

This is an abstract template for the 6th Mission Idea Contest.

Limit to 5 pages, single spacing, 11 pt font, in English. A4 with 2cm margins on all sides. Number all pages. (Please delete the parts written in different color)

Title:

Point of Contact (POC)

Email:

Co-authors:

Organization:

Please check the brackets and delete if there is no need of checking.

() We apply for Student Prize.

() Please keep our idea confidential if we are not selected as finalist/semi-finalist.

Platform :

Please indicate which platform you will use for your mission, ICE Cubes or iSEEP?

Need

In 2-3 sentences describe the fundamental need (humanitarian, business, scientific, etc.) your mission idea addresses.

Mission Objectives

List and describe no more than 5 mission objectives and prioritize them. These should be quantitative in nature and serve as overall measures of effectiveness for the mission.

Sustainable Development Goal(s):

Please indicate which sustainable development goal(s) your mission can contribute to.

<https://sustainabledevelopment.un.org/?menu=1300>

Brief description of the experimental concept and setup.

In 2-3 sentences describe the overall concept and setup for your experiment. Description of the expected deliverables (e.g. returned samples, data amount, data rate, others). What outcome will you expect in the end?

Space Segment Description

Describe the conceptual design for your mission system(s) for the space segment. Brief description of the type of hardware composing the experiment. List key specifications (e.g. mass, volume, peak and average power, link budget, etc.). Diagrams or simple CAD drawings are encouraged.

Concept of Operations

List and describe key mission elements for operations and describe their primary interfaces. Use diagrams and tables as appropriate. Describe the experiment process and your mission profile (mission duration, operations start, operations end, timeline, Describe the intended interaction from the ground. Specific operational needs.

Key Performance Parameters

List and explain the rationale for 3-5 key performance parameters that enable the successful conduct of your mission idea.

Implementation Plan

Provide a reasonable estimate of total life cycle cost to include design, development, assembly, integration, testing, launch, operations and return (if necessary). List any facilities or other infrastructure to be used or needed. Describe the project organization. Present a top-level project schedule starting from authority to proceed.

Risk

List and describe the top 5 project risks (technical or programmatic).

References

List any technical references for your idea