LoRa Payload – Antarikchya Pratisthan Nepal







PHI-I Awardee Antarikchya Pratisthan Nepal (APN)

Presented By: Trishna Shrestha





Space Foundation Nepal
Non Profit Organization Founded in 2021, Dr. Abhas Maskey



"Vision 2050: a vision to launch Nepal's First Astronaut in Space by 2050"







GS Operation of BIRDS-3 and BIRDS-4

Antarikchya Pratisthan Nepal



"Train space engineers and R&D in space technology in Nepal"

- 8 Senior Engineers
- 9 High School Students
- 13 interns [Undergrads, Trainee]



Next Generation Space Activity





TINKER L-**/** B

Grade 3-7



PaperSat Art Program

Grade 6-10



Tinker Lab S-PBL Electronics Lab Program

Grade 7-12



SastoCube Satellite Program

Grade 11-12



Nepal's 1st High School CubeSat









Danfe Space Mission











 Design, and build a mission payload for a 3U CubeSat, Multi Payload CubeSat Platform (MPCP), to be launched within 2023

3U Satellite, INSTED Thailand







Picture for Reference only









Source: Aalto-1, multi-payload CubeSat: Design, integration and launch

KITSUNE GST Installation for Early Flood Warning

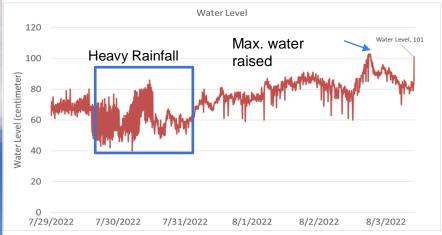


- Ground Sensor Terminal (GST) for KITSUNE Store and Forward mission
- Installed in Melamchi River
- Handover to Melamchi
 Municipality





GST Melamchi River Data



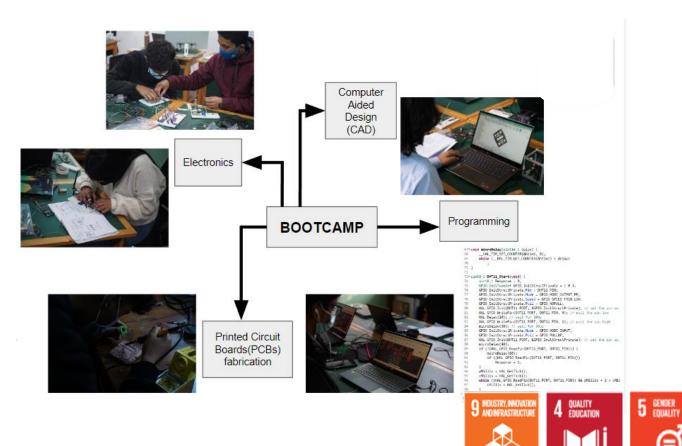


High School Satellite: MUNAL



9 High School Students builds 1U CubeSat Munal

• Mission: Dual AI RGB and NIR Camera, Inhouse COM/OBC Demo.



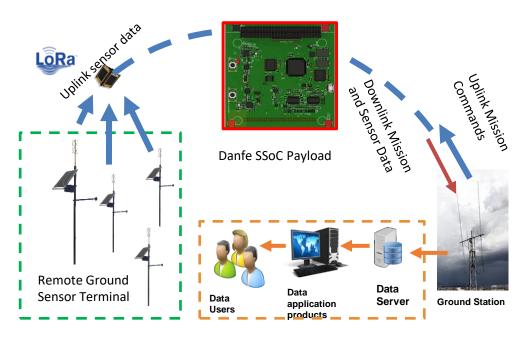


PHI-I Payload

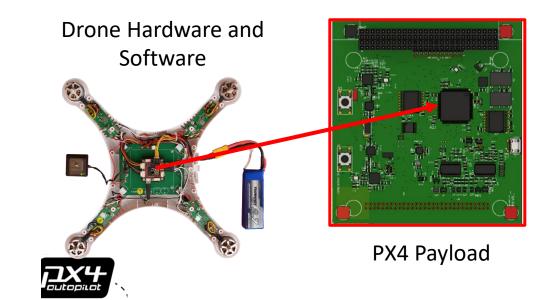


- Nepal's LoRa Payload Mission
- Integrated Bus System for CubeSat

CubeSat Constellation in Low Earth Orbit



☐ Satellite System-on-Chip Demonstration Mission



PX4 Demonstration Mission









"Design a payload for CubeSat which contributes in nextgeneration capacity building for in-house satellite development in Nepal"

Science, Technology, Innovation and Capacity-Building in Nepal



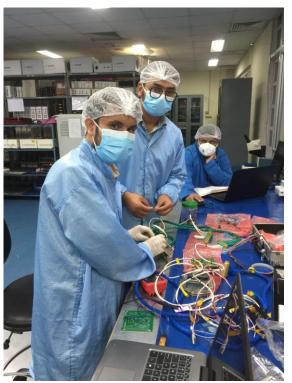
"Train and develop space engineers in Nepal"







Mentoring High School Students



Satellite Research Fellow at Satellite Testing Lab at India



Satellite Testing at India



THANK YOU



