

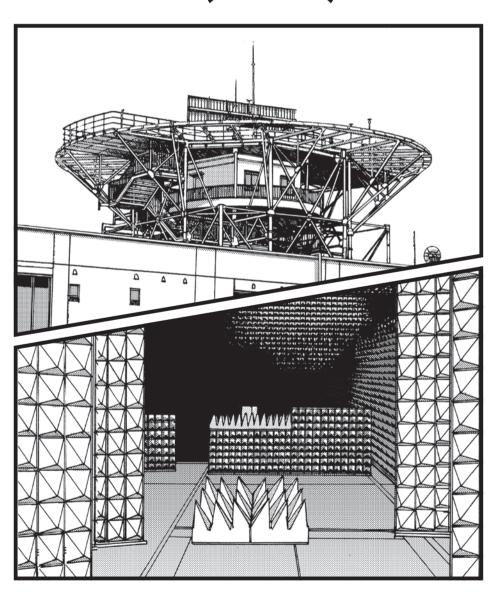
## Character Introduction Aoi Ozora(13) 1st grade junior high school student. She is a sound-minded person, and a little bit precocious. She Yuji Ozora doesn't really like airplanes. Aoi and Kaito's father. He once wished to be a pilot, but is now a regular businessman. Kaito Ozora(11) 5th grade elementary school student. He really likes vehicles and equipment. He wishes to be

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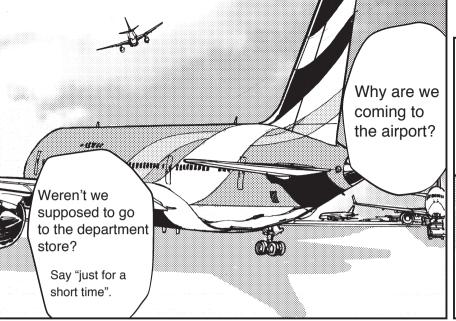
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The more you learn, the more you'll want to know!

# At the Electronic Navigation Research Institute (ENRI)











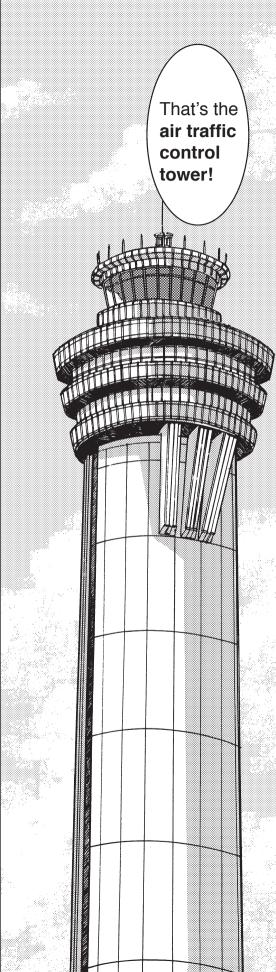


Let's go to

the store first, just you and me.

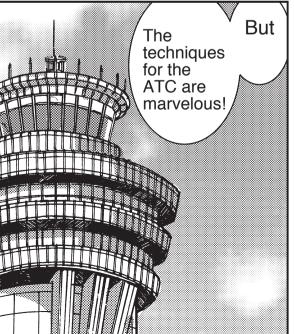












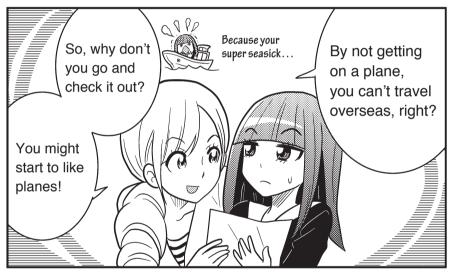
















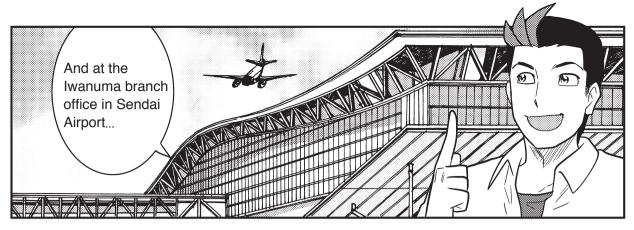




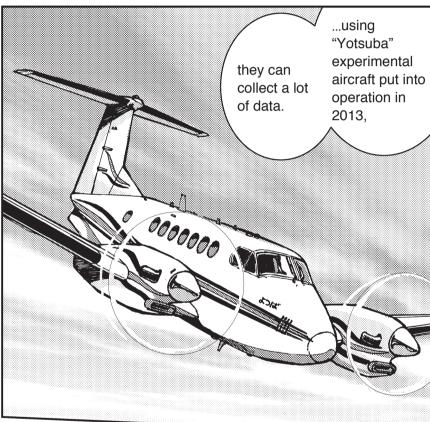
They're conducting experiments on advanced air traffic surveillance radar.

This research institute uses "Secondary Surveillance Radar (SSR)" mode S radar.

Yeah







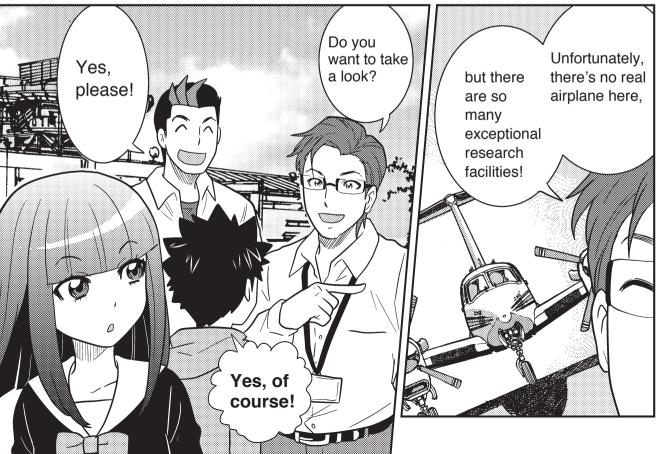


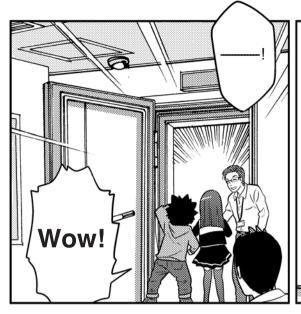








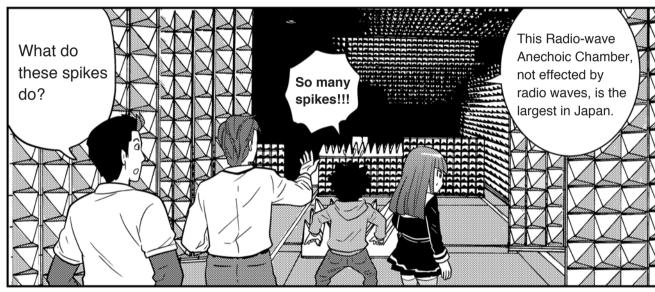


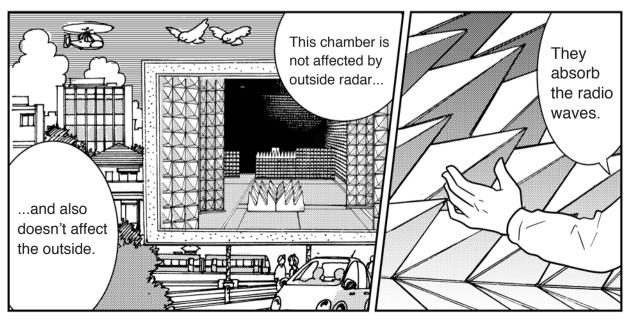


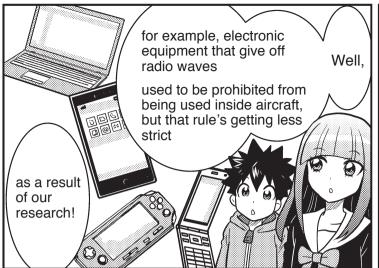
### 電子航法研 Electronic Navigation

8号棟 Building No,8 電波無響室 Radio Anechoic Cha







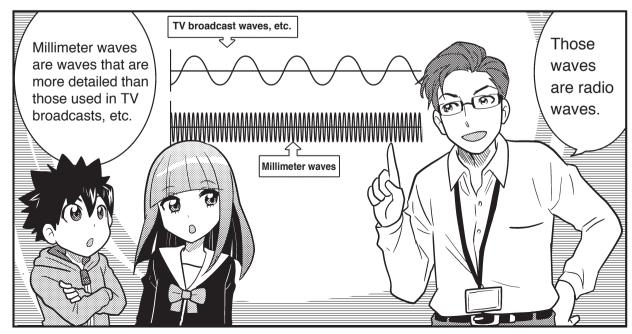


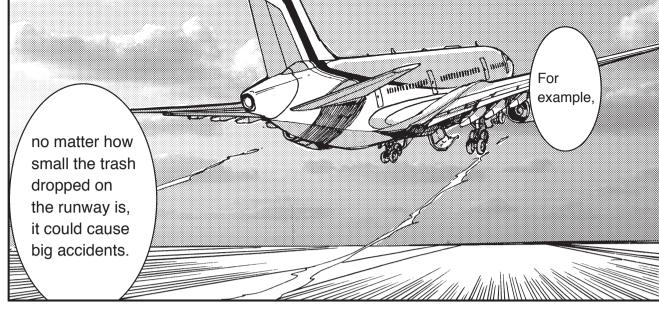


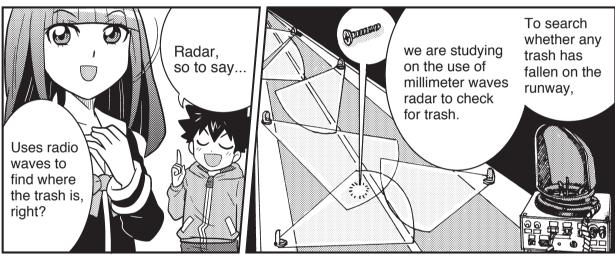








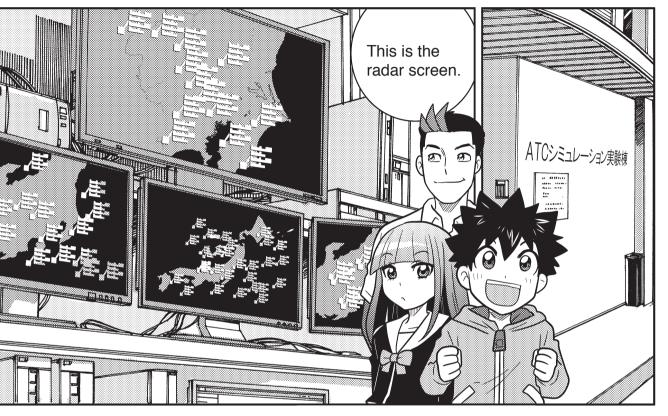




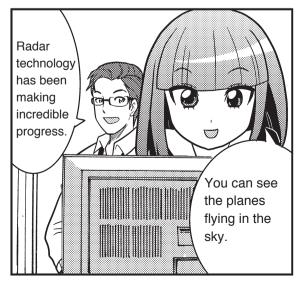


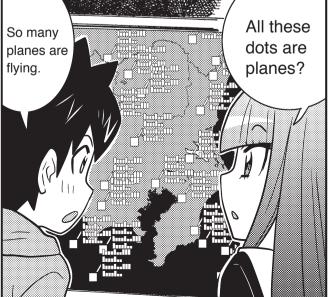


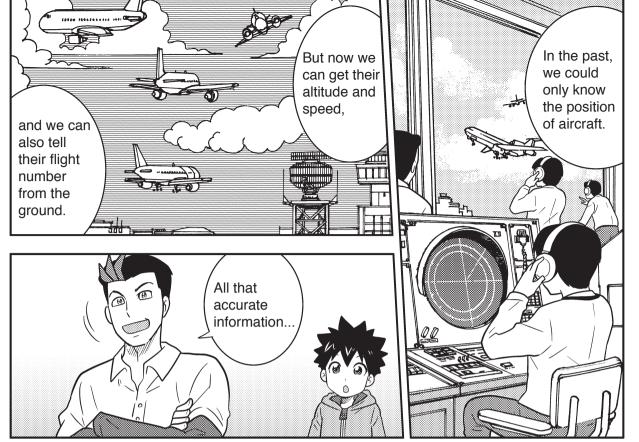


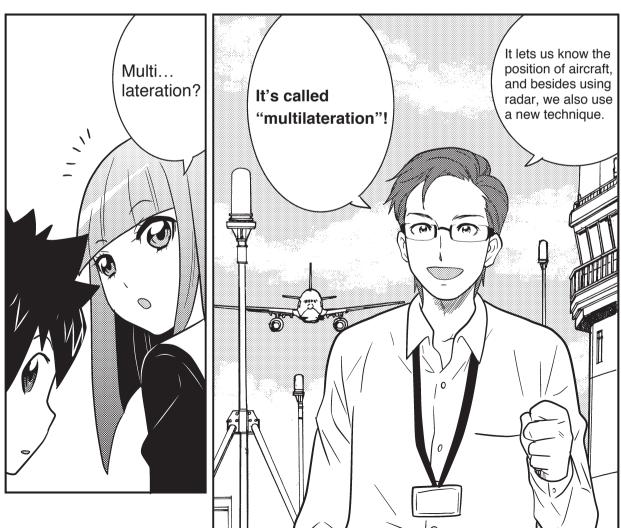




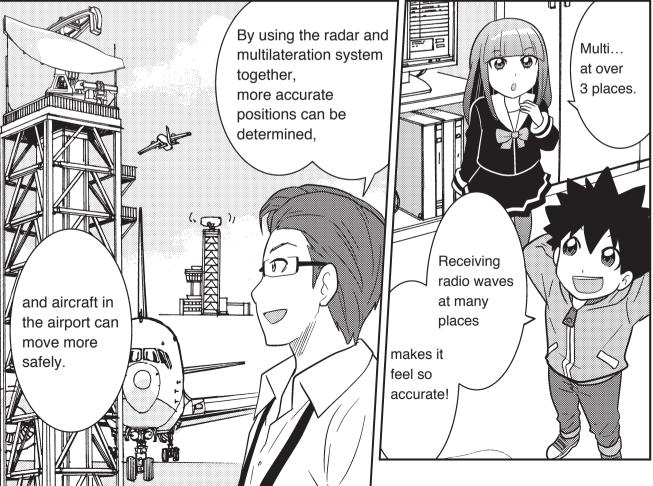






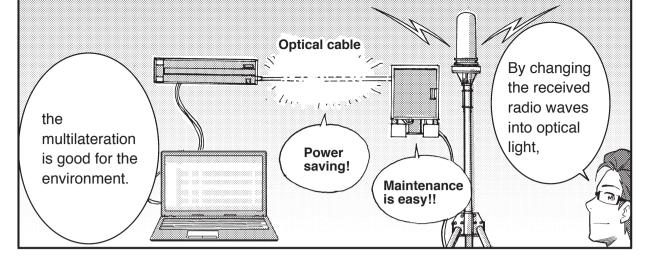


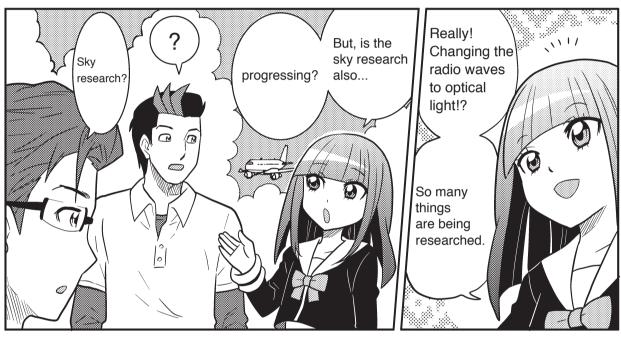






Octopus?



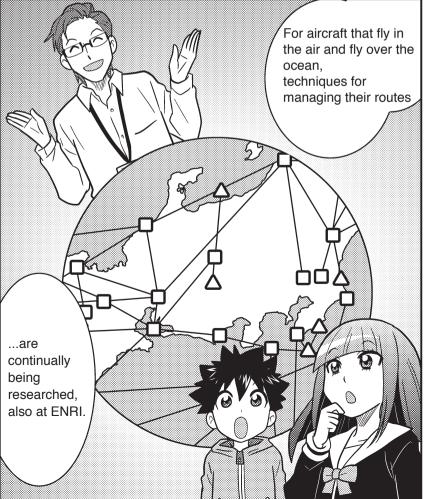


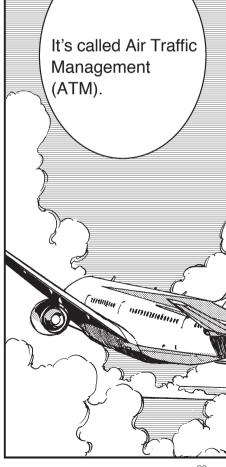


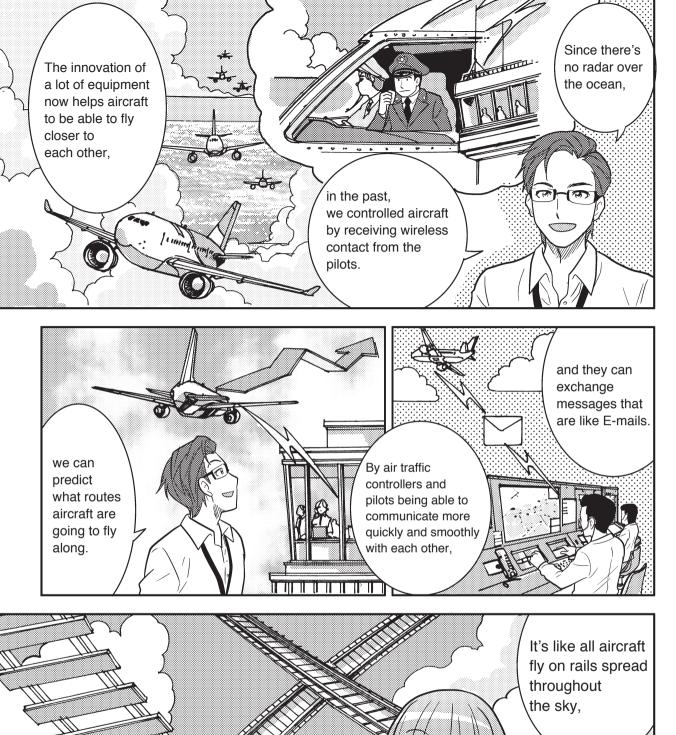


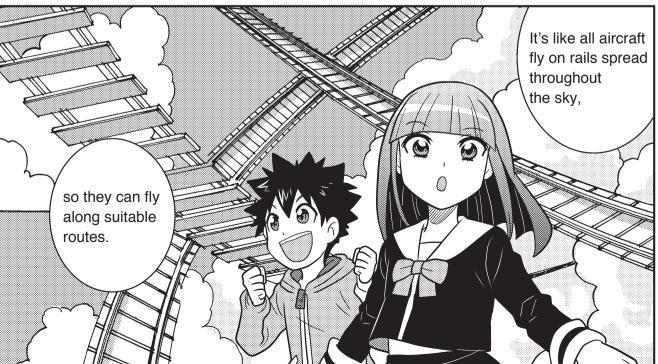






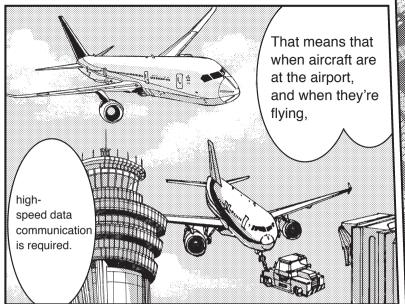






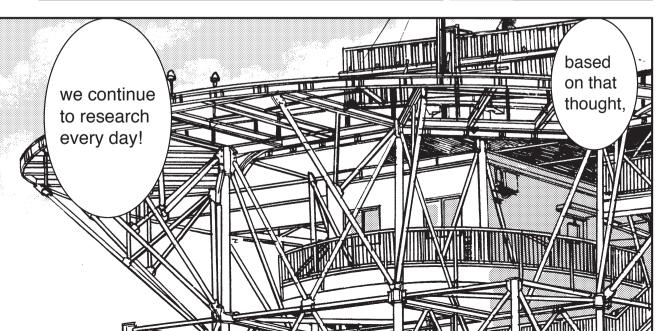




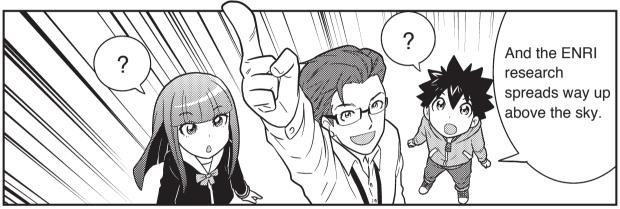


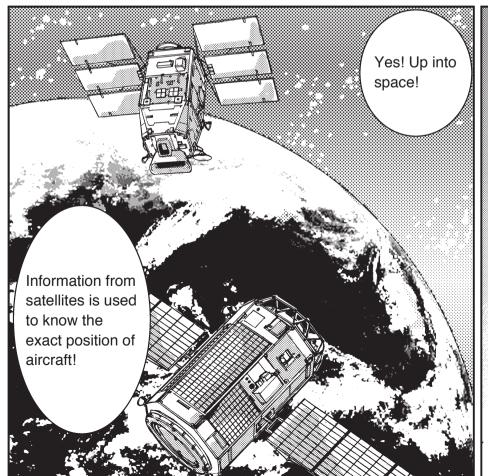




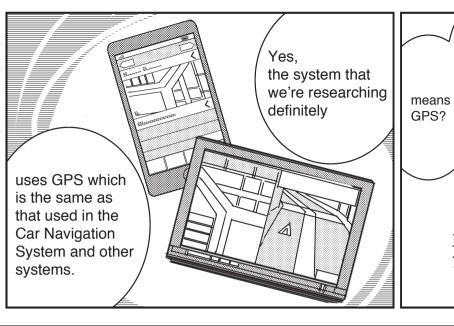


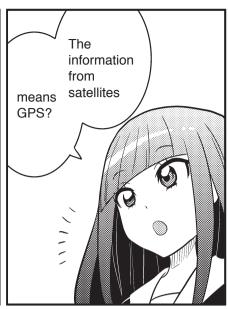


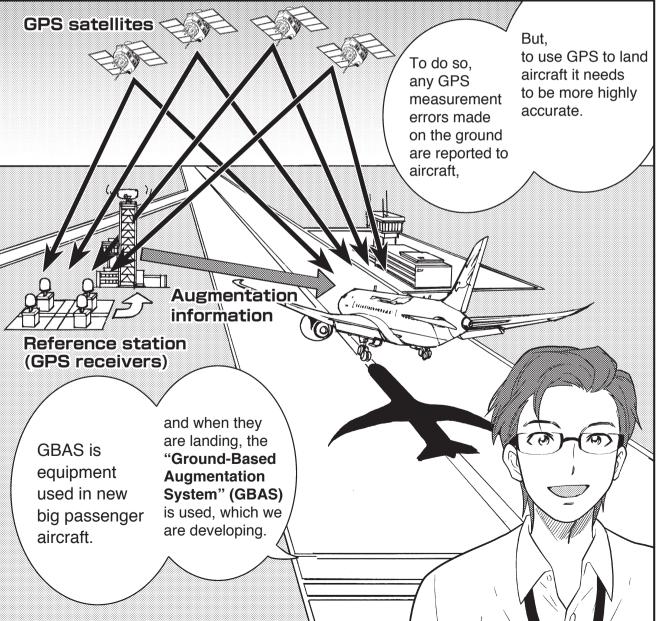


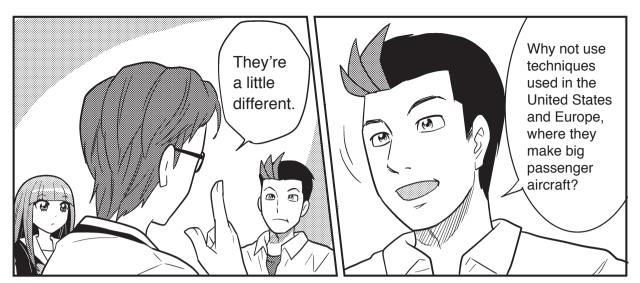


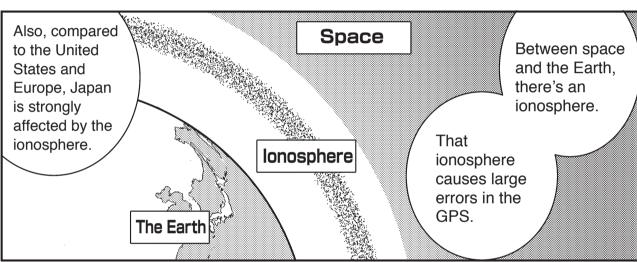


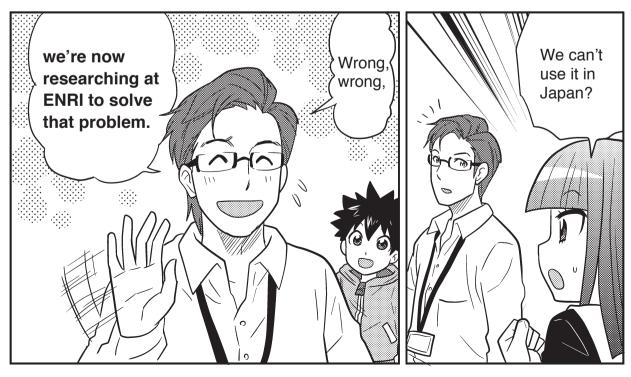


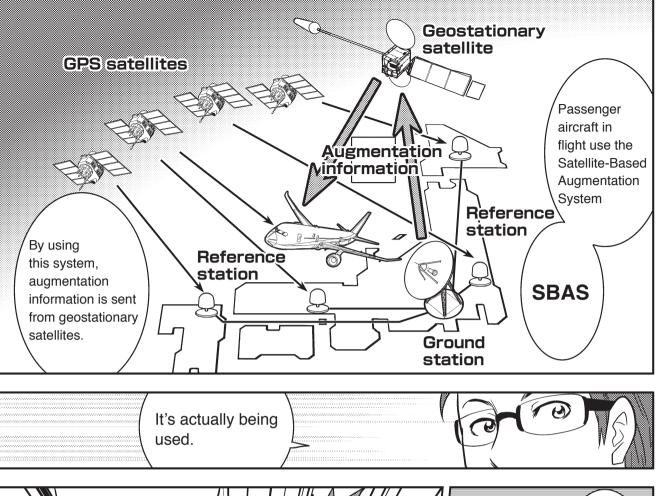




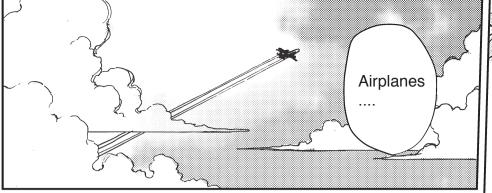




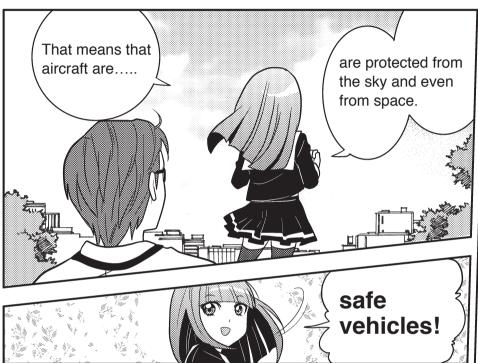
















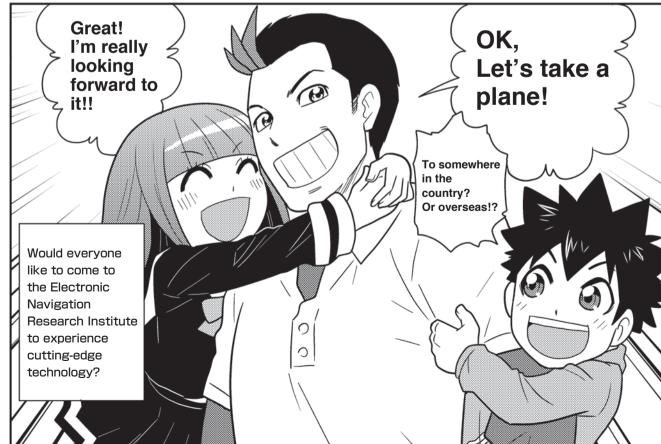












### Introduction of the Research Facilities

The Electronic Navigation Research Institute (ENRI) facilities are located at 2 places, one in Chofu City, Tokyo, which is the head facility, and one at the Iwanuma branch at Sendai Airport in Miyagi Prefecture. The head facility has an SSR mode S antenna which is also called the symbol of ENRI and the largest domestic radio-wave anechoic chamber, and the Iwanuma branch takes pride in having "Yotsuba" experimental aircraft which is exclusive to ENRI, and an SSR mode S antenna.

### "Yotsuba" Experimental Aircraft

ENRI is conducting experiments on actual aircraft. This aircraft is nicknamed "Yotsuba"

Call sign	JA35EN	
Aircraft type	King Air 350	
Flying altitude (capability)	over 10,000m	
Flying speed (capability)	over 500km per hour	
Aircraft length	14.2m	
Aircraft width	17.7m	
Aircraft height	4.4m	
weight when fully fueled	6.8t	





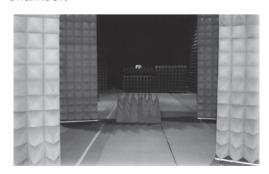
### **SSR Mode S Antennas**

These new antennas are used to determine the position of flying aircraft. ENRI has 1 antenna each in both Tokyo (Chofu City) and in Miyagi Prefecture (Iwanuma branch). Only ENRI is equipped with these antennas in research institutes in Japan.



### Radio-wave Anechoic Chamber

The room has spiked walls that absorb radio-waves. Radio-waves don't enter the room from outside, and radio-waves produced inside the room disappear into the walls, so experiments can be carried out in this ideal environment. It's the largest domestic radio-wave anechoic chamber.



The more you learn, the more you'll want to know!

#### At the Electronic Navigation Research Institute (ENRI)

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