

# The Sky is Not the Limit

PNST Webinar

Withanage Dulani Chamika

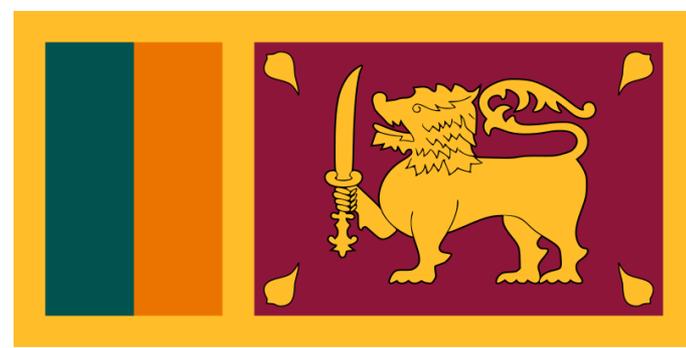
PhD Student

Laboratory of Lean Satellite Enterprises and In-Orbit Experiments  
(LaSEINE)

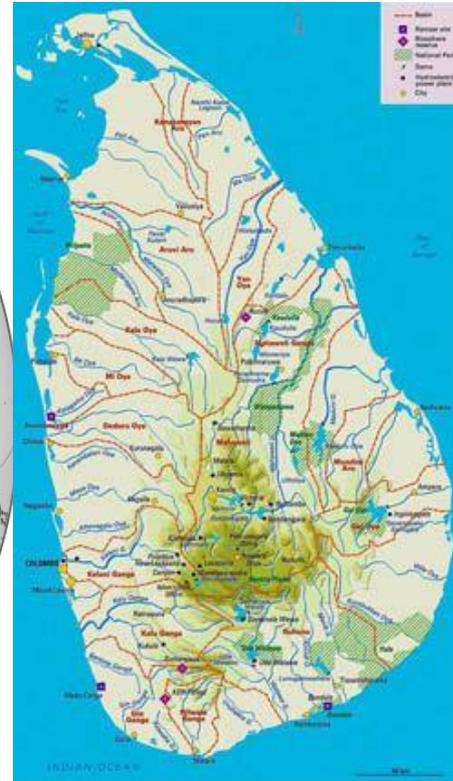
Kyushu Institute of Technology  
Japan



# Introduction: Sri Lanka



wikipedia

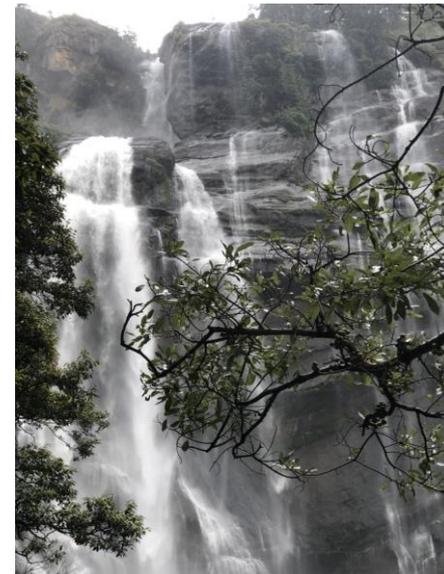


wikipedia



Ceylon Tea

Lakpura.com



Bomburu falls

# Introduction

Master's and PhD in Japan



Sri Lanka

Bachelor's degree in Thailand

geology.com

PNST Webinar

# Introduction

## Education

- Bsc in Mechatronics Engineering – Asian Institute of Technology , Thailand
- Msc in Space Engineering –Kyushu Institute of Technology, Japan



AIT

## Working Experience

- Internship in National Science and Technology Development Agency (NSTDA), Thailand
- Research Assistant in Mechatronics Laboratory in Asian Institute of Technology , Thailand
- Engineer in an Industrial Automation Company in Sri Lanka
- Research Engineer in ACCIMT, Sri Lanka

# After PNST

# Satellite Projects



**BIRDS-3 (Including Sri Lanka's and Nepal's first satellites)**

Raavana-1, NepaliSat-1, Uguisu



**KITSUNE**



# Timeline of BIRDS-3

CDR  
1st Sep 2018

**Mission Definition Review**  
[Post-MDR Modification 1.1]

BIRDS-3 Team  
28th Dec, 2017  
Modification: 13th January, 2018



© JAXA

**Delivery**

Feb 18, 2019

**Launch**

April 18, 2019 (JST)



© NASA

**Operation**

**Deployment**  
June 17, 2019



© NASA Astronaut Nick Hague

**MDR**  
28th Dec 2017

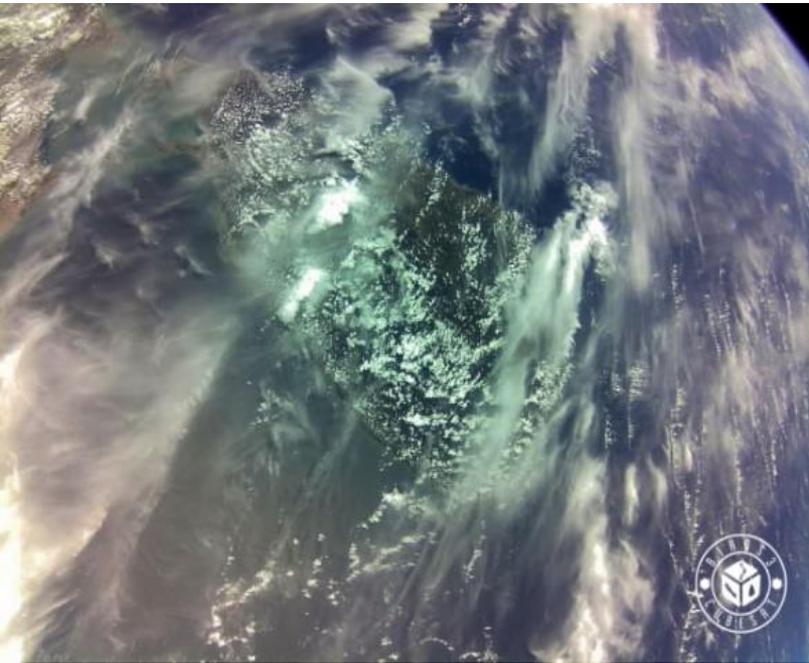
**PDR**  
24th April 2018

**FM**  
Jan 2019

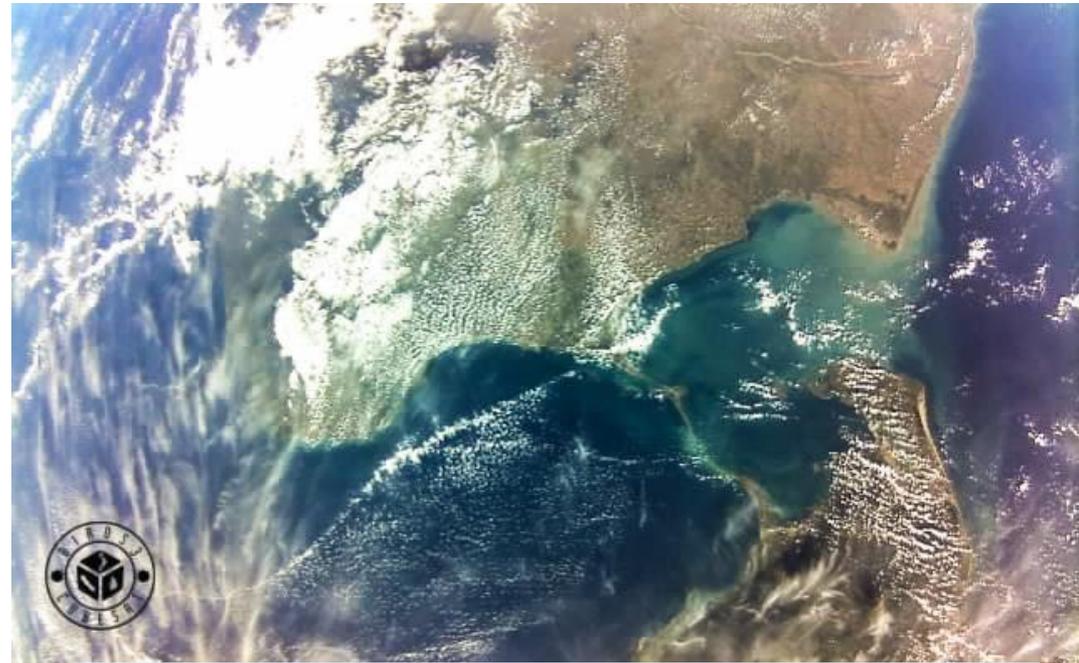
**Kick off**  
4th Oct 2017



# Pictures Taken from Raavana-1

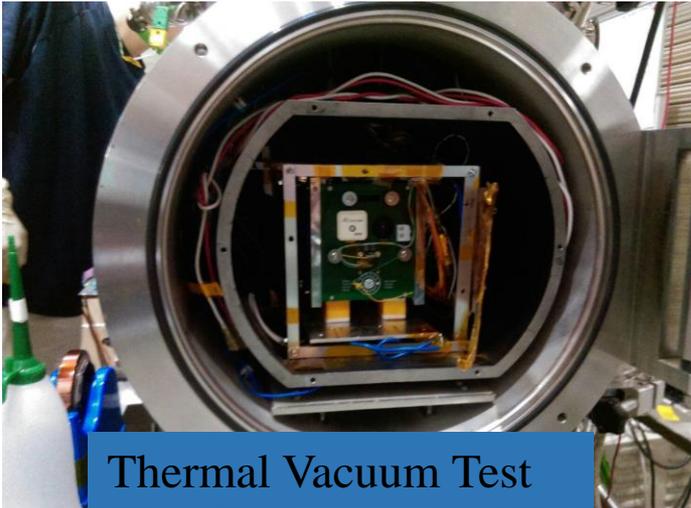


A picture of Sri Lanka by  
Raavana-1



The Palk Strait between  
Sri Lanka and India

# Experiences gained from Kyutech



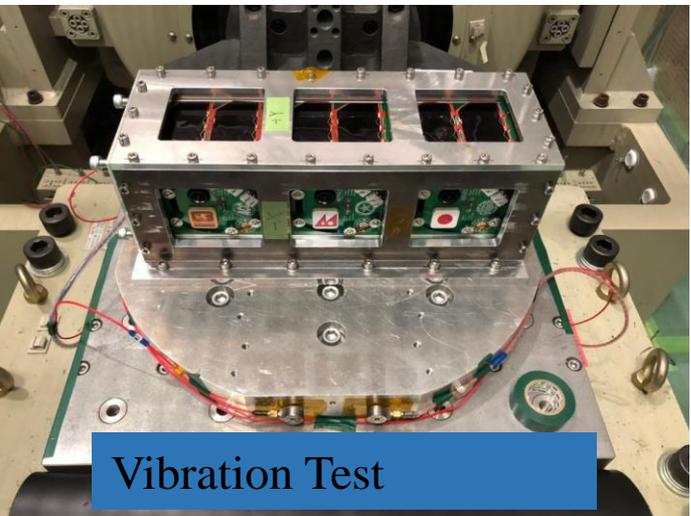
Thermal Vacuum Test



ADCS Testing



Working in a Clean Room

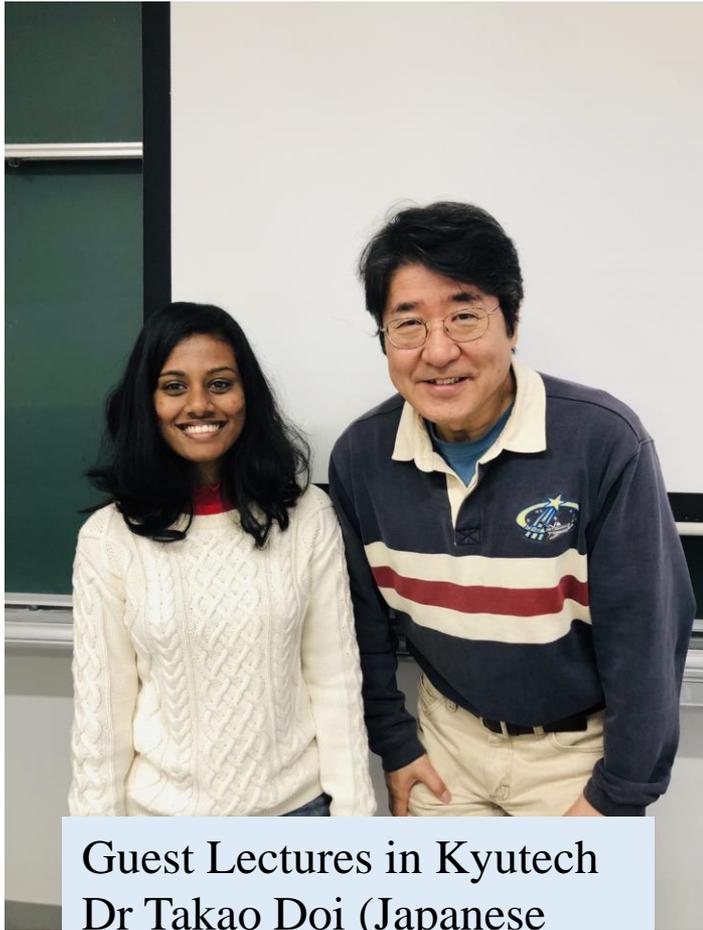


Vibration Test



Ground Station Operations

# Other Opportunities from Kyutech



Guest Lectures in Kyutech  
Dr Takao Doi (Japanese  
Astronaut)



IAC 2019: Washington D.C.



LaSEINE Night at IAC 2019: Washington D.C.

# Life in Japan



Wisteria in 2019



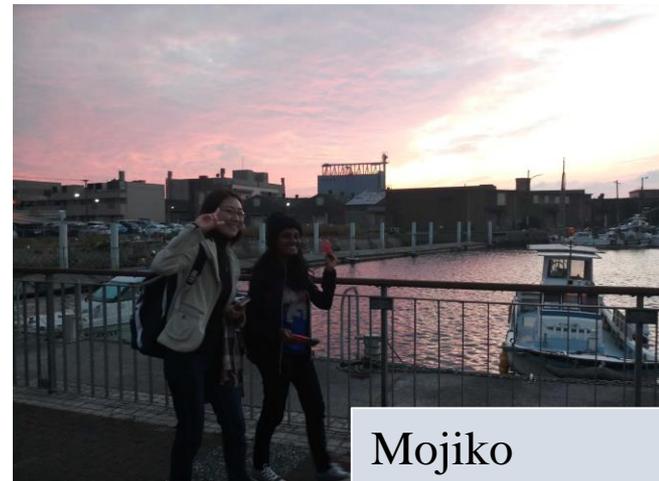
Mountain Climbing



Bicycle rides



Hanami



Mojiko



# Thank you