



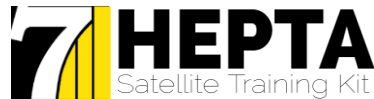
Providing Space Systems Engineering Hands-  
on Practices  
Pico-satellite Training Kit HEPTA-Sat

# UNISEC-Japan

Kento Maeda

Department of Aerospace, Nihon University

The 6<sup>th</sup> UNISEC-Global Meeting



# About UNISEC-Japan

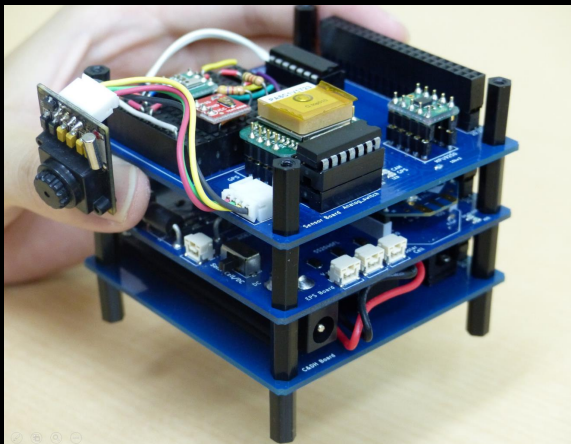
ARLISS



i-CanSat



HEPTA-sat

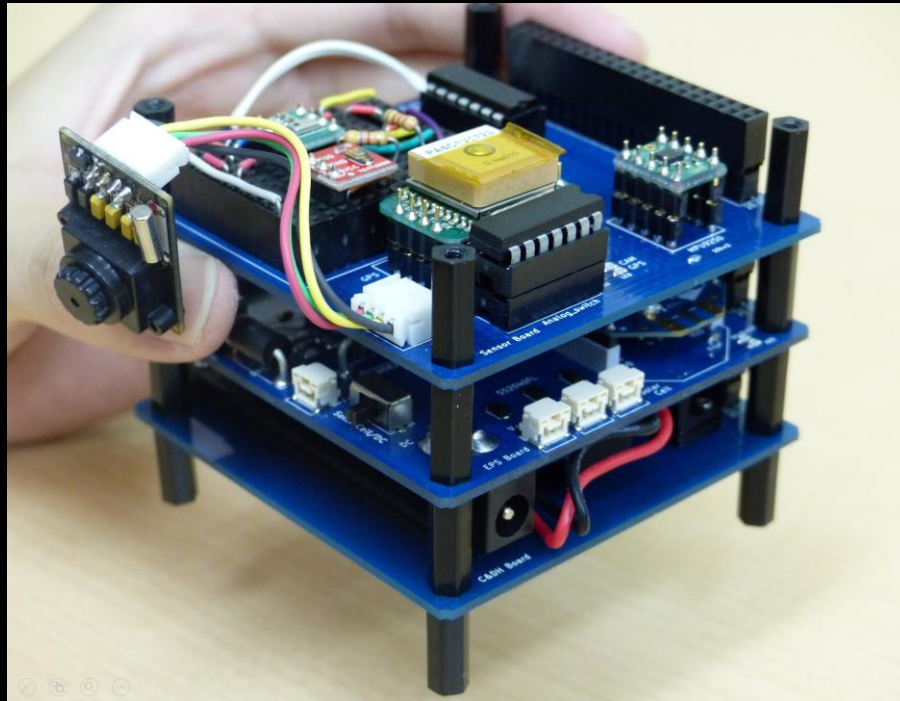


MIC



# About UNISEC-Japan

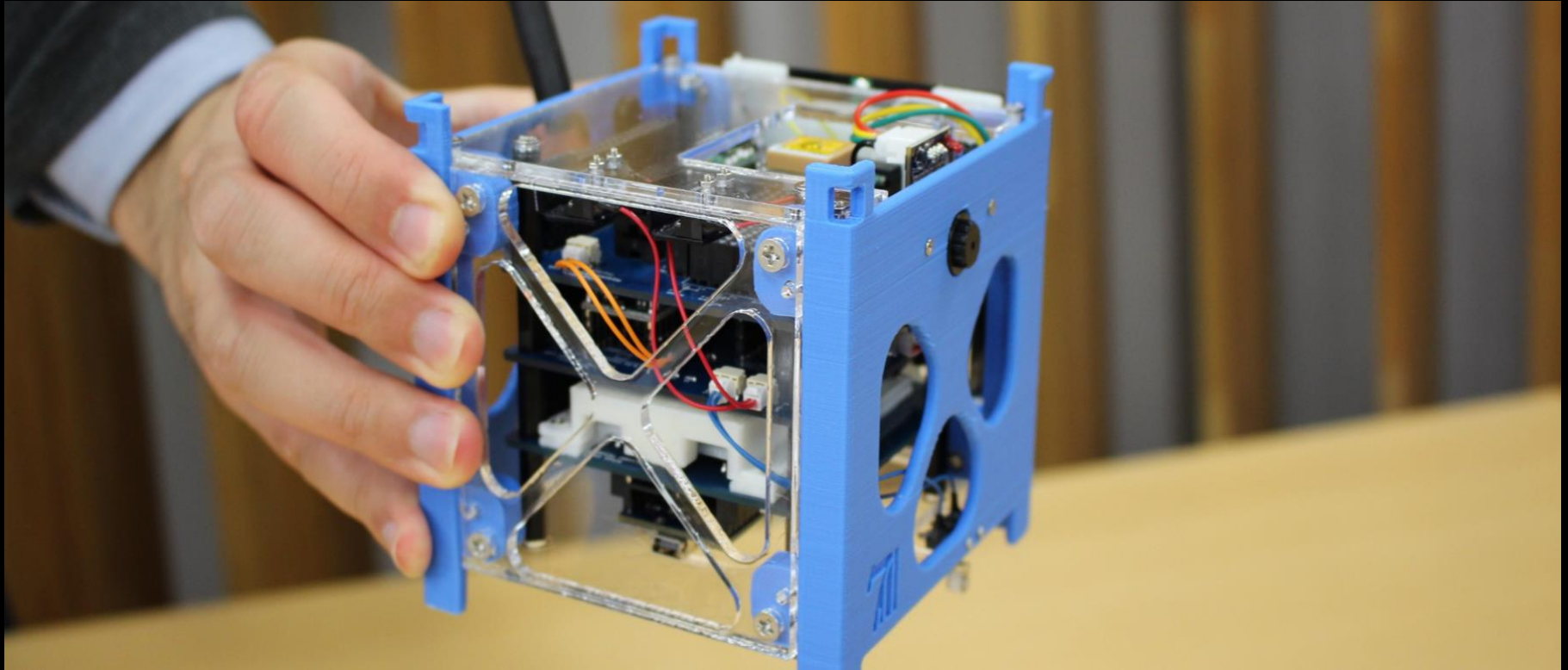
## HEPTA-sat



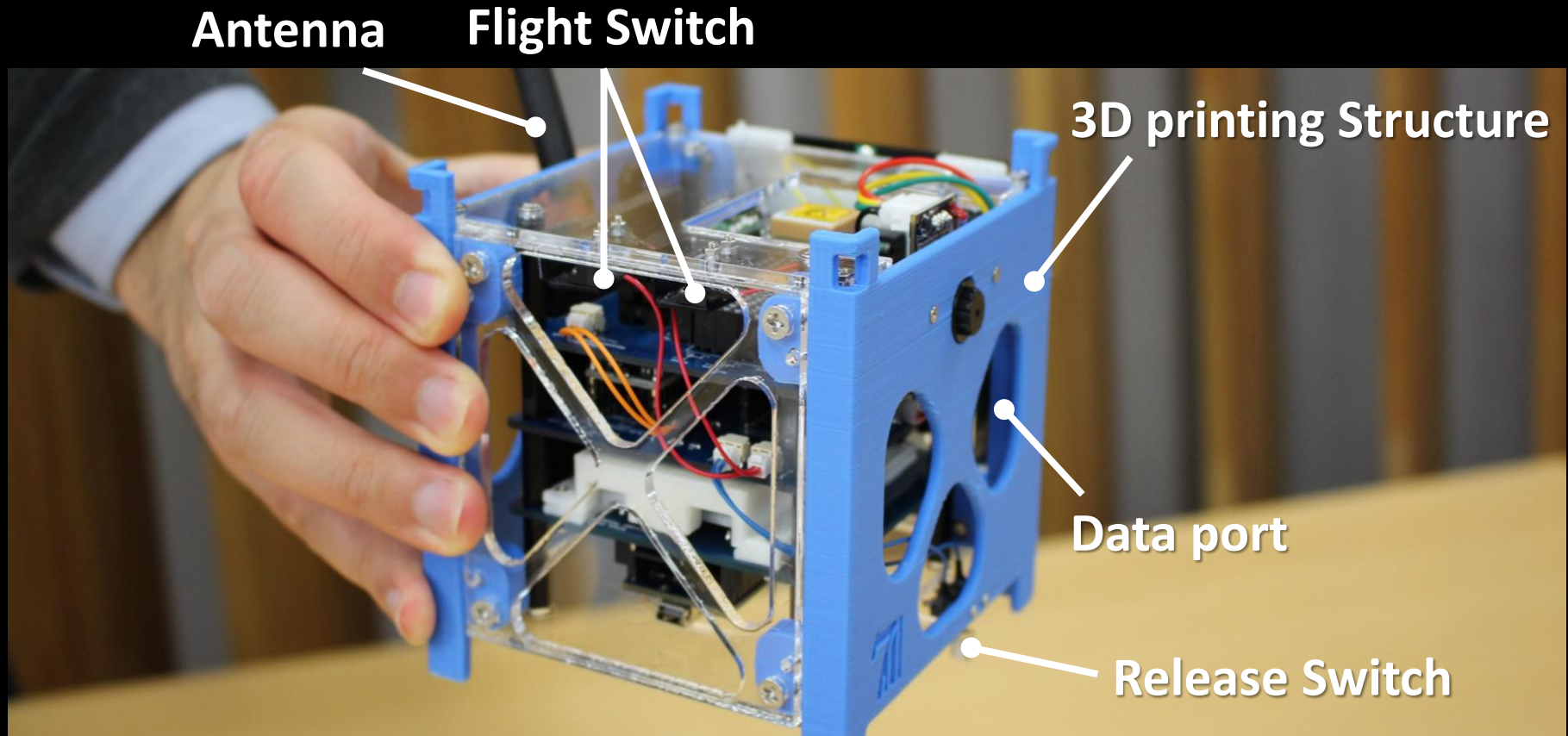




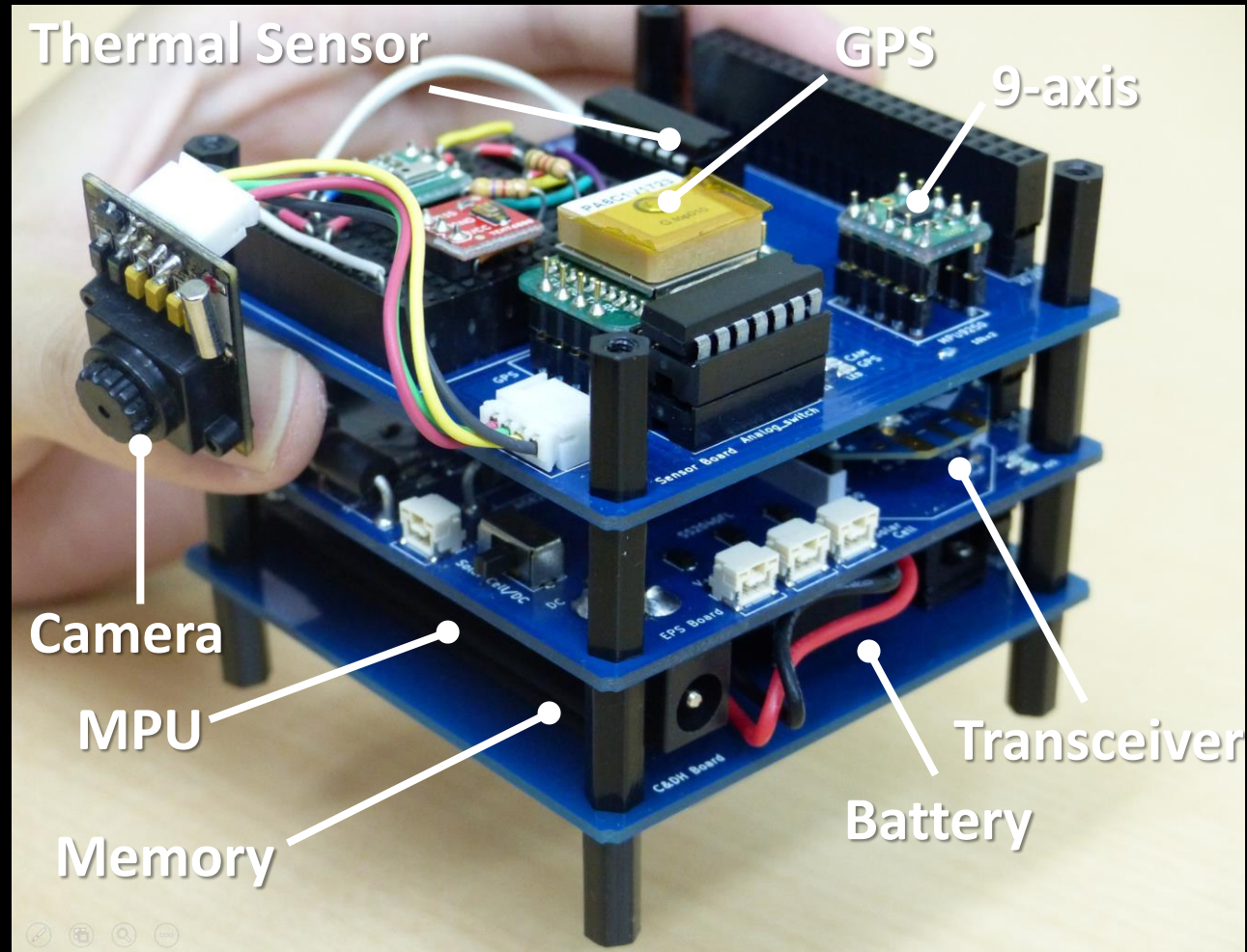
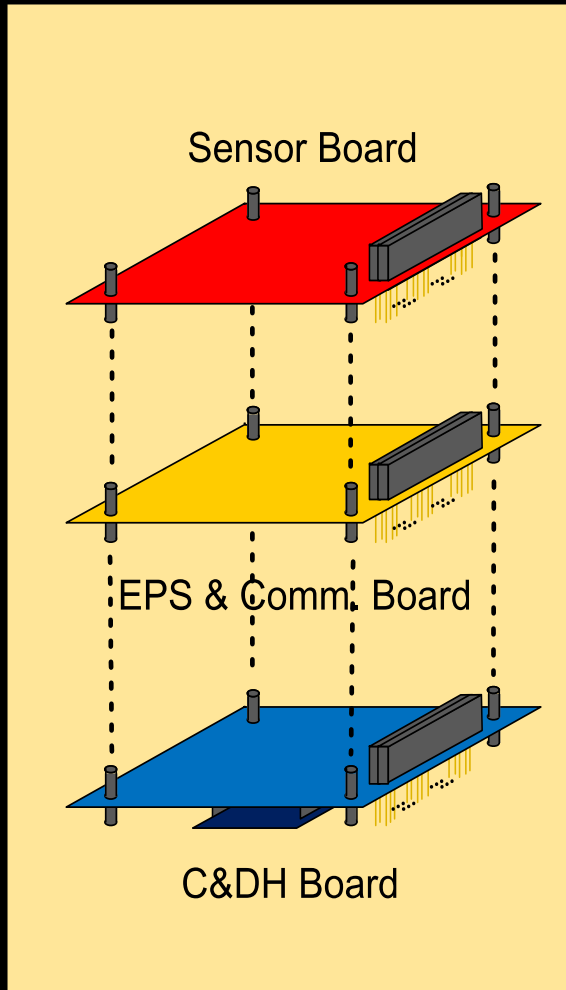
# 7 What is HEPTA-sat?



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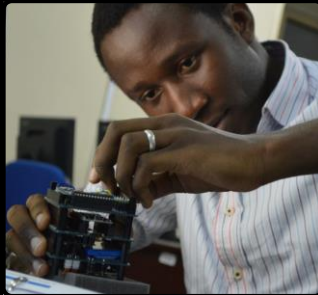
# 7 What is HEPTA-sat Training?

- 1) Understanding basic satellite system architecture.
- 2) Experiencing the pico-satellite development process in a short time.
- 3) Acquiring the basic knowledge of space engineering.

**Step 1:**  
Lecture



**Step 2:**  
Hardware Assembly



**Step 5:**  
Field test



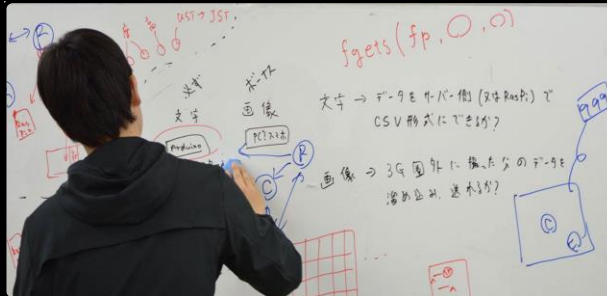
**Congratulations!**



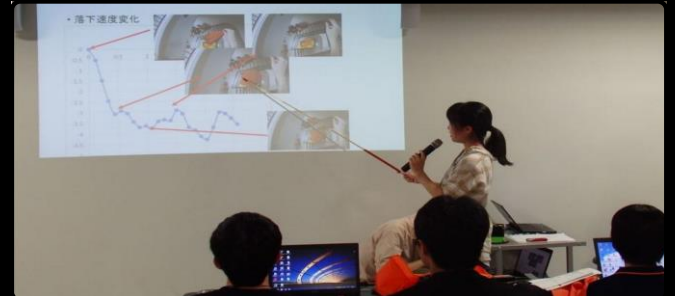
**Step 3:**  
Hardware & Software  
Integration



**Step 4:**  
Mission Design

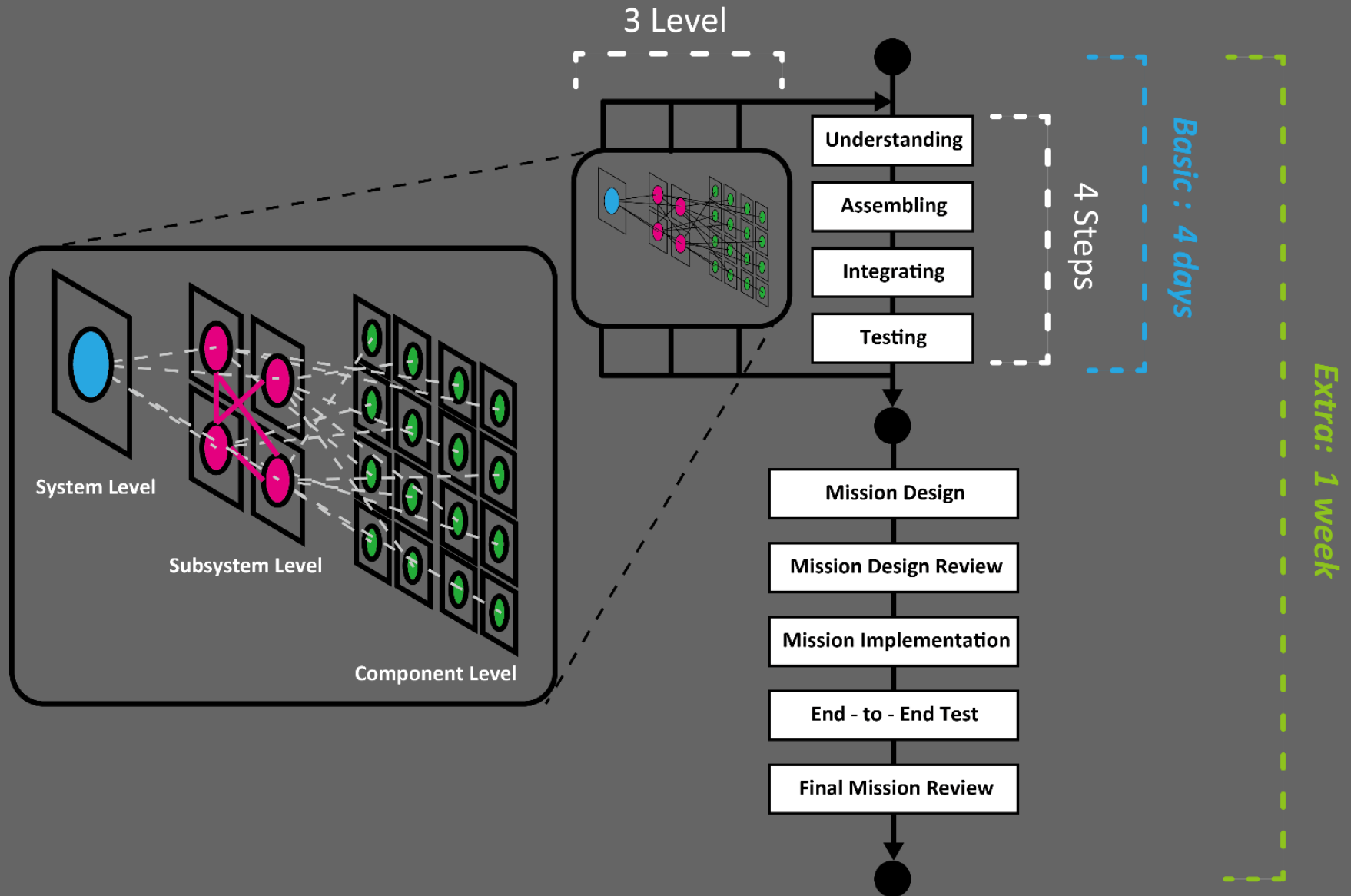


**Step 6:**  
Review & Presentation

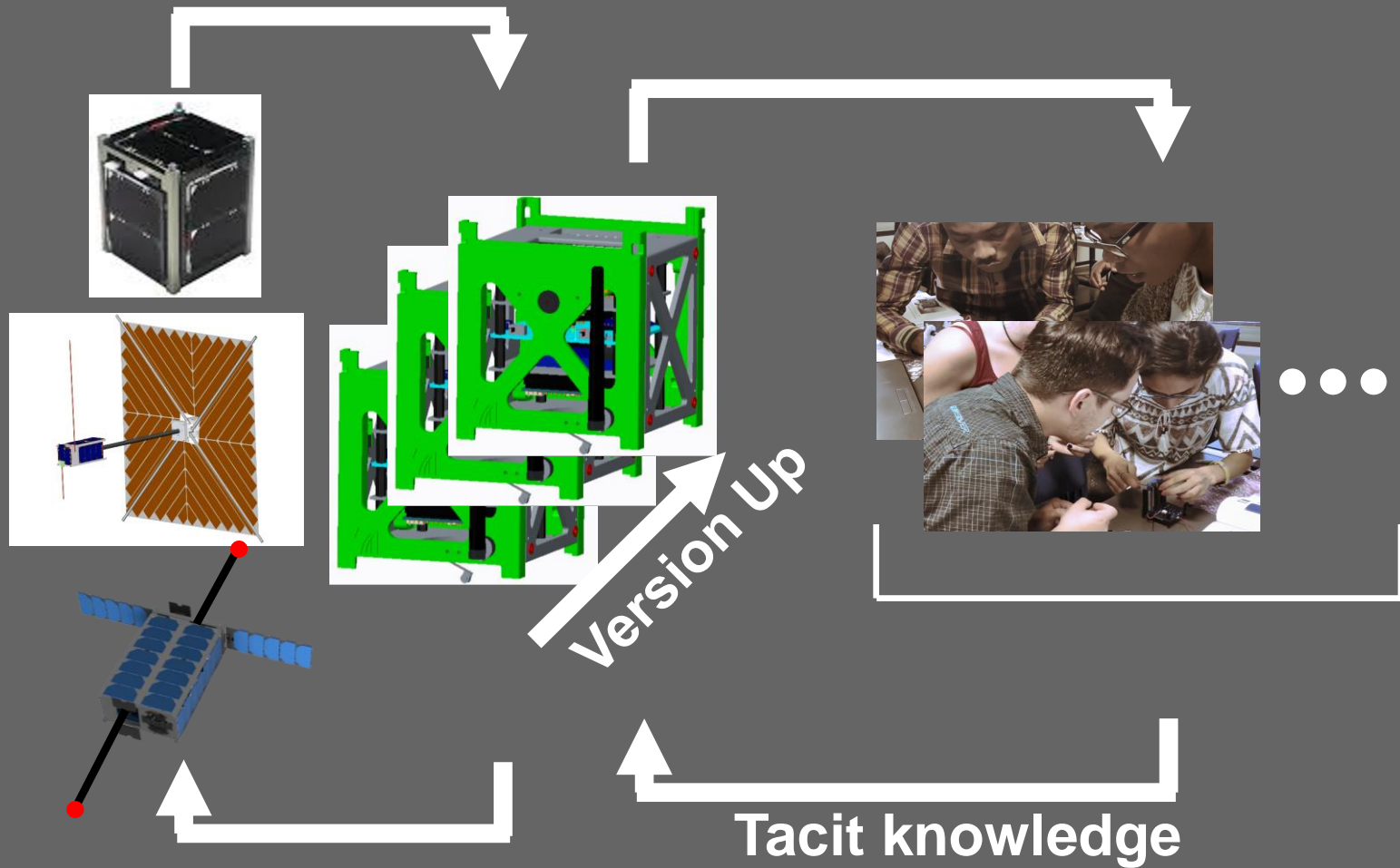




# 7 Training Flow

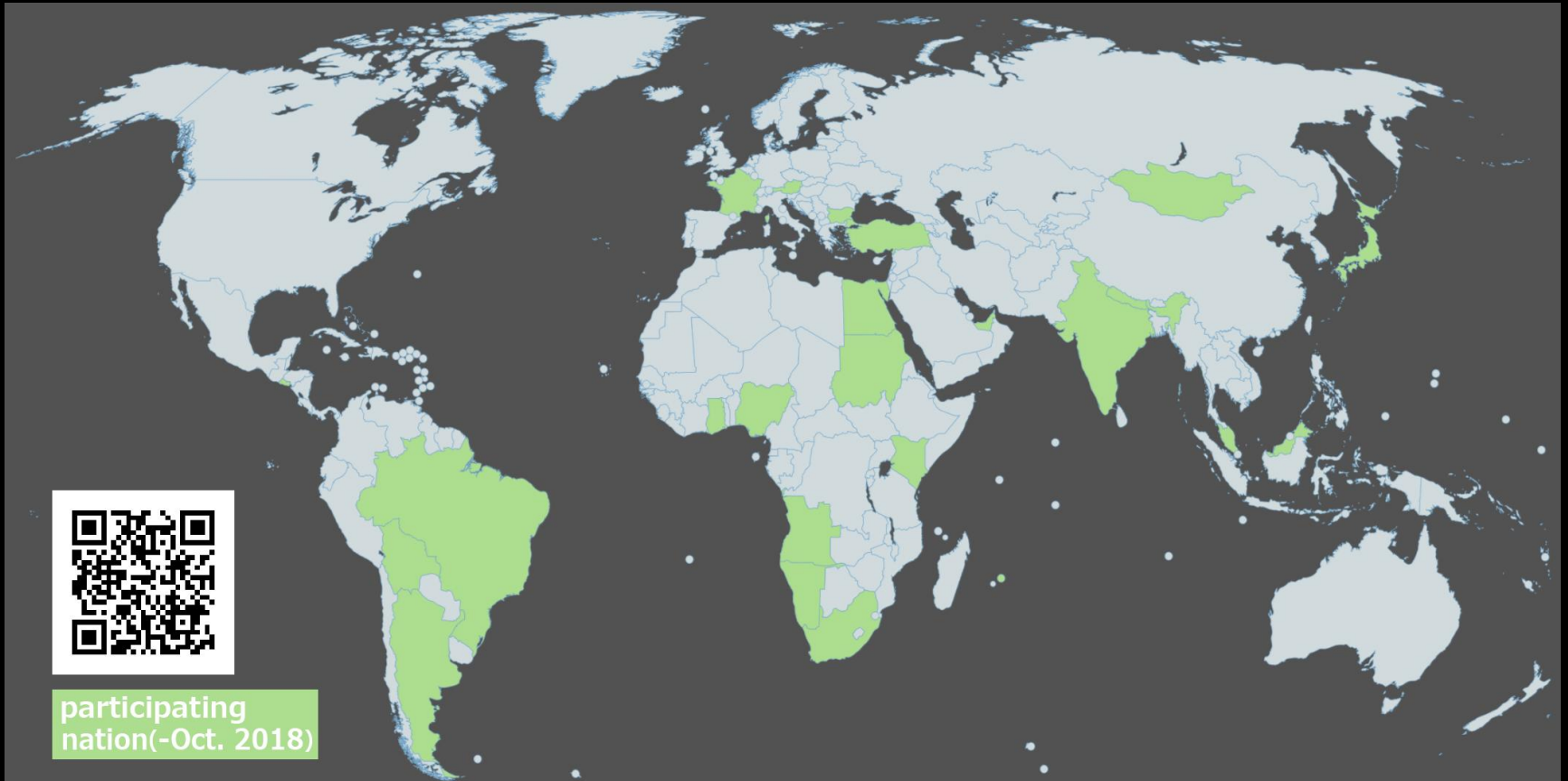


# 7 Knowledge Transfer Concept



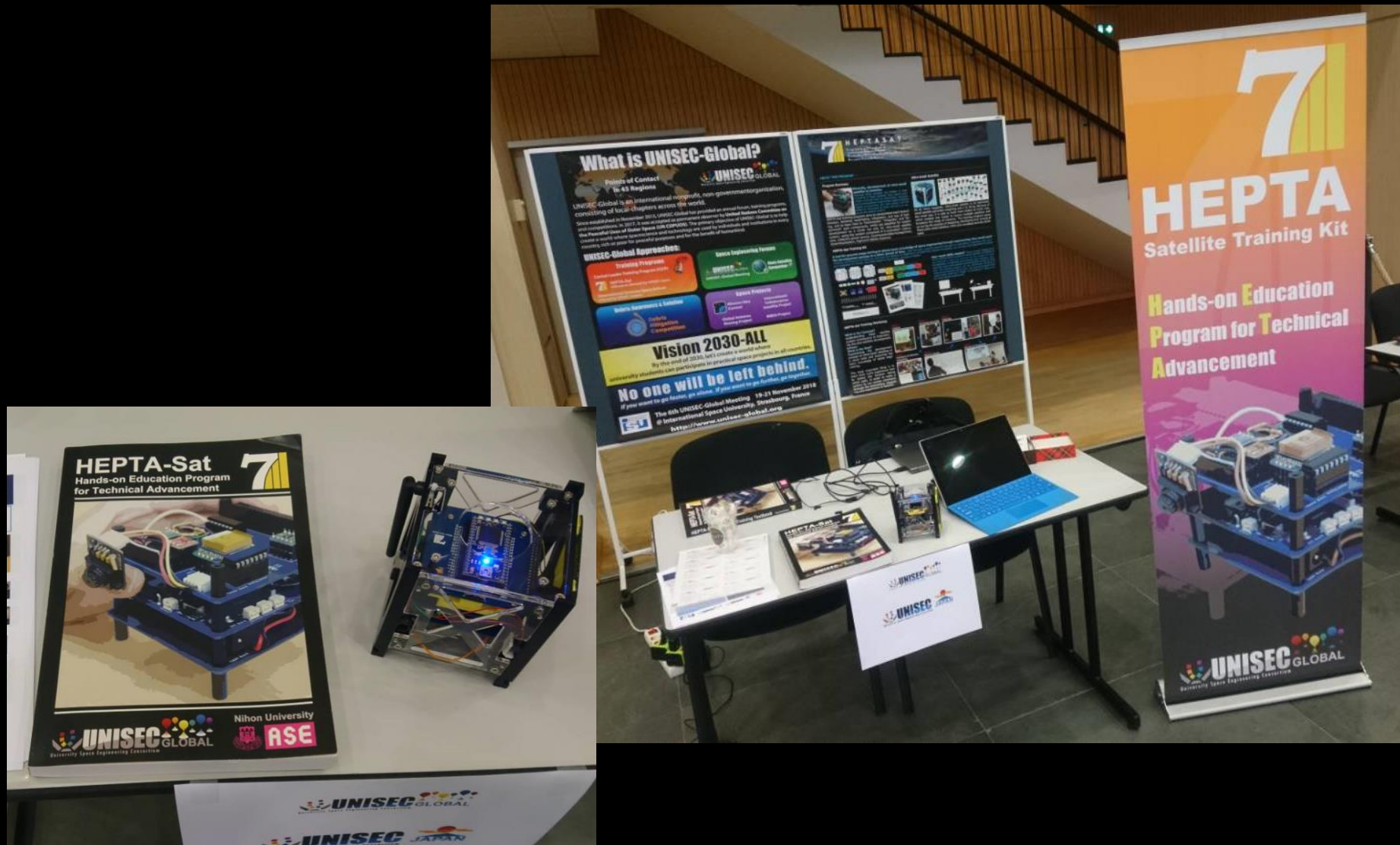
# 7 Past and Future Activities

- Altogether, 109 participated from 19 countries (Egypt, Turkey, Bolivia, El-Salvador, Malaysia, Nepal, South Africa, Namibia, Sudan, Ghana, Nigeria, Kenya, Mauritius, Brazil, UAE, Argentina, India, Mongolia and Japan) in 2017 to 2018.





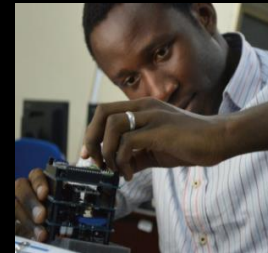
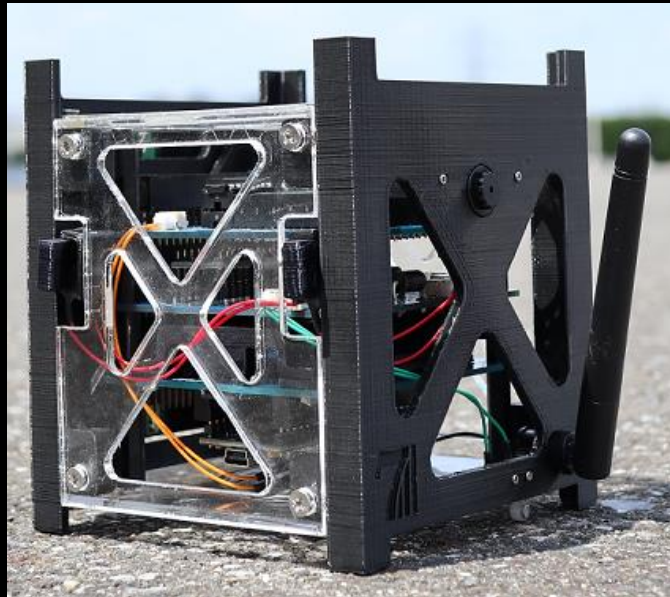
# 7 UNISEC-Global Meeting



# 7 After this event HEPTA-sat training

Place : ISU

Day : 22nd, 23rd, Nov.



Thank you for your attention!