Group Discussion #10 at the 2nd UNISEC-Global Meeting

Successfully Launch University Satellites: From Design to Orbit

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Discussion Topics

- Open discussion!
- Challenges for launching student satellites:
  - Technical?
  - Programmatic?
  - Regulatory?
  - Other hurdles?
- Learning from our mistakes
- Goal is to create affordable access to space for all student satellites
  - More than just launching satellites, it is a great learning experience for students of all ages!

What Challenges Can We Control?

- **Simple vs Complex Satellite/Payload**
  - **Keep it simple**
- **Understanding Your Capabilities**
  - **Designing vs Partnering vs Buying**
- **Documentation and Procedures**
- **Schedule**
- **Others?**

What Challenges Can We NOT Control?

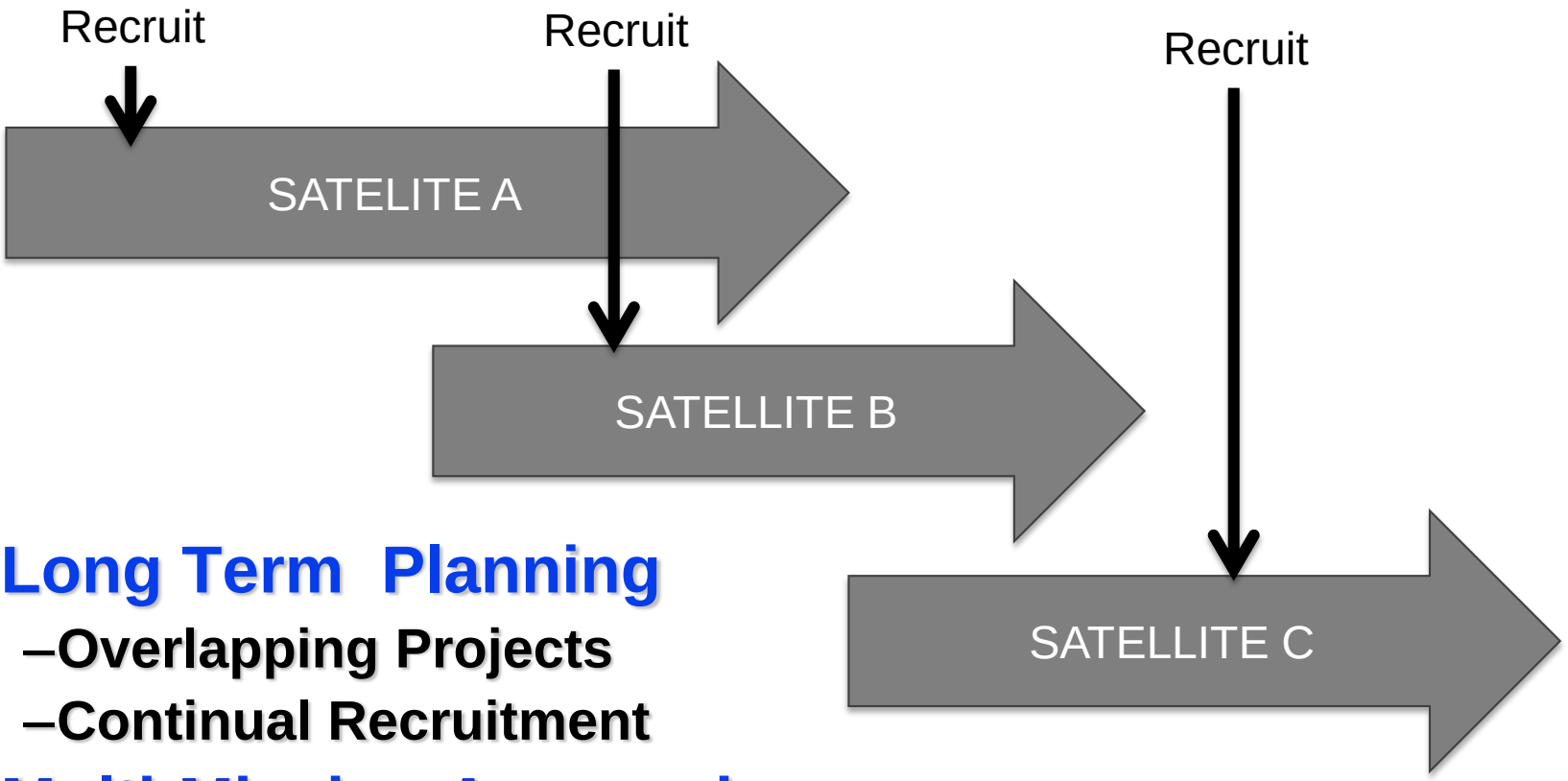
- **Launch Vehicle Success**
  - **Launch vehicles fail occasionally, need to be able to withstand it**
- **Government Approvals and Politics**
  - **Conflict between countries**
- **Others?**

Successful Launch

Picture taken by IPEX (Cal Poly / JPL) on Dec. 6th 2013

Lesson Learned: Acceptance of LV or Satellite Failures

Build a Program, not a Satellite



- **Long Term Planning**
  - –Overlapping Projects
  - –Continual Recruitment
- **Multi-Mission Approach**
  - –Easier Transitions
  - –Retain Skills & Train New Personnel

Goals for Discussion

- Understand issues CubeSat Programs must face
- Reduce challenges for CubeSats through a collaborative environment
- End goal is to create affordable access to space for all student, commercial, government satellites
  - More than just launching satellites, it is a great learning experience for students of all ages!

- In collaboration with UNISEC-Global, we would like to continue these discussions with all participants in the future.

Vision of UNISEC-Global - 2020-100

- ***"By the end of 2020, let's create a world where university students can participate in practical space projects in more than 100 countries"***