

7<sup>th</sup> UNISEC-Global Meeting

***BIRDS Project  
of the Perspective  
from Japanese Students***

Makiko Kishimoto

Laboratory of Spacecraft Environment Interaction Engineering  
Kyushu Institute of Technology, Japan (Kyutech)

December 3, 2019



# Self Introduction

- Name: Makiko Kishimoto
- Nationality: **Japan**
- Affiliation:  
Kyushu Institute of Technology
- Grade: 1<sup>st</sup> year of Master course
- Hobby: Karaoke, Anime..
  
- Project:  
**BIRDS-3 Project** from October, 2017  
(My responsibility are Antenna design and Ground Station.)



# BIRDS project of the perspective from Japanese students

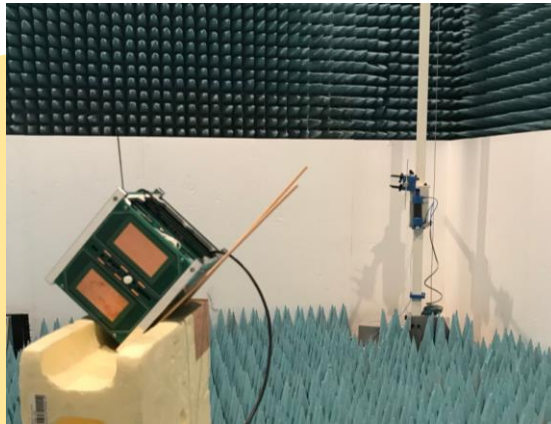
The first thing is..

The story that my English level was improved, and that reason.

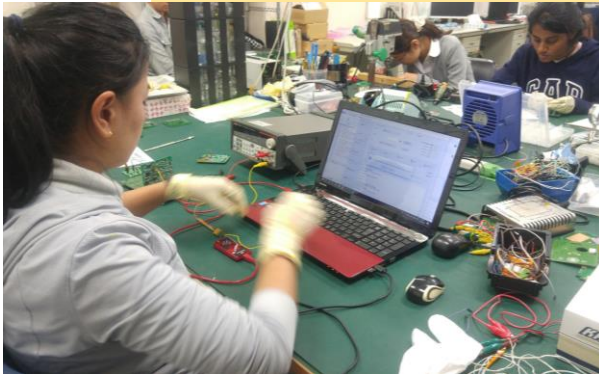
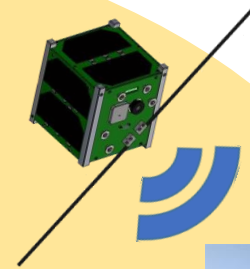
*What do you think the second one is?*

# BIRDS Project

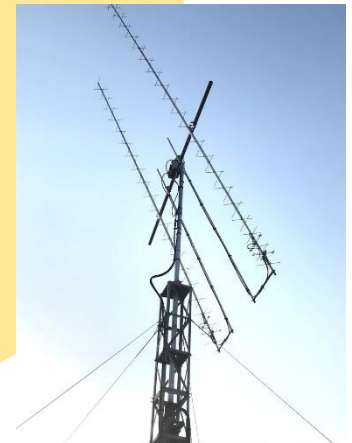
Satellite project for non-space fairing countries.



Testing



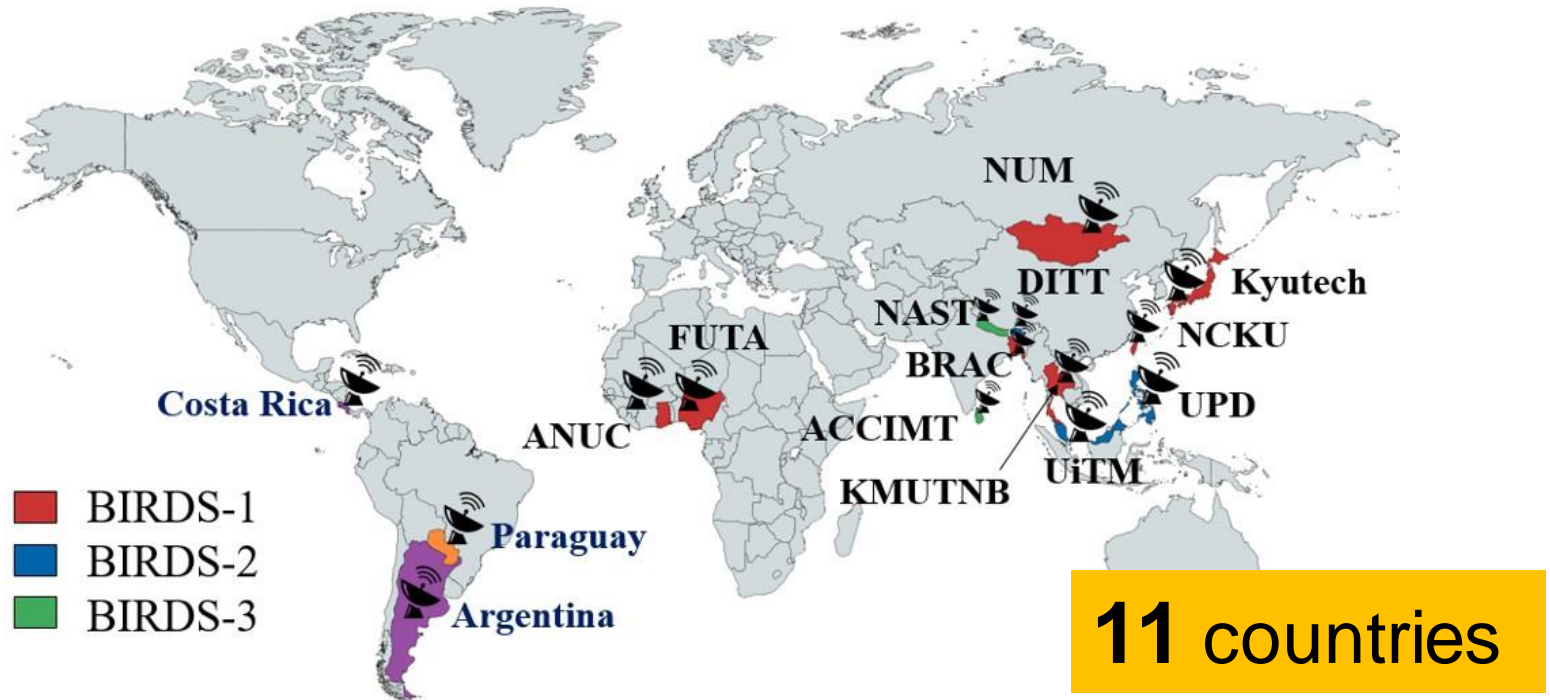
Development



Operation

2 years

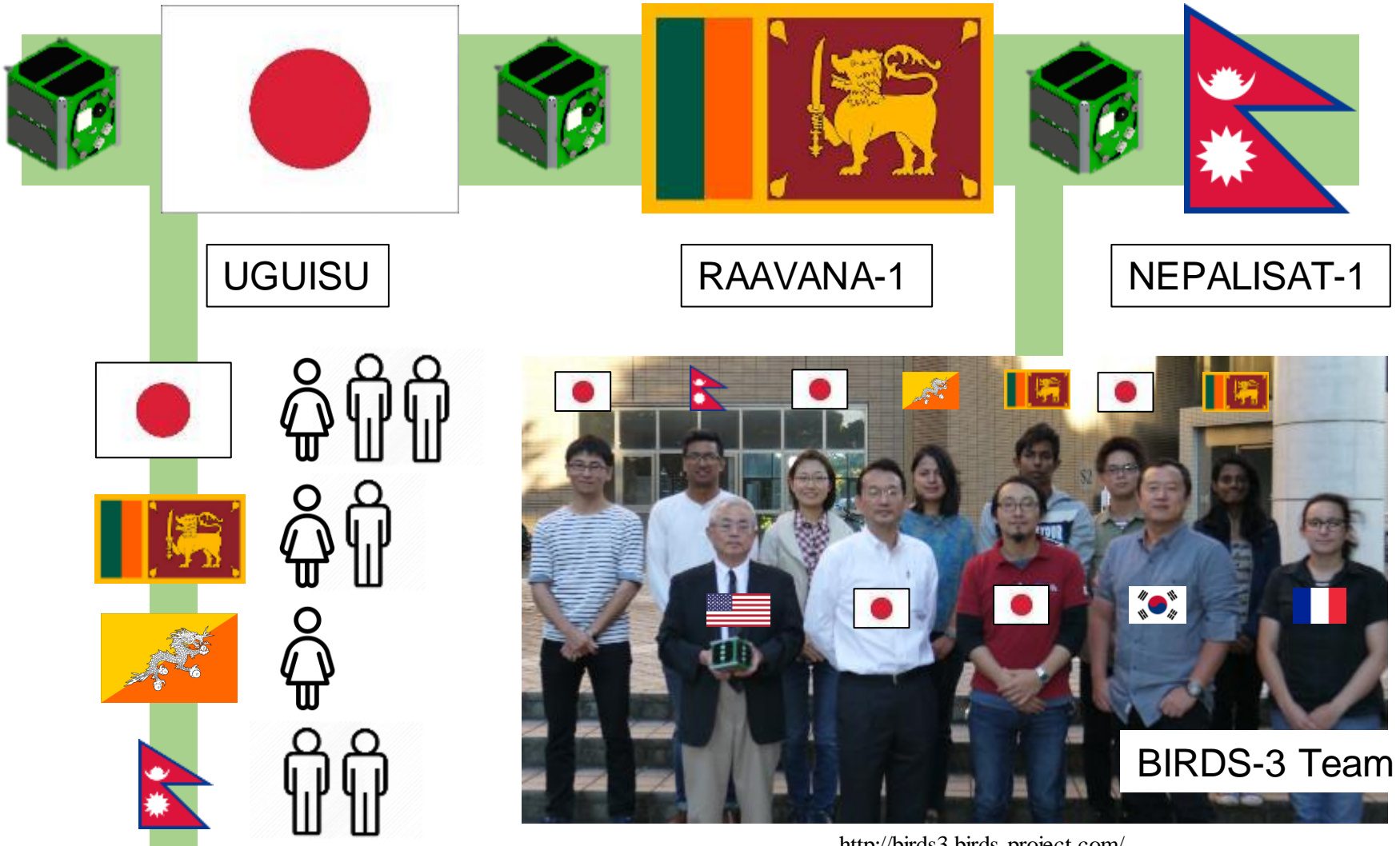
# BIRDS Participating Countries



BIRDS	Participating Countries
BIRDS-1	JAPAN, BANGLADESH*, GHANA*, MONGOLIA*, NIGERIA
BIRDS-2	JAPAN, BHUTAN*, MALAYSIA, PHILIPPINES
BIRDS-3	JAPAN, SRI LANKA*, NEPAL*
BIRDS-4	JAPAN, PARAGUAY*, PHILIPPINES

\* Country which made the first satellite

# BIRDS-3 project



# Main Features of Japanese students in Kyutech

Have a resistance to communicate with international students.

- Can understand only few percent of the conversation in English.
- Don't like to speak English.



# Difficult to understand what they said.

**First 2 months..**

I could understand only **3%** in the project meeting.



**Start Project (2017.10)**



# Difficult to understand what they said.

**First 2 months..**

I could understand only **3%** in the project meeting.



**First Potluck with BIRDS-3 members (2017.11)**

# Difficult to understand what they said.

**First 2 months..**

I could understand only **3%** in the project meeting.



**MDR: Mission Definition Review (2017.12)**

# Difficult to understand what they said.

## First 2 months..

I could understand only **3%** in the project meeting.

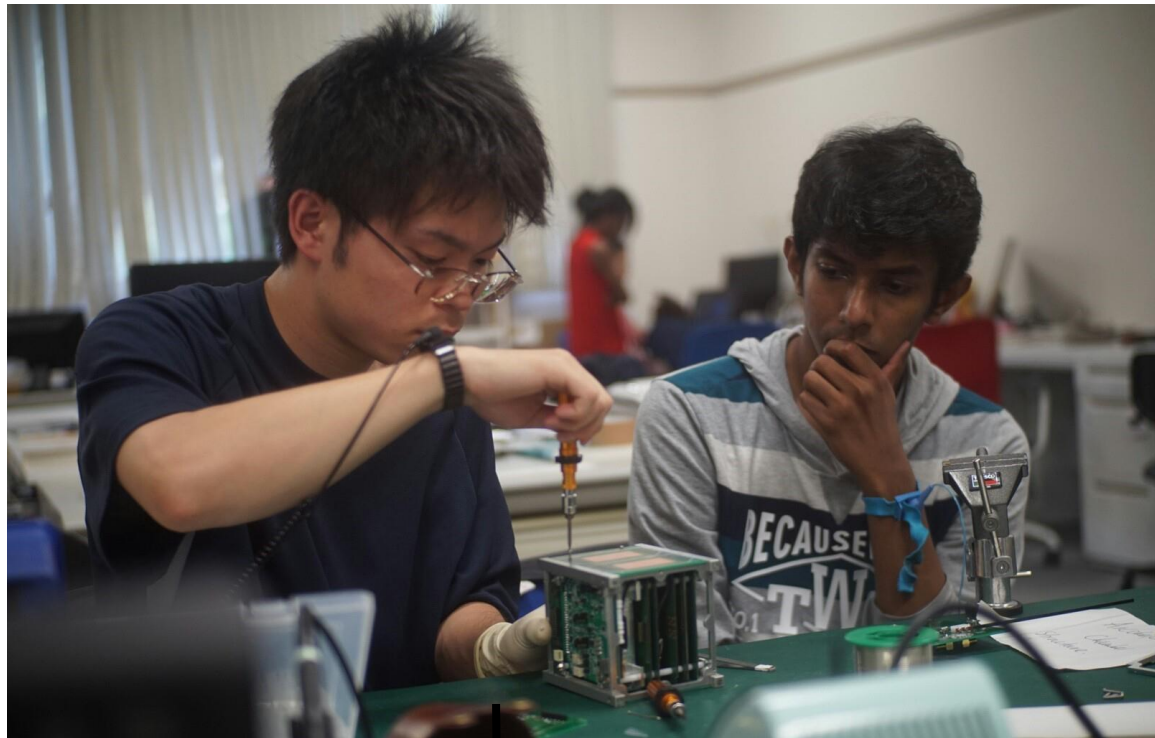


**BIRDS all member meeting (2018.07)**

# Difficult to understand what they said.

## First 2 months..

I could understand only **3%** in the project meeting.

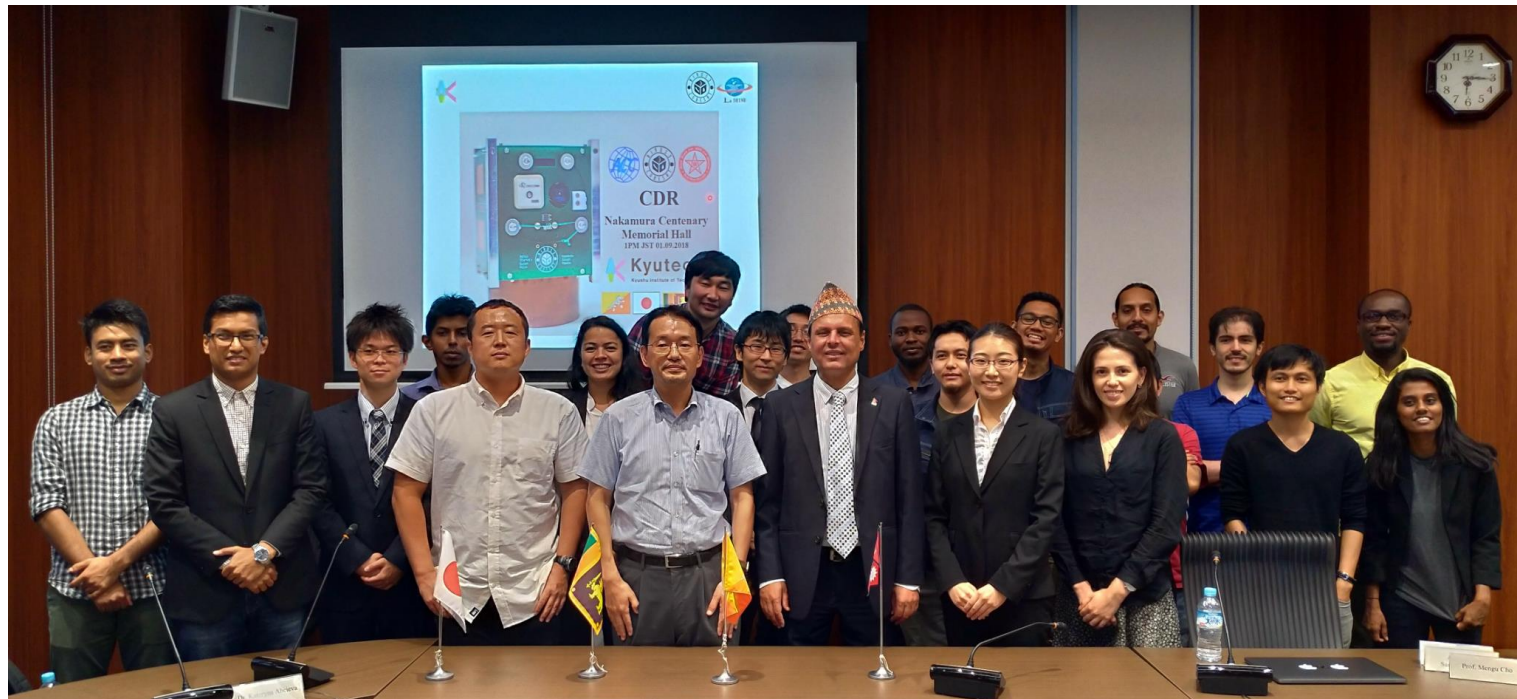


Assembling Structure for EM (2018.08)

# Difficult to understand what they said.

First 2 months..

I could understand only **3%** in the project meeting.



**CDR: Critical Design Review (2018.09)**

# Difficult to understand what they said.

**First 2 months..**

I could understand only **3%** in the project meeting.



**BIRDS-3 Trip in Nagasaki (2018.09)**

# Difficult to understand what they said.

**First 2 months..**

I could understand only **3%** in the project meeting.

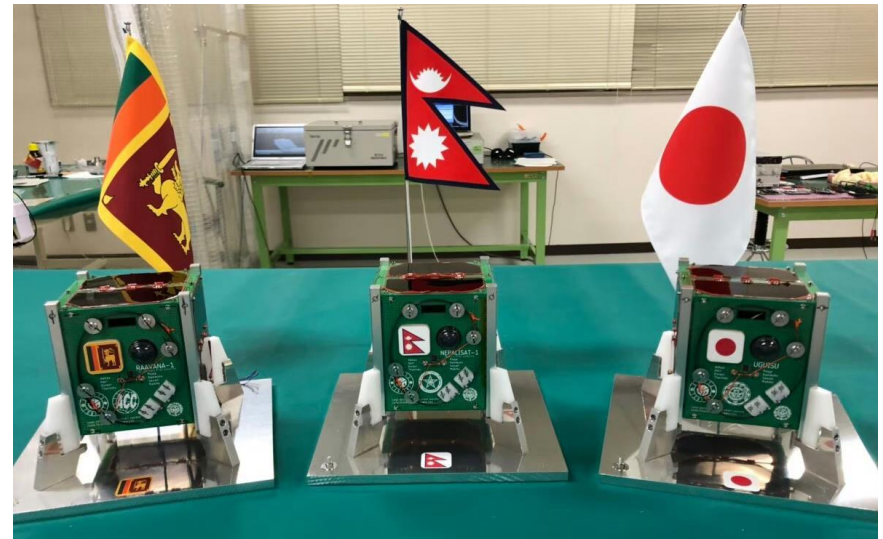


Working for FM in Clean Room (2018.12)

# Difficult to understand what they said.

**First 2 months..**

I could understand only **3%** in the project meeting.



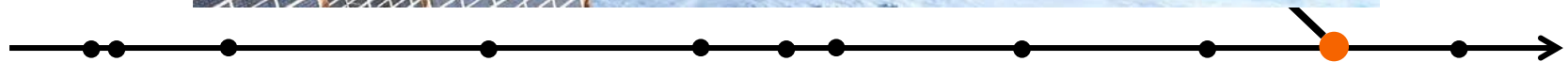
**Completed the Satellites (2019.02)**



# Difficult to understand what they said.

**First 2 months..**

I could understand only **3%** in the project meeting.



**Release Satellites from ISS (2019.06)**

# Difficult to understand what they said.

**First 2 months..**

I could understand only **3%** in the project meeting.



**Picture taken by BIRDS-3 Satellite (2019.06 ~)**

# Difficult to understand what they said.

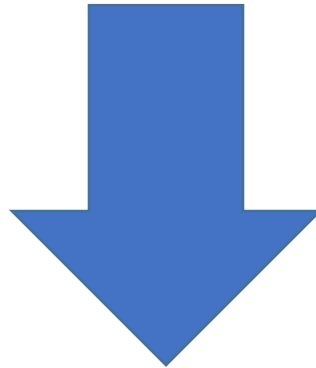
## First 2 months..

I could understand only **3%** in the project meeting.

Meeting

Presentation

Documentation



Eat lunch, dinner

Hard work together

Trip to somewhere

## Now..

I can understand **95%** in the project meeting.

# The reason why my English was improved

We had potluck every month.

Talked about..

- Countries
- Cultures
- Foods
- Ideas
- Feeling

...

BIRDS-3 team is like  
my big Family!!



One day afternoon..

BIRDS project is  
the national project  
for us.  
We cannot fail!!



Project Manager

# The result of this project is important

It is the first satellite in their countries.

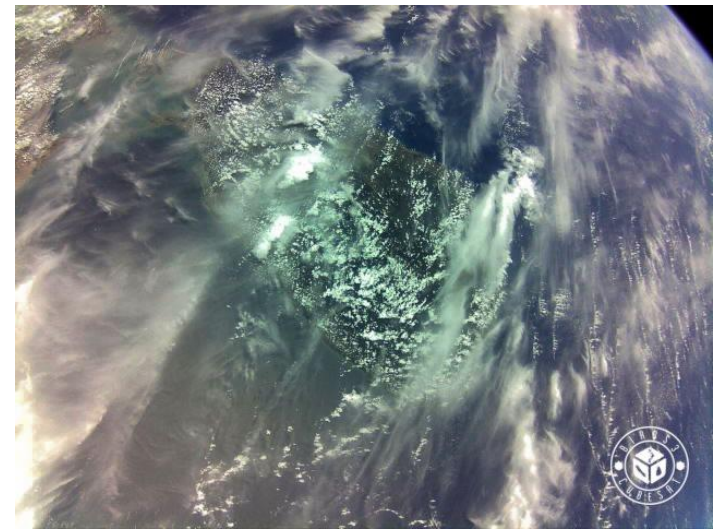
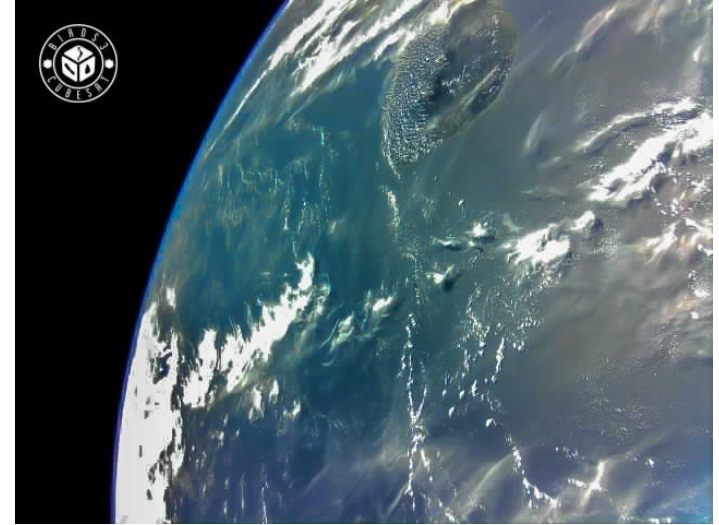


The result of this project greatly influences the future space development of their countries.

BIRDS	Participating Countries
BIRDS-1	JAPAN, <b>BANGLADESH*</b> , <b>GHANA*</b> , <b>MONGOLIA*</b> , NIGERIA
BIRDS-2	JAPAN, <b>BHUTAN*</b> , MALAYSIA, PHILIPPINES
BIRDS-3	JAPAN, <b>SLI LANKA*</b> , <b>NEPAL*</b>
BIRDS-4	JAPAN, <b>PARAGUAY*</b> , PHILIPPINES

*\* Country which made the first satellite*

# Pictures of Sri Lanka taken by their first satellite!!

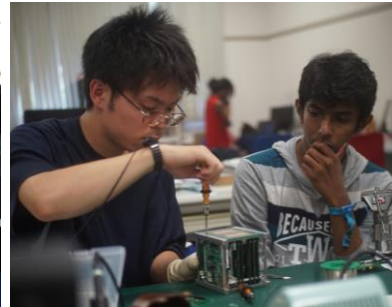


*We are making history!!*

# Thank you for listening!!

## BIRDS Project for Japanese students...

The international exchange experience in Japan!



The historical events built by ourselves.

First satellite for them!!



\* from JAXA Web site