



Opening Remarks: Bursting the Space Bubble for Idea/Fund Generation in Emerging Countries



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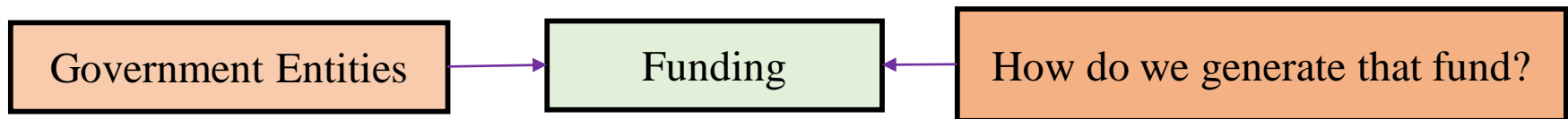
BIRDS3's NepaliSat-1 Story: April 2017



2022-03-20

Status of Projects and Funding Sources

PROJECT	SATELLITE	SIZE	STAKEHOLDER	STATUS	COST
BIRDS-3	NEPALISAT-1	1U	NAST,KYUTECH	EOL	\$175K
-	SANOSAT-1	0.25U	ORION SPACE	BOL	\$90K
DREAM PROJECT	DANFE MSN	3U	NAST,ANTARIKCHYA INSTED	FM	\$60K+
	MUNAL	1U	NAST,ANTARIKCHYA INSTEAD	MDR	\$250K+



EOL: End of Life

BOL: Beginning of Life

“Get Creative”

Corporate Social Responsibility Funds



बैंक अफ काठमाण्डू लिमिटेड
BANK OF KATHMANDU LTD.
— we make your life easier —



SanimaBank



CSR PROPOSAL

SATELLITE RESEARCH FELLOWSHIP

FOR
Global IME

PREPARED BY:
ANTARIKCHYA
PRATISTHAN NEPAL

[Reg No. 259147/077/078 PAN: 609968493]
[Kathmandu Nepal]
[+977-9869397707]
[info@antarikchya.org.np]

\$10,000 MAX

This CSR document contains all the details relevant to scope of work and costing for Satellite Research Fellowship

SPACE DAY CELEBRATION



Representative from **Sanima** as a panelist for discussions on finding private funds for space research/development in Nepal



ORGANIZATION REGISTRATION

MARCH 2021

APRIL 12, 2021



Danfè Space Mission (NepaliSat-2 Padyatri) Preliminary Design Review at Nepal Academy of Science and Technology (NAST)

SATELLITE TRAINING



JULY 5-12, 2021

Satellite (SastoCube) and electronics training at rural **Khotang** in collaboration with Dr. Mahabir Pun's National Innovation Center (NIC), NATCOM-UNESCO, KU Robotics Club and Kathford Eng. College

JULY-OCT 2021



NepaliSat-1 Ground Station (GS) repairs and operation by **Sanima Satellite Research Fellows**. NepaliSat-1 successfully operated for 28 months in space. Above is the first image taken from NAST after GS was repaired by fellows.



SATELLITE TESTING



Sanima Satellite Fellows tested their system in Bangalore, India before sitting down for **Critical Design Review** of Danfè Space Mission (NepaliSat-2 Padyatri). Now in **Flight Model** Stage of development.

OCT 2-15, 2021

AUG 2021



Establishment of **First Space Systems Laboratory** at Nepal Academy of Science and Technology (**SSL-NAST**). The lab is used as a base for our satellite fellows in Kathmandu and training new interns and trainees.

NOV 17, 2021



Official inauguration, press meet and **kickoff** of Space Systems Lab at Kathmandu University High School (**SSL-KUHS**) and **High School Satellite Constellation Project** (NepaliSat-2 Vidhyalaya). **Sanima banner placement done.**

SANIMA OUTREACH



Sanima's Financial Literacy Program at Kathmandu University High School. **Sanima bank's** representatives also got to observe and comment on **High School Satellite Team's progress.**

DEC 31, 2021

The **High School Satellite Team** completes **Satellite Bootcamp** on the final day of the year



RECURRING ACTIVITIES THROUGHOUT THE YEAR



GOV. OUTREACH

INDIVIDUAL REVIEWS

GS OPERATION

SATELLITE BOOTCAMP

Side Projects

INGO-NGO/Govt Grants/Non-Grants Funding



USAID
FROM THE AMERICAN PEOPLE

ICIMOD

ADB
VENTURES

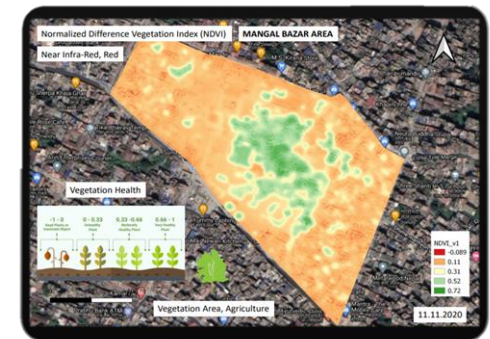


UNESCO
United Nations
Educational, Scientific and
Cultural Organization

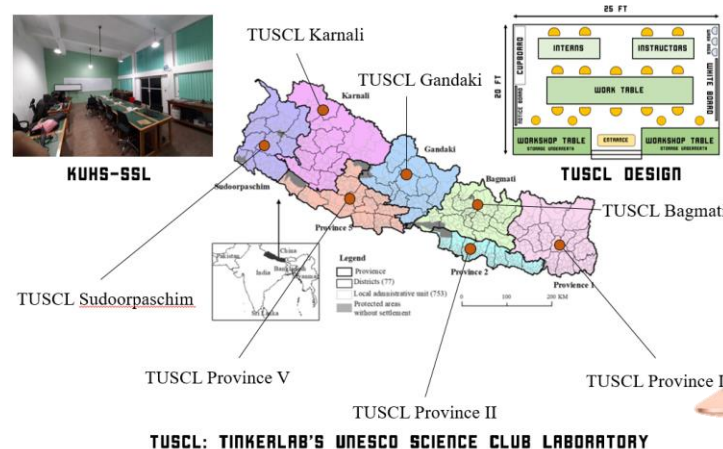
**THE
WORLD
BANK**

\$5000-\$1,000,000

**SATELLITE DATA
ANALYTICS**



GROUND SENSOR TERMINAL UNESCO SCIENCE CLUBS



Different Crowdfunding Approach

Launched: <https://www.patreon.com/antarikchya>



Bhumi Class



\$10

PER MONTH

Join

We are extremely grateful that you have given up two cups of coffee to support our satellite project and the team. The team sends a big, virtual, COVID-19 protocol-followed hug. Thank you. **Benefits** include:

- Top Secret Posts on Progress
- Monthly Activity Letter
- Ask Anything Submission Form

Chandra Class



\$100

PER MONTH

Join

Now we are talking! Your generous contribution will make an improved impact on our team's day to day activities including paying for rent, necessary equipments, components and parts used for satellite research and development. Pleased to have you onboard. **More Benefits** include:

- x1 Satellite Mission Patch
- x1 Actual Printed Circuit Board from a Sub-System (OBC, EPS, COM)*
- Your Name On Satellite (Inside)
- Virtual Attendance to All Satellite Reviews/Meets/Press
- Virtual Group Meet with the Team x1/month

Surya Class



\$1,000

PER MONTH

Join

Woh! Extremely generous contribution goes to look after our 10+ strong residential satellite fellows that work round-the-clock to make sure the students from four different high schools build their satellite properly, and build it on time. The team can't thank enough. **More added super Benefits** include:

- x1 Actual Satellite Replica
- 2N/3D at Dhulikhel, Nepal Lab/Farm Visit for x2 (Airport pickup)*
- Your Name on Satellite (Front Side)
- Your Name Beacon from Space
- First Release of All R&D Products (PaperSat, SastoCube)*
- Satellite Research Fellow Naming Rights
- Your Name in Every Press Release

SUPPORT THE PROJECT



PATREON



Product R&D and Manufacturing: **Kickstarter**

Releasing Soon: <https://www.kickstarter.com/profile/sastocube>

KICKSTARTER PLEDGE

01

SASTOCUBE PAPERSAT

SastoCube's version with paper and support rails. The paper can be painted or colored upon. Perfect for kids.

\$20



A small, green, cube-shaped satellite model with blue support rails. It has a red and white flag on the front and the word "PAPERSAT" printed on the sides.

02

SASTOCUBE DUMMY

SastoCube's Dummy showpiece model with your name or logo stamped on it. Can be placed on tables, cupboard, trophy cabinets, anywhere. The replica is inspired by NepalSat-1, Nepal's first satellite.

\$99



A green, cube-shaped satellite model with a black screen on the front. It has a red and white flag on the side and the text "Name/Logo Here" on the front.

03

SASTOCUBE SATELLITE

The complete package with all the sensors and systems intact. Come along with a Ground Station. Plug and Play.

\$699



A green, cube-shaped satellite model with a black screen on the front. It has a red and white flag on the side and the word "SASTOCUBE" on the front.

04

SASTOCUBE SAFARI

The complete package with everything disassembled. A complete DIY pack where everything has to be assembled on your own. The assembly manual will be your guide.

\$699



A green, cube-shaped satellite model with a black screen on the front. It has a red and white flag on the side and the word "SASTOCUBE" on the front.

100% nepal

MANUFACTURED AND EXPORTED FROM MT. EVEREST

SASTOCUBE

सस्तो क्यूब

लौ हेर्नु होस्, निकट भविष्यमा नेपालका स्कूल, कलेज र त्यहाँ पढ्ने विद्यार्थीहरूको लागि सस्तो क्युब (SASTO CUBE) भन्ने शैक्षिक सामग्री बजारमा आउँदछ।

के हो त्यो सस्तो क्युब (SASTO CUBE) भन्ने चिज ??

यो चिज अन्तरीक्षमा पठाईने भू-उपग्रह अर्थात् स्प्याटेलाइटको हुबहु नमुना हो। यो सामग्री ६ कक्षा देखि माथिका विज्ञान विषयमा चाख हुने विद्यार्थीहरूले स्प्याटेलाइट कसरी बनाउने र यसले कसरी काम गर्छ भन्ने सिक्नको लागि प्रयोग गर्न सक्छन्। यो SASTOCUBE को प्रोटोटाइप बनाउने र विकास गर्ने अनुसन्धानको काममा राष्ट्रिय आविष्कार केन्द्रले पूर्ण रुपमा सहयोग गरेको थियो।

यो सस्तो क्युब भनेको विद्यार्थीहरूले सिकने शैक्षिक सामग्री हो। यसलाई विद्यार्थीहरूले खोल खाल गर्न, जोडजाट गर्न र टेस्ट गर्न सक्छन्। यो संग यसलाई कसरी खोल्ने, कसरी जोड्ने र कसरी टेस्ट गर्ने भन्ने कुराको बिस्तृत निर्देशिका सहित आउँछ।

यसलाई CUBESAT पनि भन्दछन्। विकसित देशहरूले अनुसन्धानको लागि यस्ता हजारौं CUBESAT हरू अन्तरीक्षमा पठाई रहेका छन्। नेपाल सरकारको सहयोगमा Abhas Maskey भाइको टोलीले बनाएको CUBESAT लाई NEPALSAT-1 भन्ने नाम दिएर सन् २०१९ को अप्रिल महिनामा अन्तरीक्षमा पठाएको थियो। यो स्प्याटेलाइटले २८ महिना सम्म काम गरेर पृथ्वीमा झरेको थियो। यो नै नेपालको पहिलो स्प्याटेलाइट थियो। यो SASTOCUBE चाहि त्यहि स्प्याटेलाइटको ठपाकै अर्थात् हुबहु नमुना हो।

भाइहरूले यो SASTOCUBE लाई नेपाल र अमेरिका, जापान, युरोप, अस्ट्रेलिया जस्ता विकसित मुलुकहरूको विद्यालयहरू लाई शैक्षिक सामग्रीको रुपमा बेच्ने लक्ष्य राखेका छन्। त्यसैले विदेशमा बस्नु हुने नेपालीहरूले आफ्नो छात्राछारीको लागि किनेर जन्म दिनको उपहार दिन पनि सक्नु हुनेछ। हाललाई यसको मूल्य ६०० डलर जति परेको छ तर धेरै मात्रामा उत्पादन गर्यो भने मूल्य धेरै कम हुनेछ। यो सामग्रीको विकास गर्न भाइहरू संग सम्पर्क गर्न चाहनेले फेसबुक पेज <https://www.facebook.com/antarikchya> मा गएर हेर्नु होला र Like पनि गरि दिनु होला।

नोट: नेपालका प्रतिभाशाली युवाहरूले गरेको यो प्रयासलाई नकारात्मक तरिकाले 'यस्तो स्प्याटेलाइट बनाएर के काम?' चर्चामा जाने पो बनाउनु पर्छ' भन्ने जस्ता हावादारी कमेन्टहरू गर्ने विद्वानहरूले राम्रो संग सोच्नु होला र नउठाउनु होला। नेपालमा पनि बिस्तारै अन्तरीक्षयानहरू बनाउने भाई बहिनीहरू आउदैछन्। धन्यवाद 🙏🙏🙏



Branding/Advertisement (Pre-Product Launch)

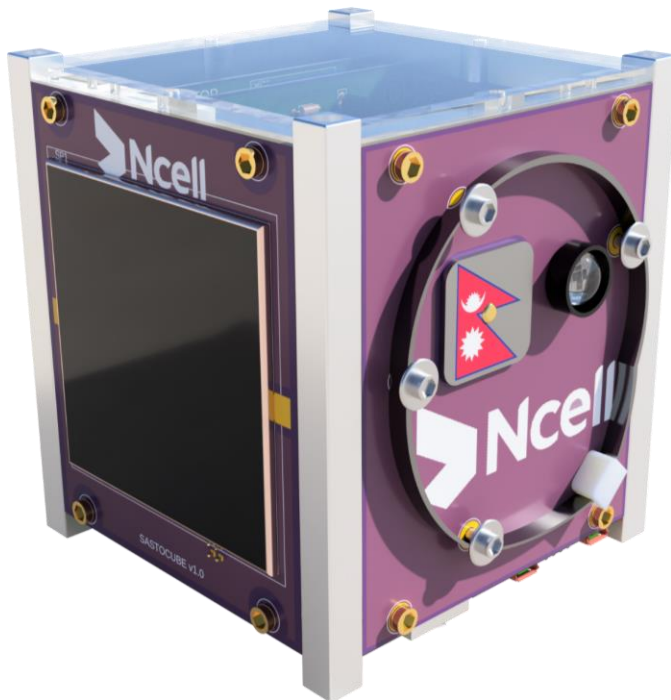


Video: <https://youtu.be/3wGPLBibgAA>

Post:

<https://www.facebook.com/mahabir.pun/posts/10159965348915479>

Branding/Advertisement Option (Pending)



Reducing Costs by Collaboration



SASTOCUBE



ANTARIKCHYA

TINKER
LAB

UNDERGOING

Grades 3-7



PaperSat Space Arts Program

Grades 6-10



Tinkerlab S-PBL
Electronics Lab Program



PILOTING

Grades 7-12



SastoCube Satellite Program

UNDERGOING

Grades 10-12



High School Satellite Project



PILOTING

NEXT GENERATION SPACE TECH ENGAGEMENT PROGRAMS

Antarikchya's Colab Infrastructure



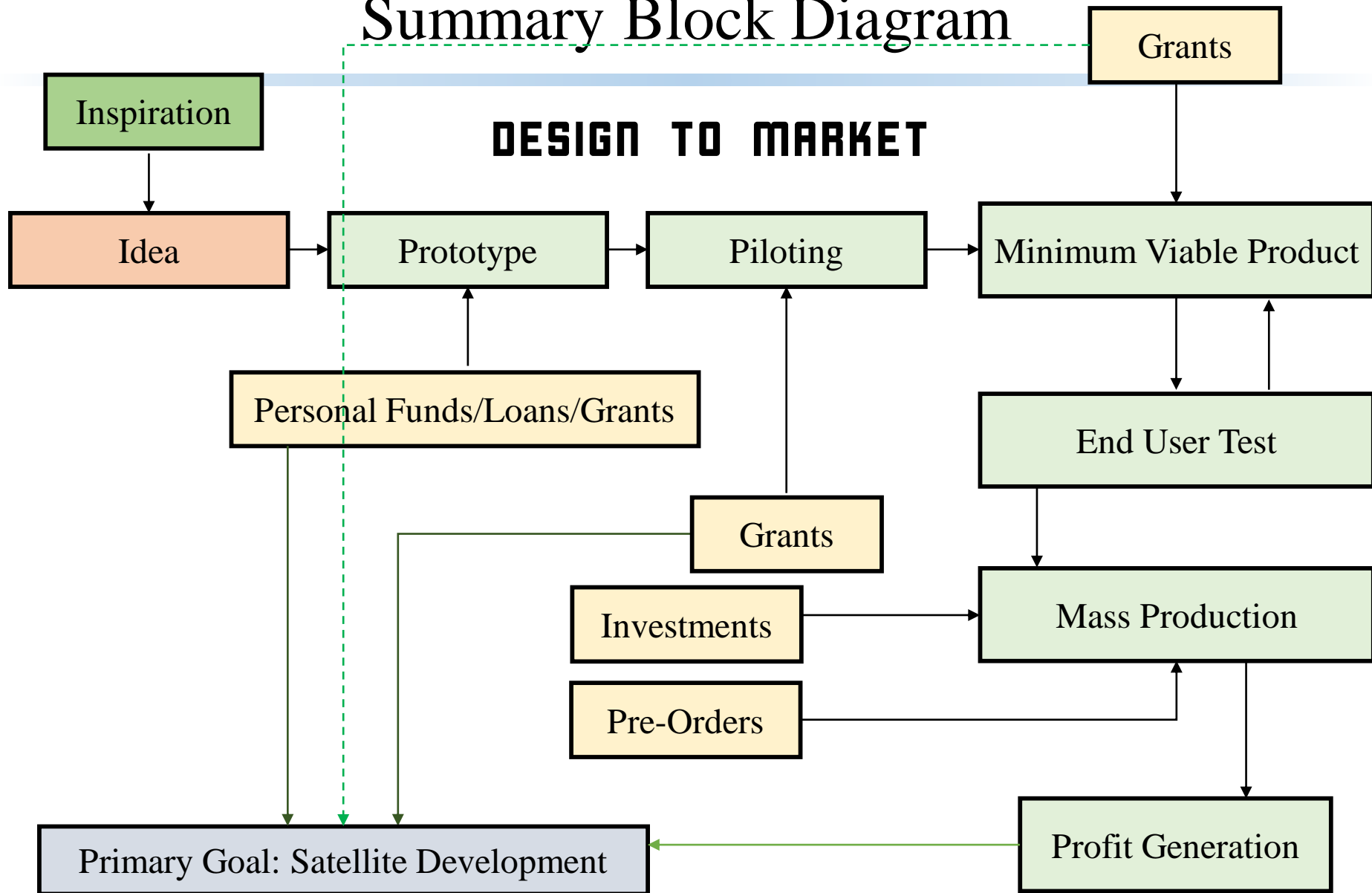
**KATHMANDU UNIVERSITY HIGH SCHOOL
SPACE SYSTEMS LABORATORY, DHULIKHEL/PANAUTI**



**NEPAL ACADEMY OF SCIENCE AND TECHNOLOGY
SPACE SYSTEMS LABORATORY, LALITPUR**



Summary Block Diagram





Thank You

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