

# Science Activity

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# Live Plant Metadata System

I would like to invent a system, which empowers us to know the real time status of plant sizes, harvest period and nearby location information even in large forests and basins like the Amazon Basin.



# Materials Required

- ▶ Sensors
- ▶ Receivers
- ▶ Cables
- ▶ Servers
- ▶ Aerial Informant Devices (Drones)
- ▶ Management and Organising Software (AI)



# Sustainability

- ▶ Small and sturdy sensor design, ensure durability and less waste.
- ▶ Cables and connectors can be reused easily.
- ▶ Drones use electricity and are rechargeable, hence, reducing the carbon footprint.
- ▶ Servers or the storage devices have virtually unlimited lifespan.
- ▶ The Software is not a physical entity, hence, can be changed, used or transferred infinite times.



# Motivation

The illegal and extensive cutting of Flora is a practice that has been going on from a long time because, the authorities are not able to respond in time. This is due to lack of information and high amount information transfer time. The system aims at decreasing the time taken to gain information, ultimately making it instant, and also increasing the different types of data, which will get converted into a easy to understand information database.

