A NATIONAL LEVEL TECHNO-MANAGEMENT FEST

# AARUUSH'21

...rising in the spirit of innovation

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# TEAM DETAILS:

| TEAM NAME | HEX-RAY |
|---|---|
| TEAM MEMBERS | SATHISH V, SRI BOUSHALI M, YAMUNA N, RAJESHWARAN J, KARTHICK SREENIVASAN V |
| GRADUATING YEAR | 2022 |
| COLLEGE NAME | BANNARI AMMAN INSTITUTE OF TECHNOLOGY, TAMIL NADU, INDIA |

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# PROBLEM STATEMENT: DRONES AND SATELLITES FOR URBAN DEVELOPMENT

- Many of the cities in the world are undergoing a change over or completely change over to smart and metropolitan cities whereas there are also areas which are under the urbanisation rate.

- The main theme of the project is to make a change over in urban areas where there is scarcity in basic needs such as water, electricity, private spaces, etc.

- We the Developers should be responsible to bring out a change that will be helpful for one's daily life.

# FLOW CHART:
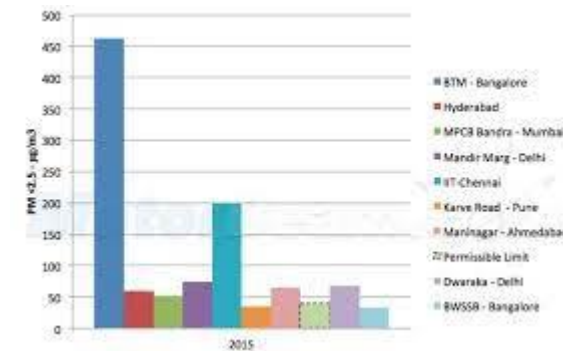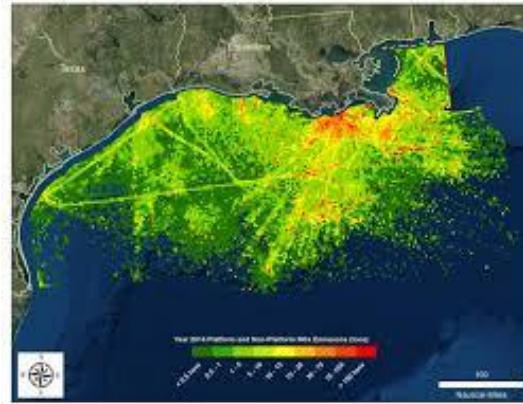
# NOVELTY ON OUR SOLUTION:

The water level, the air quality, sewage system in particular areas cannot be tracked by the people manually, whereas multiple drones and satellites can keep in track on those parameters automatically at regular intervals with negligible man power. The application which we will develop gathers all those data and process it into useful information representing in the form of graphs (the water level, the air quality and the waste management system), this application is open source and can be used by both industrial persons and normal citizens so that, they can keep in track with their area's basic requirements level and further they can acquire help from the team the level is below the particular limit.

# FUTURE DEVELOPMENTS:

- We have to create the front end and back end of our idea.
- Coordination of drones and satellites with the application.
- Testing of application.
- Analysis and rectifications.

# SUBMISSION LINKS

# REFERENCE:

These are some of the references we used for gaining information,

- https://play.google.com/store/apps/details?id=au.gov.nsw.water.waterlive&hl=en_IN&gl=US
- https://sedac.ciesin.columbia.edu/theme/urban
- https://eo-toolkit-guo-un-habitat.opendata.arcgis.com/
- https://earthdata.nasa.gov/earth-observation-data/near-real-time/hazards-and-disasters/air-quality