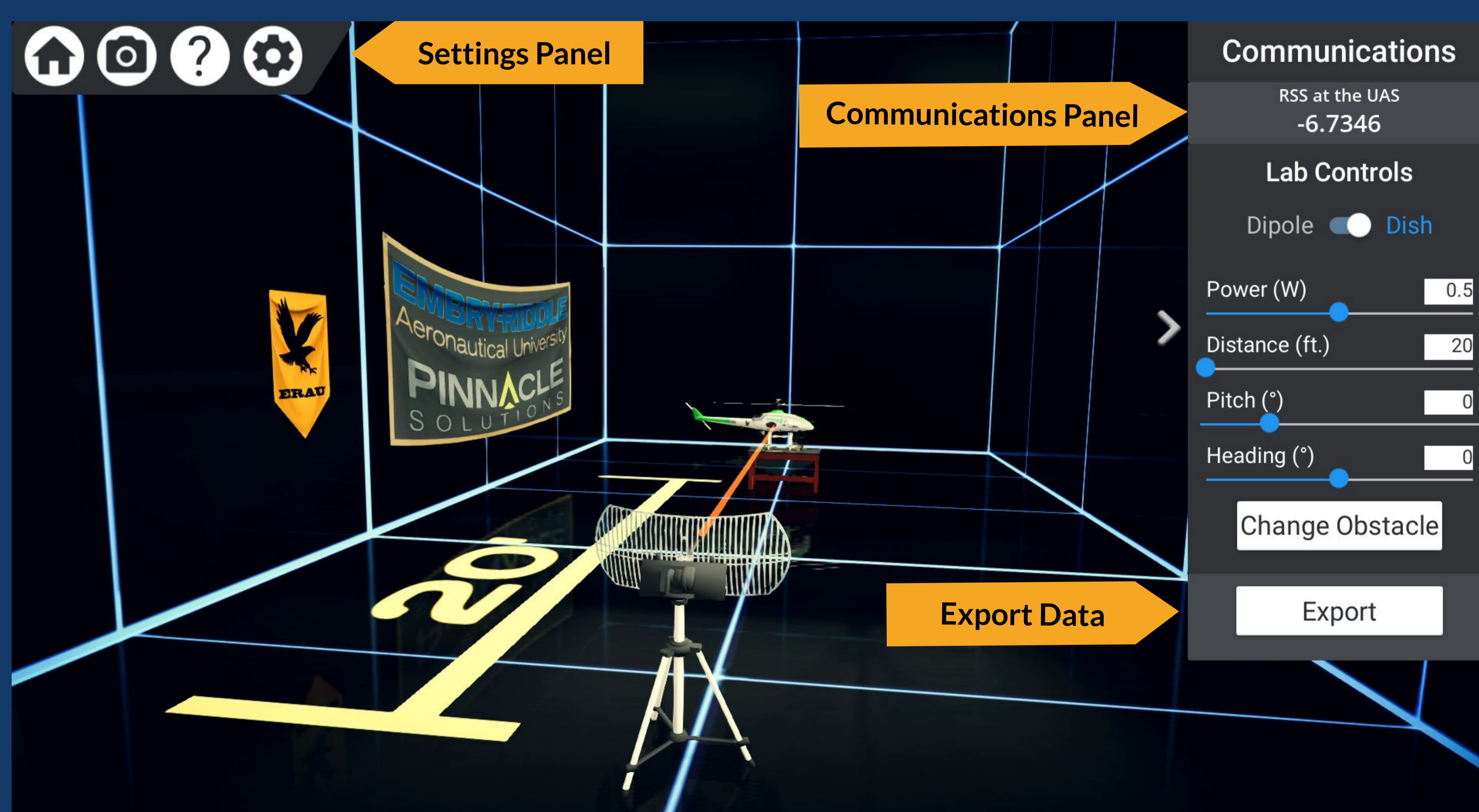
Welcome to the ERAU Virtual Hub

Once you step through the Communications Lab doors, you will be able to test two different antenna with a variety of settings with respect to power, distance, pitch, heading, and obstacle.

To enter any door, select the



Enter the Lab



When you reach the communications lab room, you will see several icons on the top left, communication controls on the top right side, and an export data button (to .csv file) on your bottom right side.

Communications Panel

On the right side of the screen, you will find the controls for the communications lab.

RSS at the UAS
-6.9585

Signal Strength: Always a negative number. The closer this number is to zero, the better the signal.

Dipole Dish

Antenna Type: Use this toggle to select between a Dipole or a Dish.

Power (W) 0.5

Distance (ft.) 20

Pitch (°) 0

Heading (°) 0

Antenna Settings: Use either the slider or text box to vary the settings of the antenna.

Change Obstacle

Change Obstacle: Use this button to select one of three obstacles - nothing, trees, or wall.

Export

Export: Use this button to export your data to a .csv file.

You Are
Now Ready to

