

# Opportunities and Challenges of a University Satellite Project

Ertan Umit

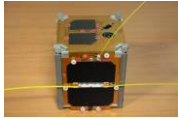
Mitsuhiro Masuda

# About Our Topic

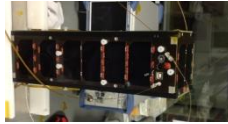
In the 20th century, it was almost impossible that university students build a satellite, launch and operate it. It is a reality, however, in the 21st century. In this group, pros and cons, difficulties and opportunities will be discussed to seek the reason why university students should participate in practical space projects in many places in the world.

# Turkish Roadmap

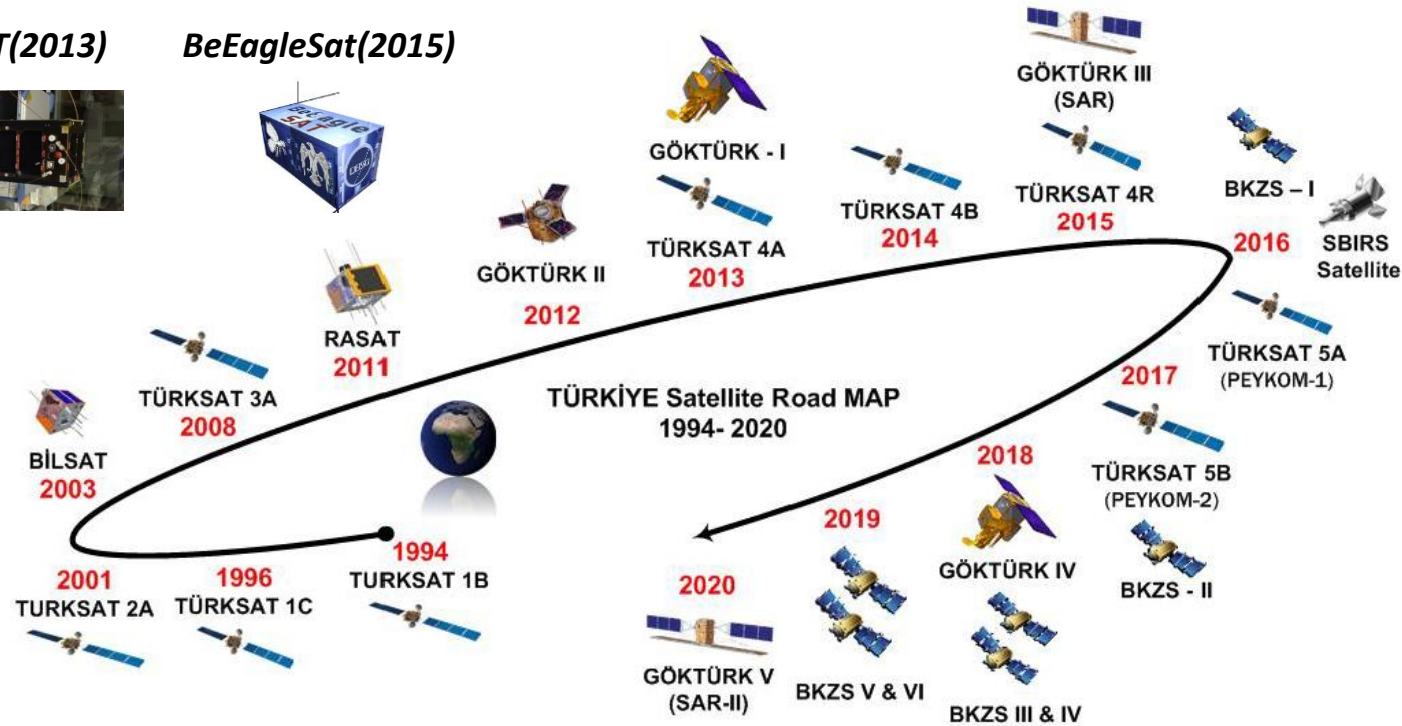
*ITUpSAT1(2009)*



*3USAT(2013)*



*BeEagleSat(2015)*



- Started with Bilsat 2003
- ITUpSAT1 2009
- TURKSAT3USAT
- BeEagleSat 2015

# Opportunities

- Gain experience.
- lead generation.
- collaborate internationally.
- get help from everyone.
- contribute to development and brighter future

# Challenges

- **NONE** (for beginners only !!!)
- Things get interesting in time.
- Technical
  - Facilities, equipment, manufacturing, testing
- Non-technical (management)
  - Regulations, govnmnt & financial issues

# Opportunities & Challenges

- Students.
  - Volunteers.
  - Hardworking.
  
  - Difficult to manage
  - They leave and never come back.

# Final Passing Word

- In the 20th century, it was almost impossible that university students build a satellite, launch and operate it. It is a reality, however, in the 21st century. In this group, pros and cons, difficulties and opportunities will be discussed to seek the reason **why university students should participate in practical space projects in many places in the world.**
- What should we do to promote space projects?
  - No bookworms, have fun.