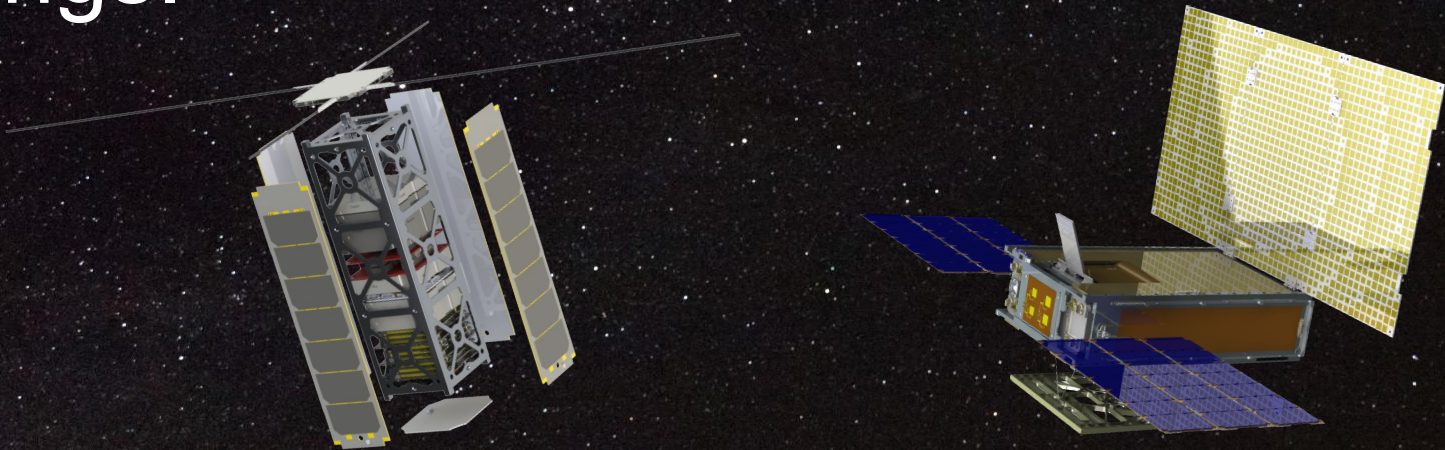# MetaSat

An open, collaboratively-developed schema to support the future of space exploration.
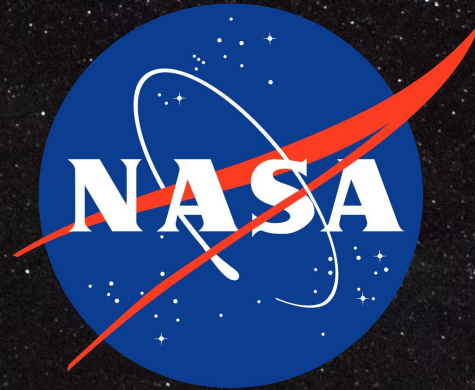
A metadata schema is:

a consistent and precise way to describe things.

MetaSat aims to:

link data, software, and hardware from small satellite missions

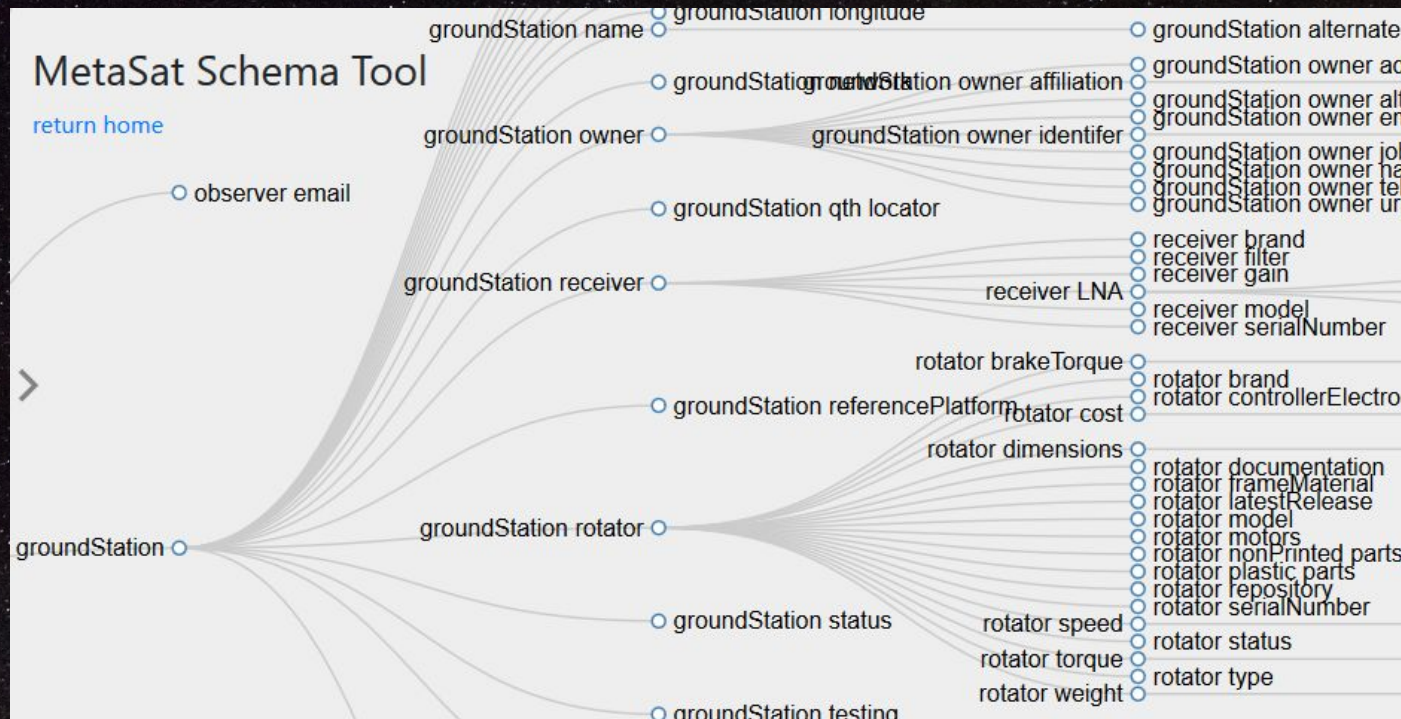# Make your own schema

How would you best:

1. Organize / Describe an **Observation**?
2. Organize / Describe a **Mission**?
3. Organize / Describe **Mission People**?
4. Organize / Describe **Network Ground Station**?
5. Organize / Describe **Satellite Communication Systems**?
6. Organize / Describe **Satellite Navigation Systems**?
7. Organize / Describe **Satellite Payloads**, **Instruments**, or **Hardware**?
8. Organize / Describe **Software**?
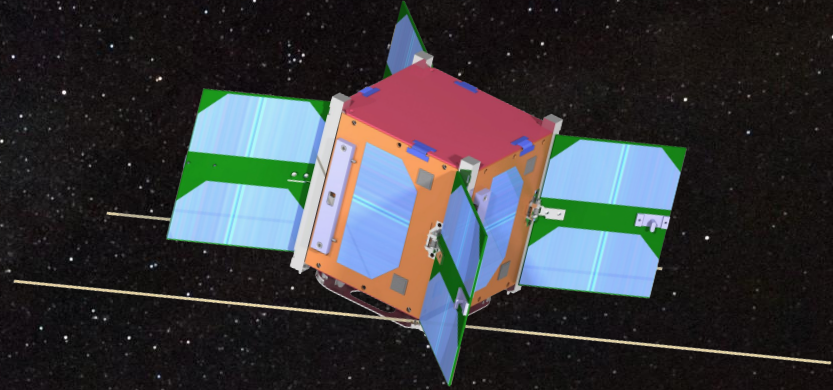
MetaSat Schema Sorting Tool

Live Demo: https://metasat.schema.space

JSON-LD Example

Initial releases coming soon to
GitLab Repository:

https://gitlab.com/metasat/schema-drafts

GitLab

```json
{
    "@context": {
        "schema": "https://schema.org/",
        "@vocab": "https://schema.org/",
        "LaunchDate": "schema:startDate",
        "LaunchSite": "schema:Place",
        "LaunchVehicle": "schema:Vehicle",
        "LSP": "schema:provider"
    },
    "@id": "https://a-examplelaunch.uri",
    "LaunchDate": "2019-10-14",
    "LaunchSite": "Pacific Spaceport Complex",
    "LaunchVehicle": "Atlas V 401",
    "LSP": {
        "@id": "https://b-exampleLSP.uri",
        "name": "Rocket Lab Limited",
        "alternateName": "Rocket Lab USA, Inc",
        "address": {
            "@id": "https://c-address.uri",
            "@type": "PostalAddress",
            "streetAddress": "14520 Delta Ln #101",
            "postOfficeBoxNumber": "000",
            "addressLocality": "Huntington Beach",
            "addressRegion": "CA",
            "postalCode": "92647",
            "addressCountry": "USA"
        },
        "email": "www@example.com",
        "telephone": "717-465-5737",
        "url": {
            "@id": "https://www.rocketlabusa.com/",
            "sameAs": ["https://example1.com","https://example2.com"]}
        }
}
```

Contact Us!

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https://schema.space

https://gitlab.com/metasat

https://riot.im/app/#/room/#metasat:matrix.org

CENTER FOR **ASTROPHYSICS**

HARVARD & SMITHSONIAN