

TANZANIA AND COTE D'IVOIRE KIBOCUBE 8TH ROUND PROJECT

KiboCUBE 8TH ROUND WINNERS



DAR ES SALAAM INSTITUTE
OF TECHNOLOGY



INSTITUT NATIONAL POLYTECHNIQUE
FELIX HOUPHOUET-BOIGNY

Project Introduction

Project Statement :

The project aimed to address existing challenges for protection of Game Reserve and other areas, biodiversity conservation and climate change.

Project Objective :

The project will demonstrate the use of 1U CubeSat in tracking boundary beacons, collecting environmental data and earth images

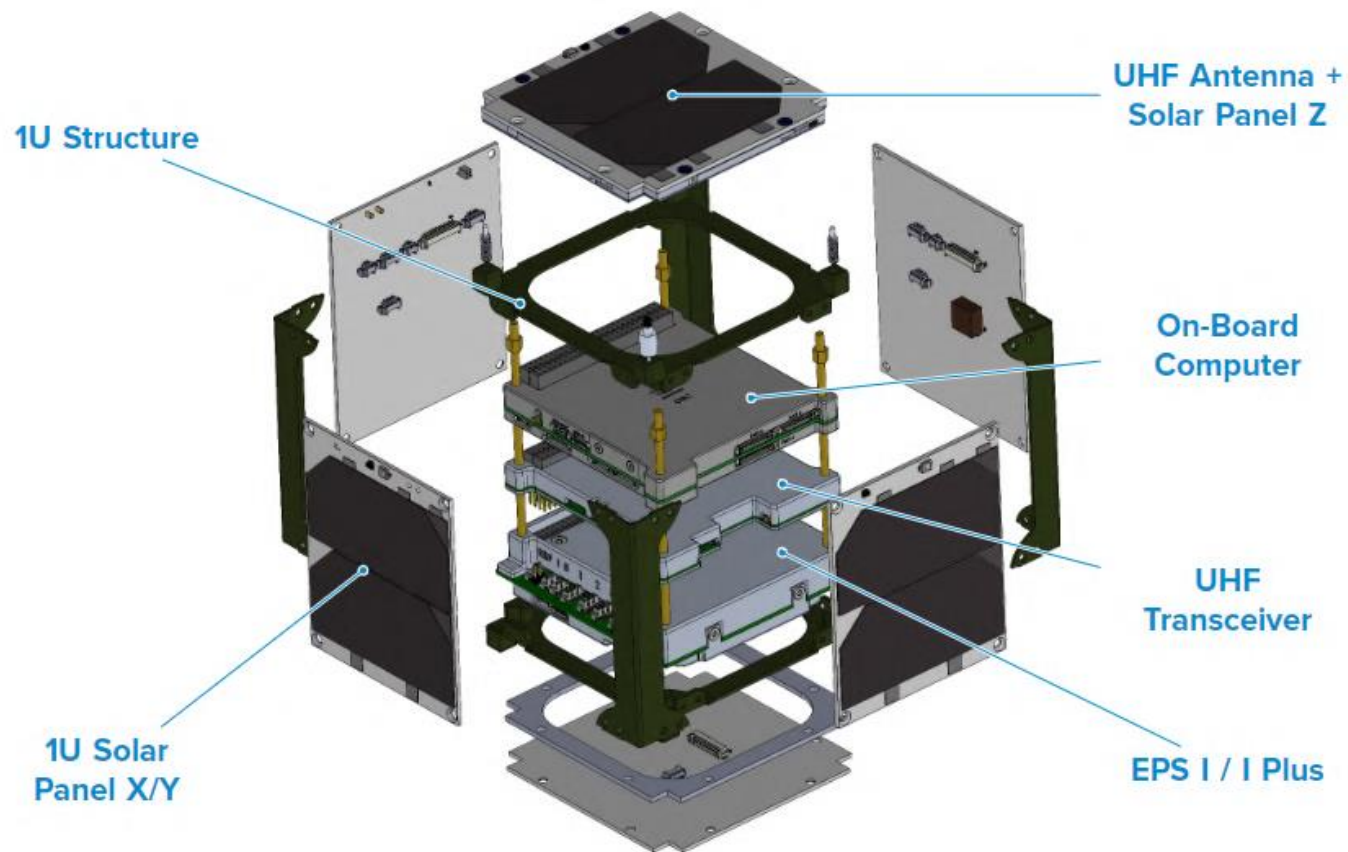
1U CubeSat – TanSat-1 shall use the SDR- LoRa Satellite module to collect boundary position and environmental data from IoT sensors in remote areas in TANZANIA and COTE D'IVOIRE

TANZANIA AND COTE D'IVOIRE PROJECT MISSION

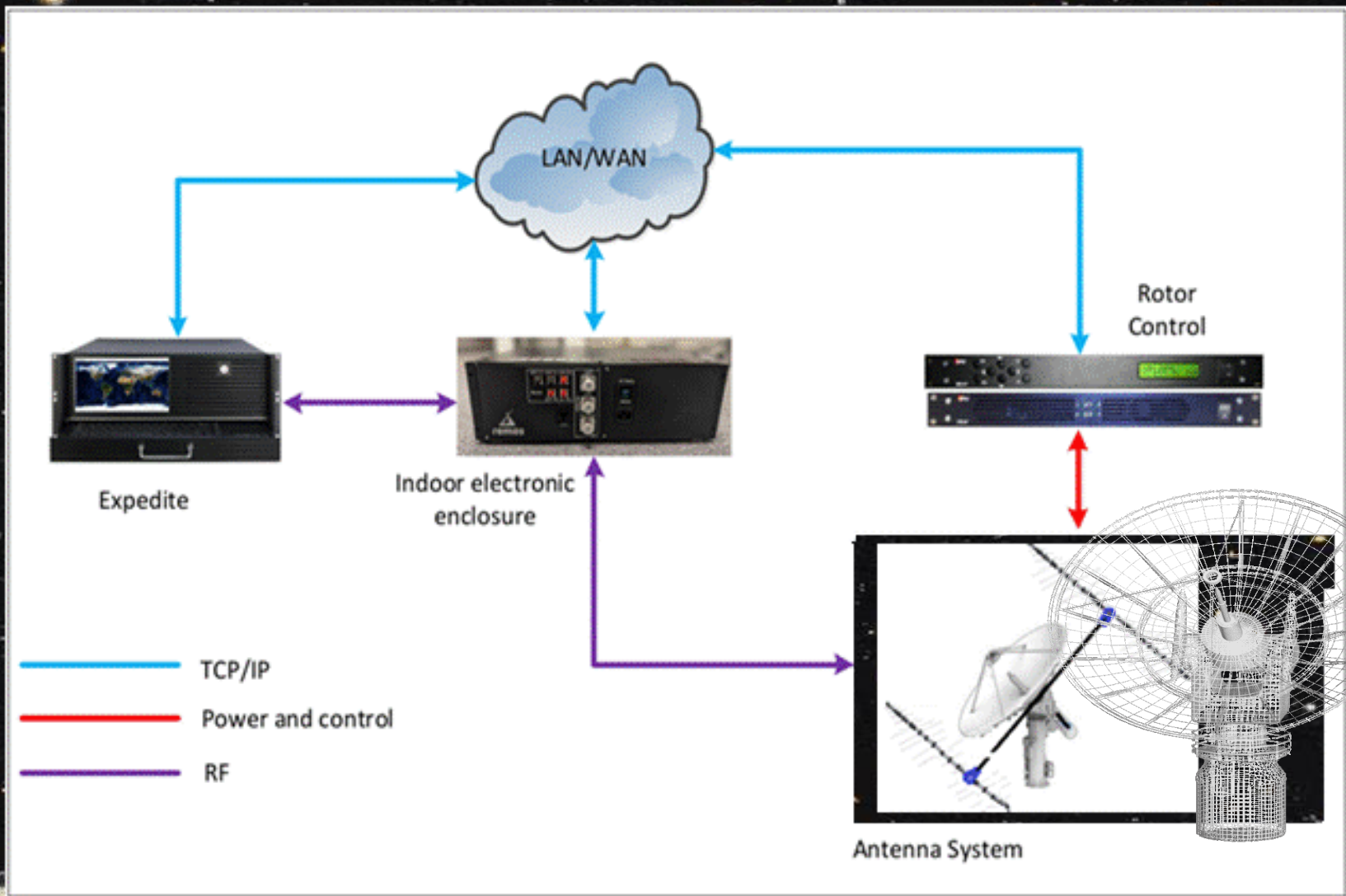
The project aimed to address existing challenges for protection of Game Reserve and other areas, biodiversity conservation and climate change.

The project will demonstrate the use of 1U CubeSat in tracking boundary beacons, collecting environmental data and earth images

Structure Overview



GROUND STATION DESIGN DONE

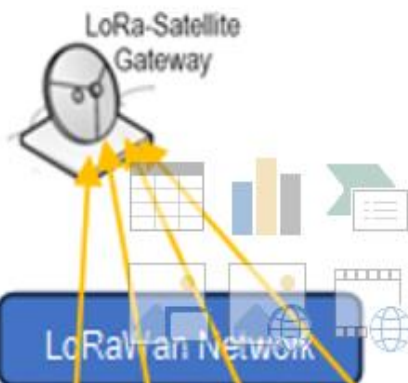


Background of IoT SDR-LoRa satellites



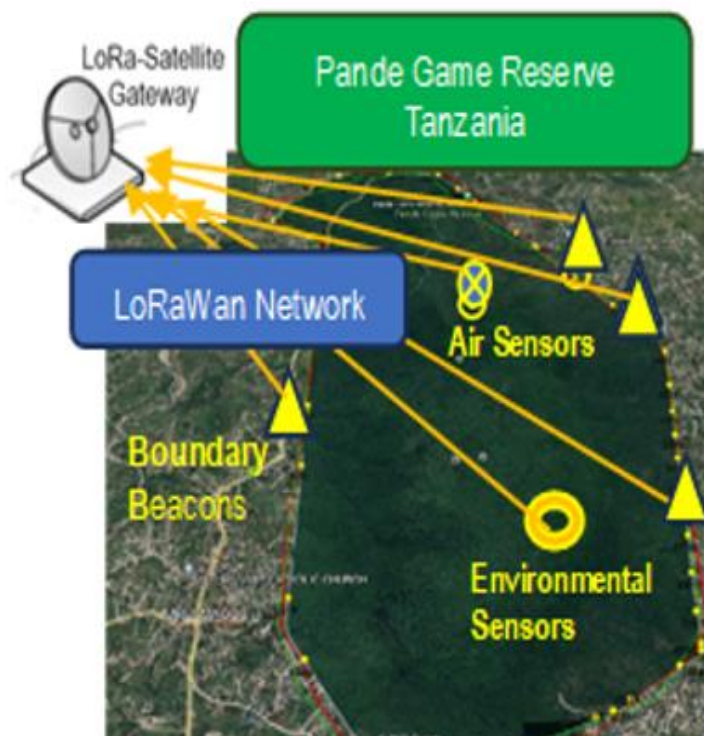
- Click to add text

Ivory Coast Ground Station



Environmental
Sensors

Tanzania Ground Station



LoRaWAN Network

Air Sensors

Boundary
Beacons

Environmental
Sensors

The image features a central graphic of two hands shaking over a globe. The hands are rendered in a glowing, fiery orange and red style, suggesting a strong partnership or agreement. The globe is depicted with a grid of latitude and longitude lines. The entire scene is set against a dark, starry space background with various celestial bodies and galaxies visible. The text "THANKS" is prominently displayed in red, bold, italicized capital letters across the upper part of the handshake.

THANKS

FOR LISTENING