# ARLISS2014

Tokyo University of Science Kimura Laboratory
So-Seki

WE INTERP

## Agenda

- 1.Member
- 2. Mission
- 3. About CanSat
- 4.Results



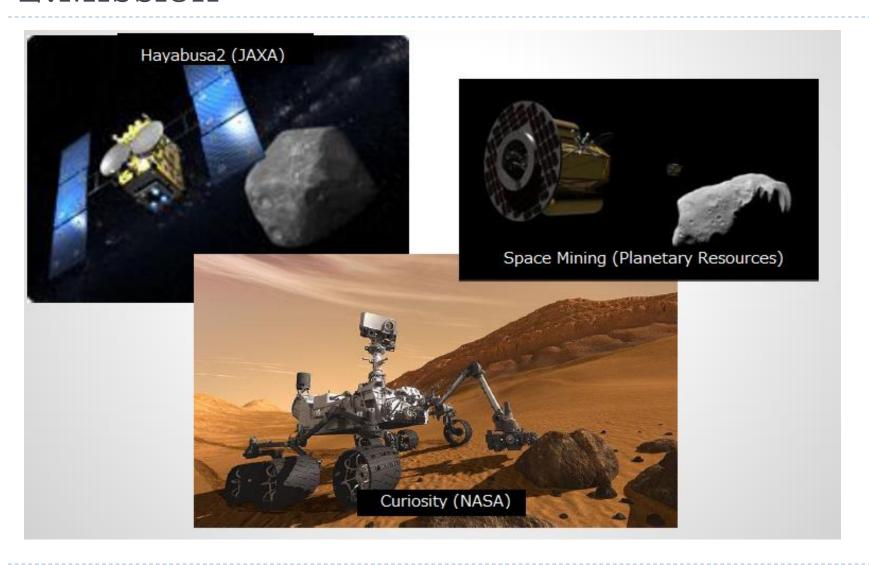
### 1.Member

- Nakamura
- Doi
- Hosaka
- K.Sato
- Narita
- Shiraishi
- Tanaka
- ▶ T.Sato
- Ueno



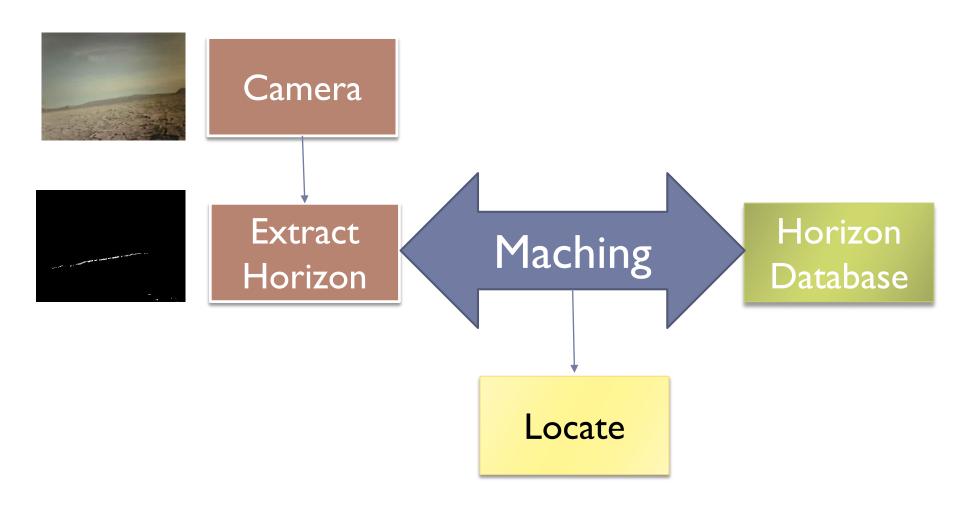


#### 2. Mission



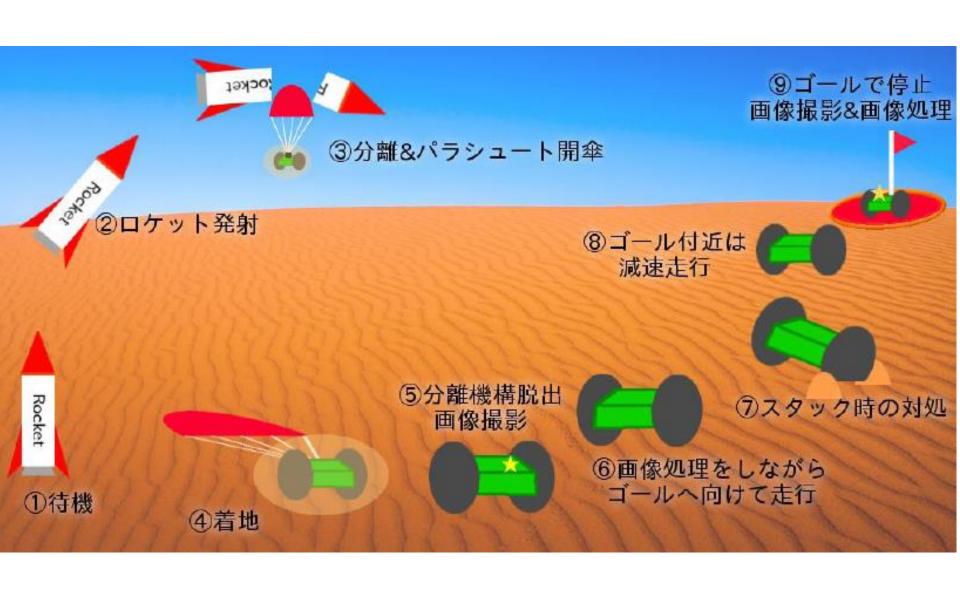


#### 2. Mission

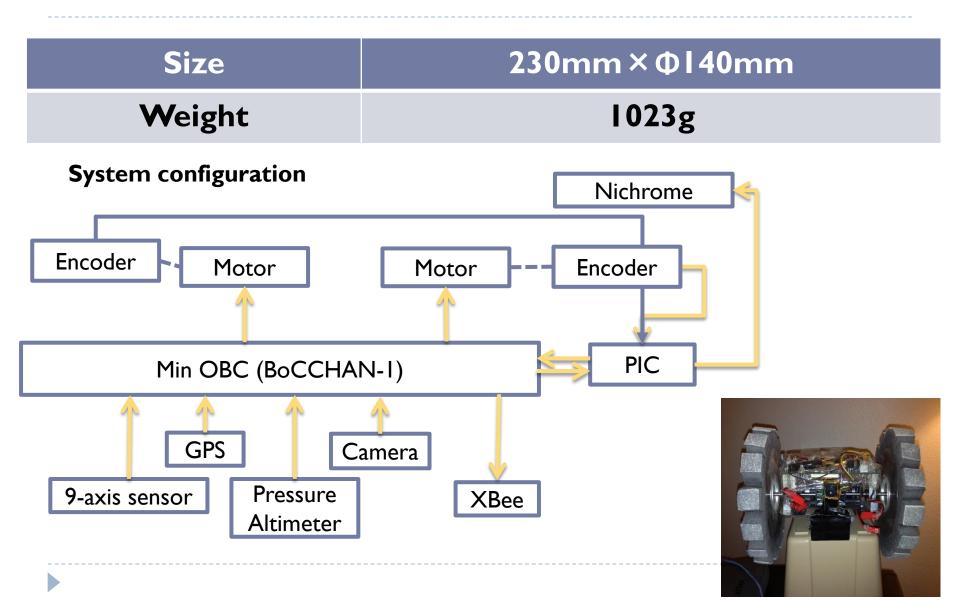


### 2. Mission

	Run Back	Image Processing
Minimum Success(30%)	Make a good landing without any trouble.	Take a picture.
Middle Success(70%)	Separate from parachute and run more than 3km to the goal.	Find the edge and extract prospective horizon from the picture.
Full Success(100%)	Reach the goal, obeying regulations of ARLISS.	Extract only horizon from the picture which taken at landing place or the goal.
Advanced Success(120%)	-	Extract only horizon from all of the taken pictures.



### 3. About CanSat



#### 3. About CanSat

- To Avoid Stack
  - → Recognize stacking and move characteristic.

(Video)

- ▶ To Avoid Runnning over Parachute
  - → Additional Image Processing program.

Recognizing parachute with Hue image.



### 4.Results (Run Back)

- ~First Try~
- **>**3603m

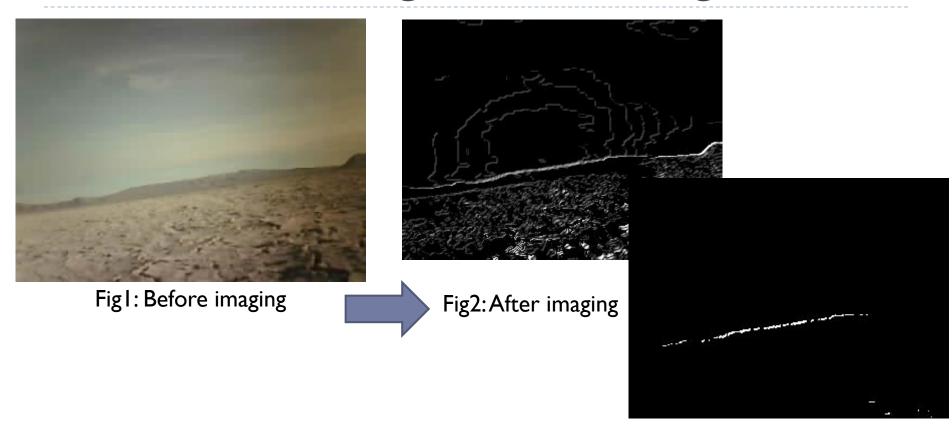
Because of stack.

- ~Second Try~
- ➤ Didn't separate Parachute

Because of Timer Error caused by SD card I/O Error.



## 4. Results (Image Processing)



- ➤ Get images and save the picture to SD card.→Clear
- Find the edge and extract prospective horizon from the taken picture (\*\* Clear on our experiment after second launch)

# Thank you

