

Hirotaka Sekine
The University of Tokyo

## UNISEC has pioneered the frontier of small satellites

Where is the next frontier?

東京工業大学 Feb 22, 2006



輝汐(KKS-1) 都立産業技術高専 Jan 23, 2009



しんえん (UNITEC-1) UNISEC May 21, 2010

日本大学

Jul 27, 2006



北海道大学

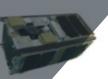
Sep 23, 2006

WASEDA-SAT2 早稲田大学 May 21, 2010

Jan 23, 2009

SPRITE-SAT)

**PROITERES** 大阪工業大学 Sep 9, 2012



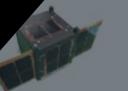
東北大学·和歌山大学 July 21, 2012 (打ち上げ) Oct 5, 2012 (ISSから放出)



FITSAT-1 福岡工業大学 Oct 5, 2012



香川大学 Feb 28, 2014



こすもず(OPUSAT) 大阪府立大学 Feb 28, 2014

東京大学

June 19, 2014

ほどよし3号

June 19, 2014

東京大学

2014



ほどよし1号

Nov 6, 2014

東京大学

TeikyoSat-3 筑波大学 帝京大学 Feb 28, 2014 Feb 28, 2014



雷神2(RISING-2) 東北大学·北海道大学 May 24, 2014





SPROUT 日本大学 May 24, 2014



**TSUBAME** 東京工業大学 Nov 6, 2014



つくし(QSAT-EOS) 九州大学 Nov 6, 2014



ChubuSat-1 名古屋大学、他 Nov 6,2014



**PROCYON** 東京大学 Dec 3, 2014













## The importance of deep space exploration is increasing

MISSION: 2 TO 3 RETURN TO EARTH:

How about universities?

mentals cernational Station

Expanding capabilities by visiting an asteroid redirected to a lunar distant retrograde orbit

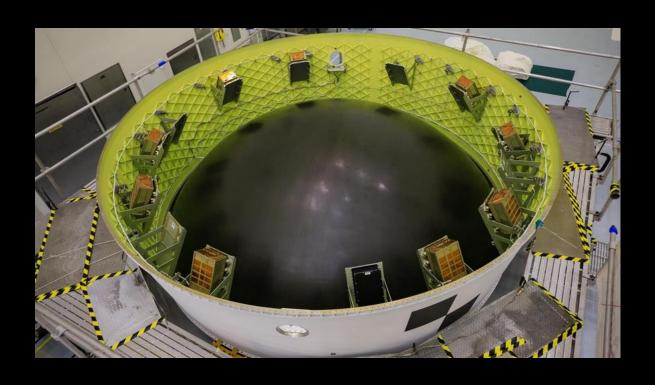
The next step: traveling beyond low-Earth orbit with the Space Launch System rocket and Orion spacecraft



Developing planetary in by exploring Mars, its other deep space de

. companies Jvide access to low-Earth orbit

## University deep space exploration CubeSats



### LunaH-Map

- Arizona State University

#### Luna IceCube

- Morehead State University

## **EQUULEUS**

- The University of Tokyo

# Purposes of a University Community for Deep Space Exploration

- 1. Sharing experiences and information from a student's perspective.
- 2. Learning about deep space exploration from professionals.



# FY2024 Plan



Please join us.



Hirotaka Sekine
The University of Tokyo
sekine@space.t.u-tokyo.ac.jp

