

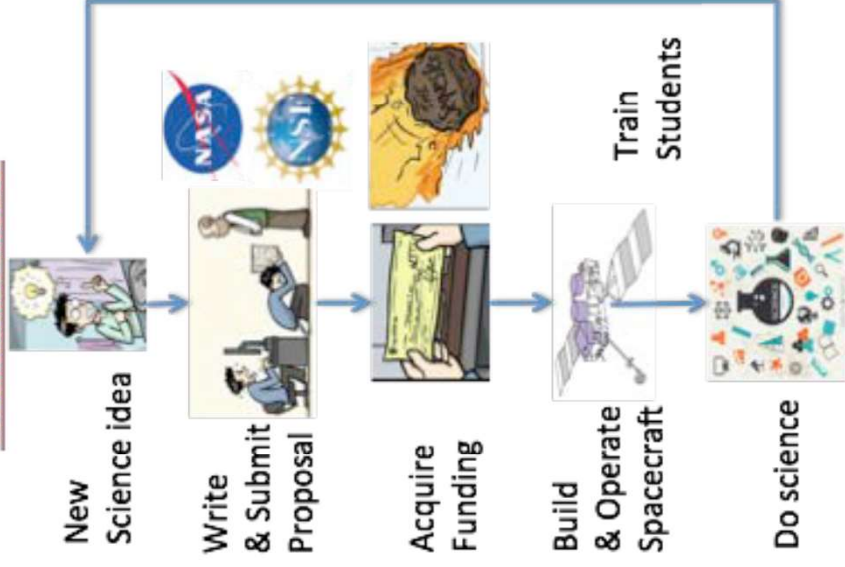
INSPIRE: A global university space program

Amal Chandran

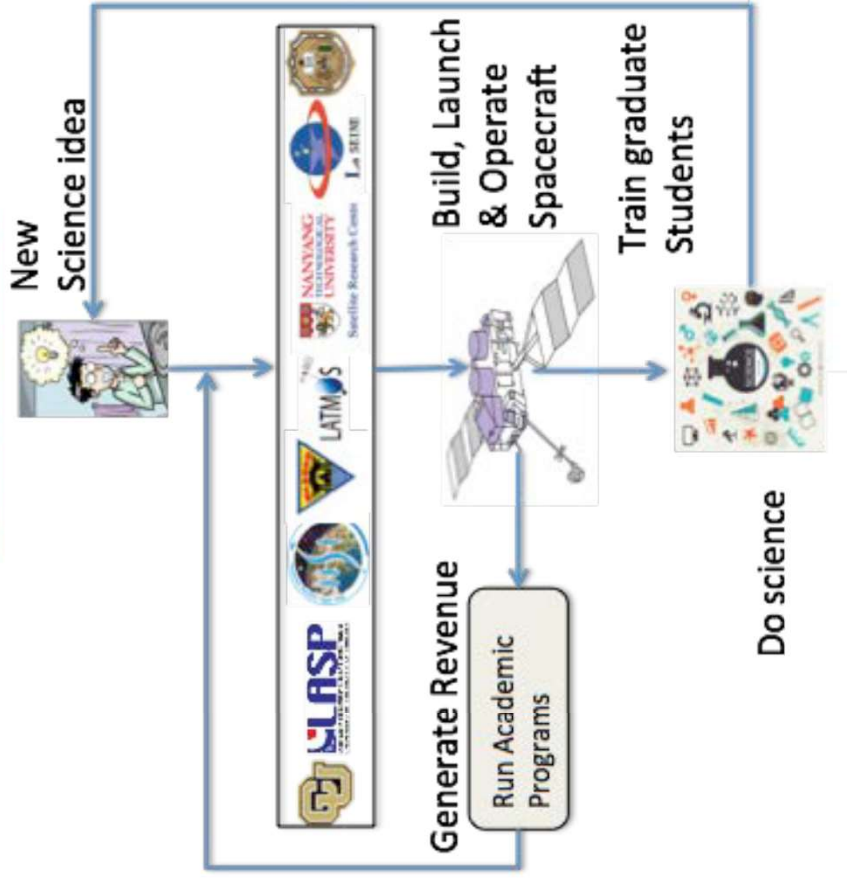
INSPIRE Program Manager
LASP, CU-Boulder
Associate Director
Satellite Research Center, NTU, Singapore.

How does INSPIRE work ?

Traditional Model



New Academic Model



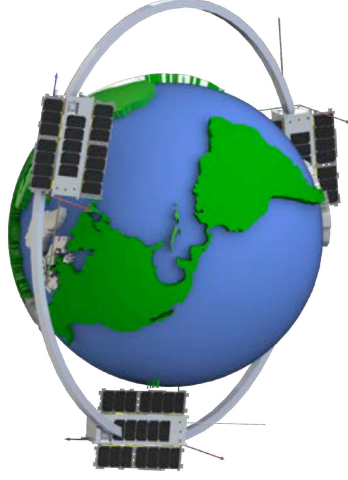
How is it working out ?

INSPIRE is acting as a catalyst for Universities to leverage each other's technical expertise and generate funding for pursuing scientific & student training missions.



INSPIRESAT

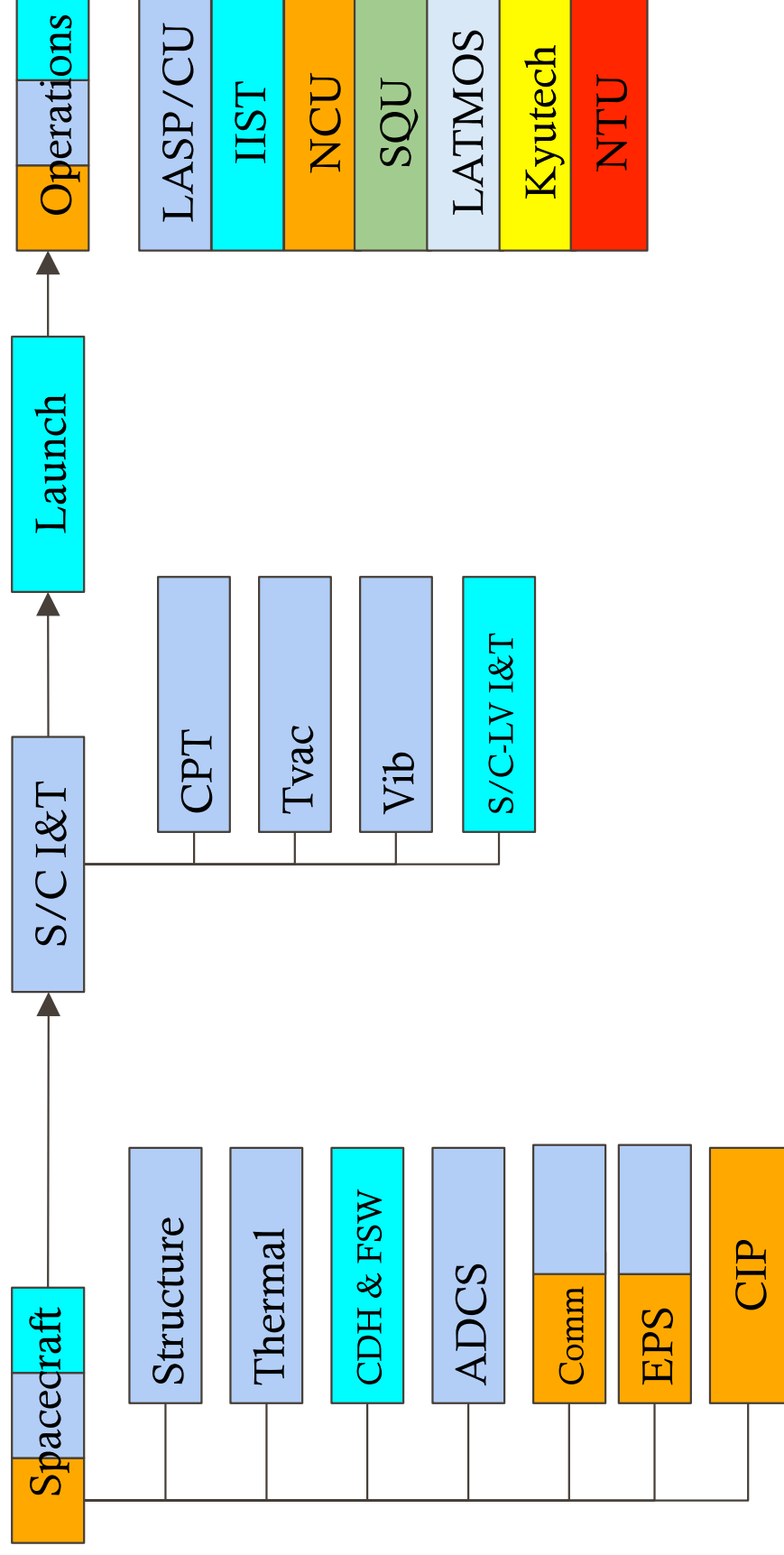
**INSPIRESAT-1- Funded by CU Boulder,
NCU Taiwan and IIST/ISRO
Launch in 2019**



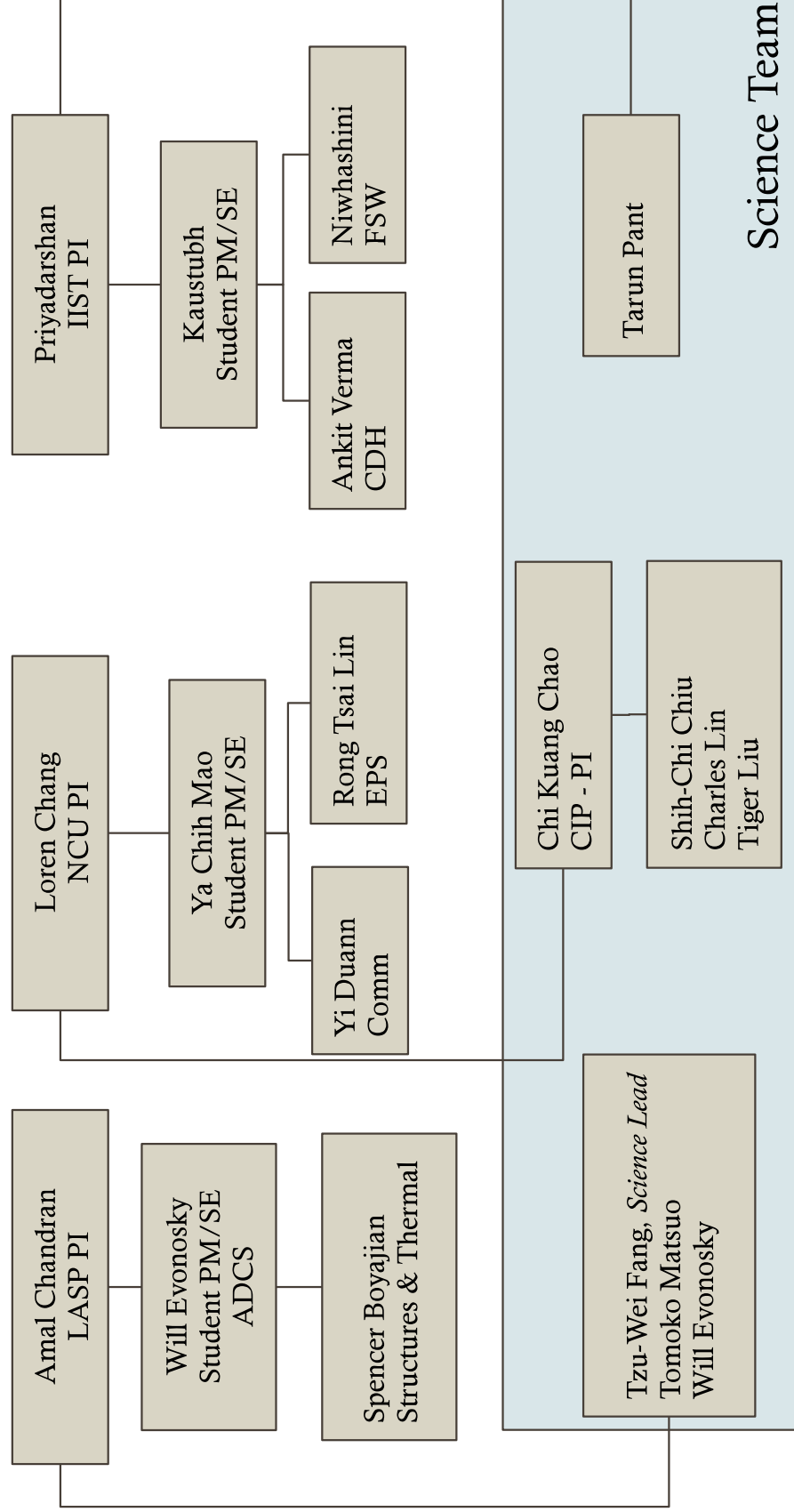
**INSPIRESAT-2/IDEASSAT
Funded by NSPO Taiwan
Launch in 2020**

**INSPIRESAT-3/CSOL
Funded by NTU Singapore, CU Boulder, IIST/ISRO,
Launch 2021**

INSPIRESat-1 Breakdown of Responsibilities



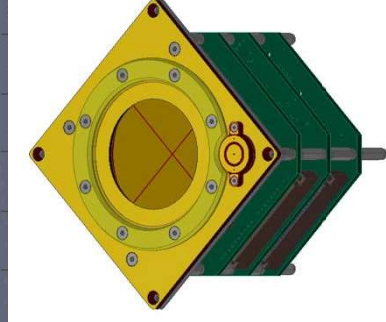
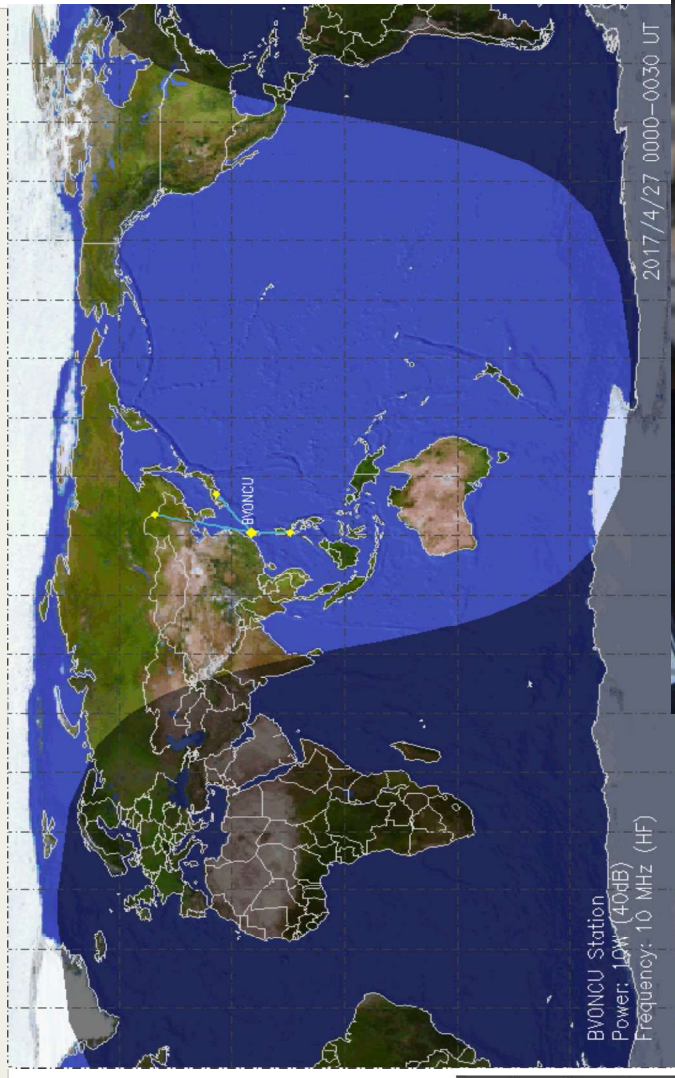
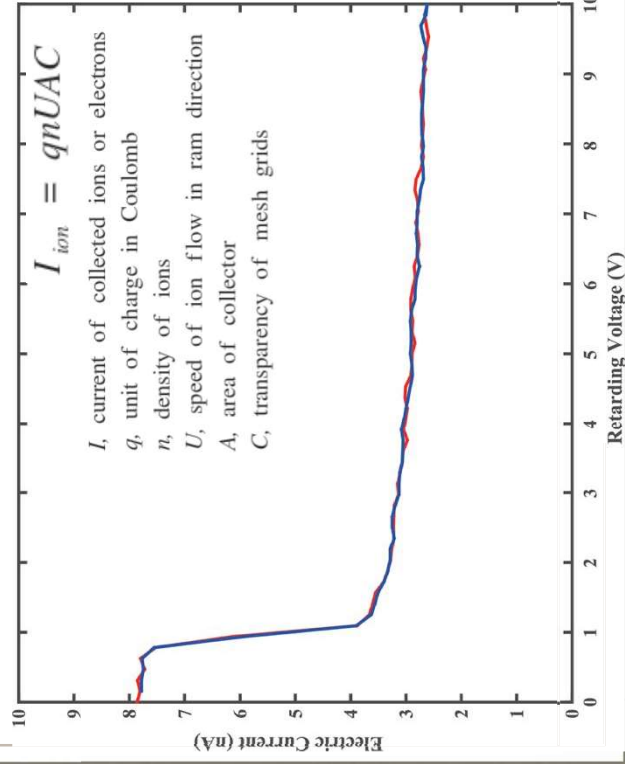
INSPIRESat-1 Organizational Structure



INSPIRESat-1 Science

Objectives

1. Observe occurrence and evolution of equatorial Plasma bubbles.
2. Observe Midnight Temperature Maximum features.
3. Observe Ion/electron temperatures, density and velocities

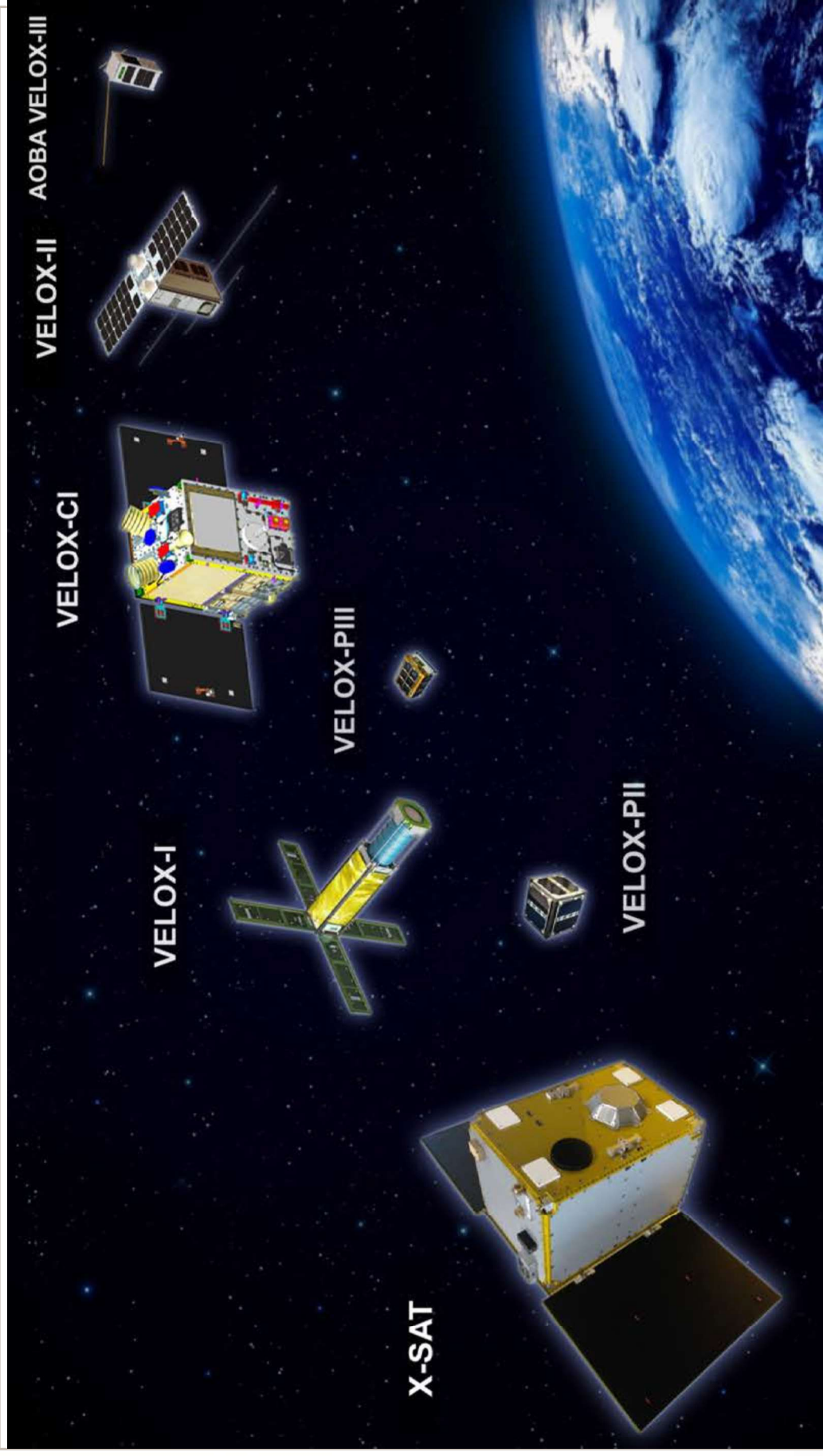


INSPIRESat-1, IDEASat (INSPIRESat-2) Mission Design

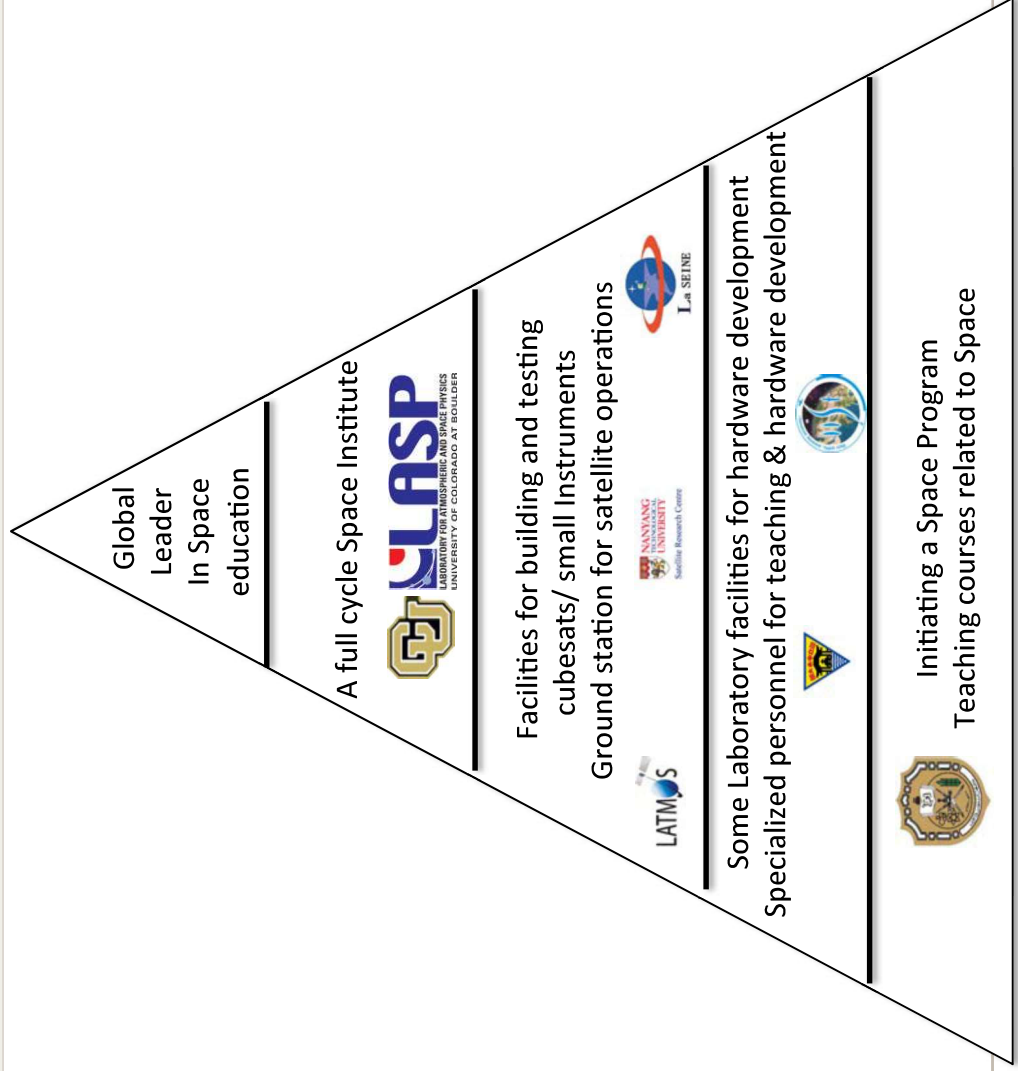


Why INSPIRE ?

A case study : INSPIRE is helping NTU SaRC translate small satellite technology capability to LEO based remote sensing, space sciences & student education



Why INSPIRE ?



A new paradigm for student education



A transformative student learning experience



First place at the AIAA Mission Idea Contest at the University Space Engineering Consortium meeting in Rome in December 2017

NCU Space Science



What the public thinks we do.



What our parents think about us.



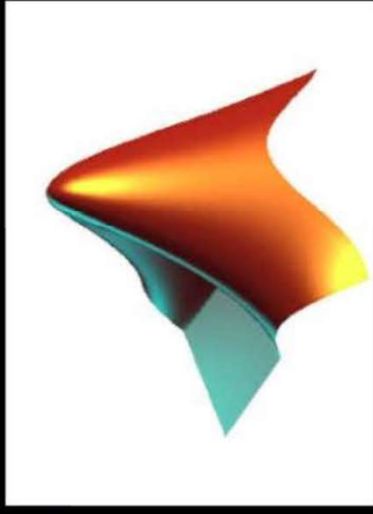
What Prof. L. thinks about us.



What Prof. G thinks about us.



What I think we should be doing.



What we are actually doing.



NCU SPACE SCIENCE
2017 INSPIRE Workshop

