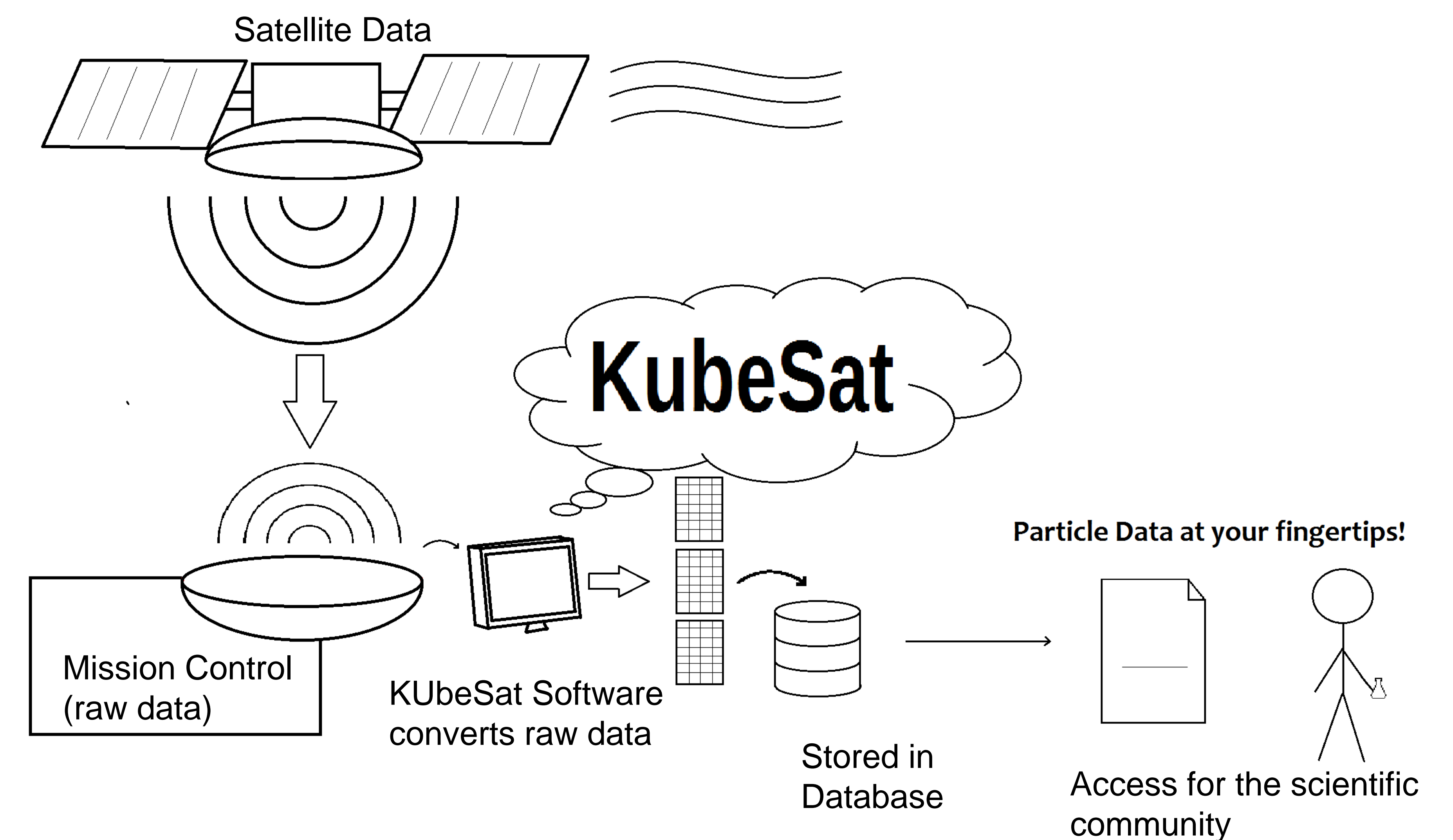




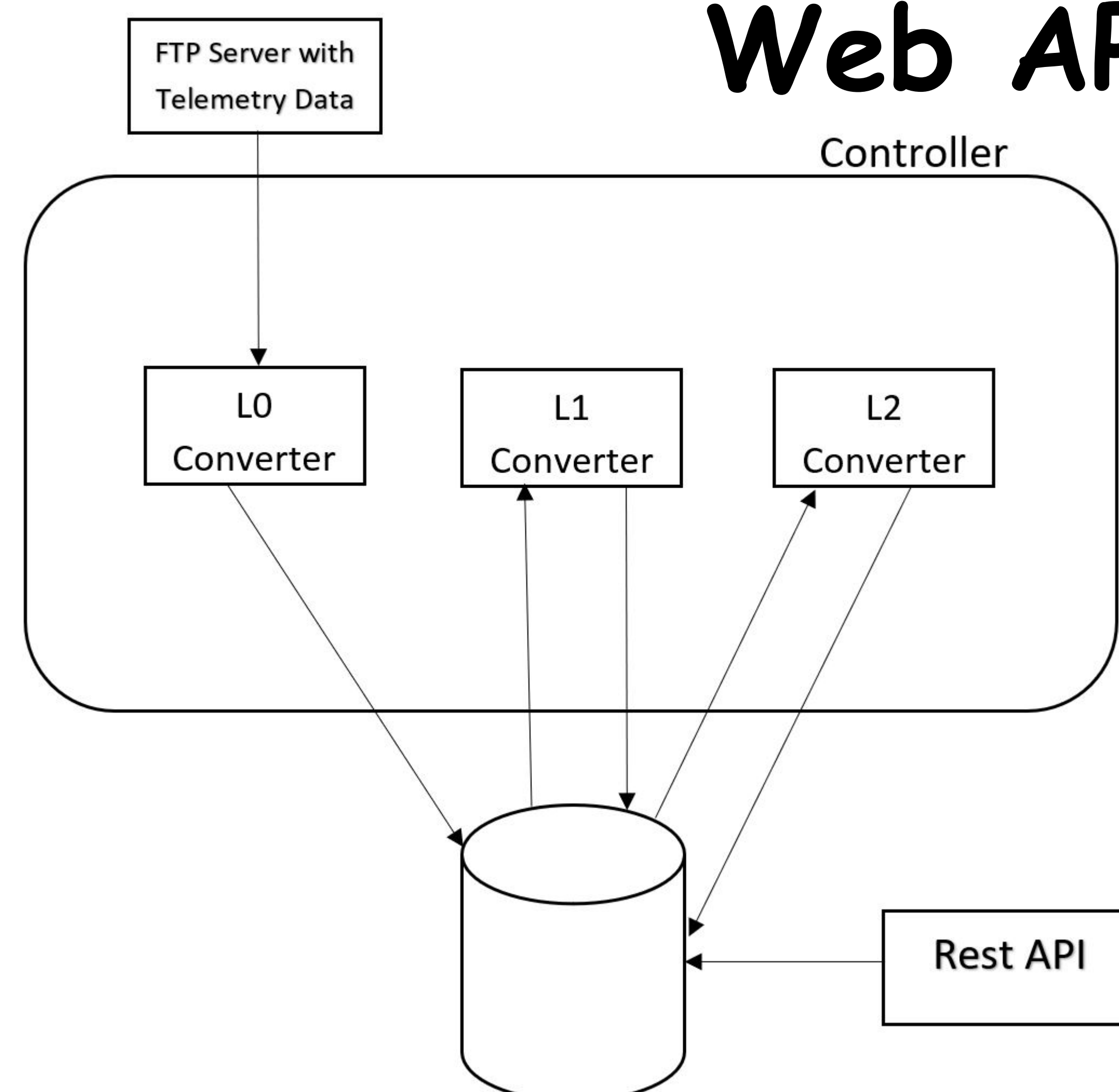
KUbeSat (Team 9)

Description & Purpose

- Solar weather can have profound impact on life on Earth. The KUbeSat satellite is being launched to help record particle/energy information to study solar weather events
- Our software is a data pipeline that takes raw bytes and converts and translates it into more useful forms.
- This data is then made publicly accessible and searchable by the scientific community
- This data can then be used to better understand the effects of solar events on Earth



Design: A Data Pipeline and Web API



- Converted data stored in database
- Output from one level is used as input to the next level
- L0 - Count data
- L1 - Rate data
- L2 - Flux/intensity data
- Data products made available to public through Rest API

Ethical & Intellectual Property Issues

Ethics Concerns

- Handling of raw satellite data to be used in research must not be manipulated
- Access to company property, network, and servers requires extreme care
- Results used by science community must be accurate

Intellectual Property

- KUbeSat relies on various NASA and FTECS source codes