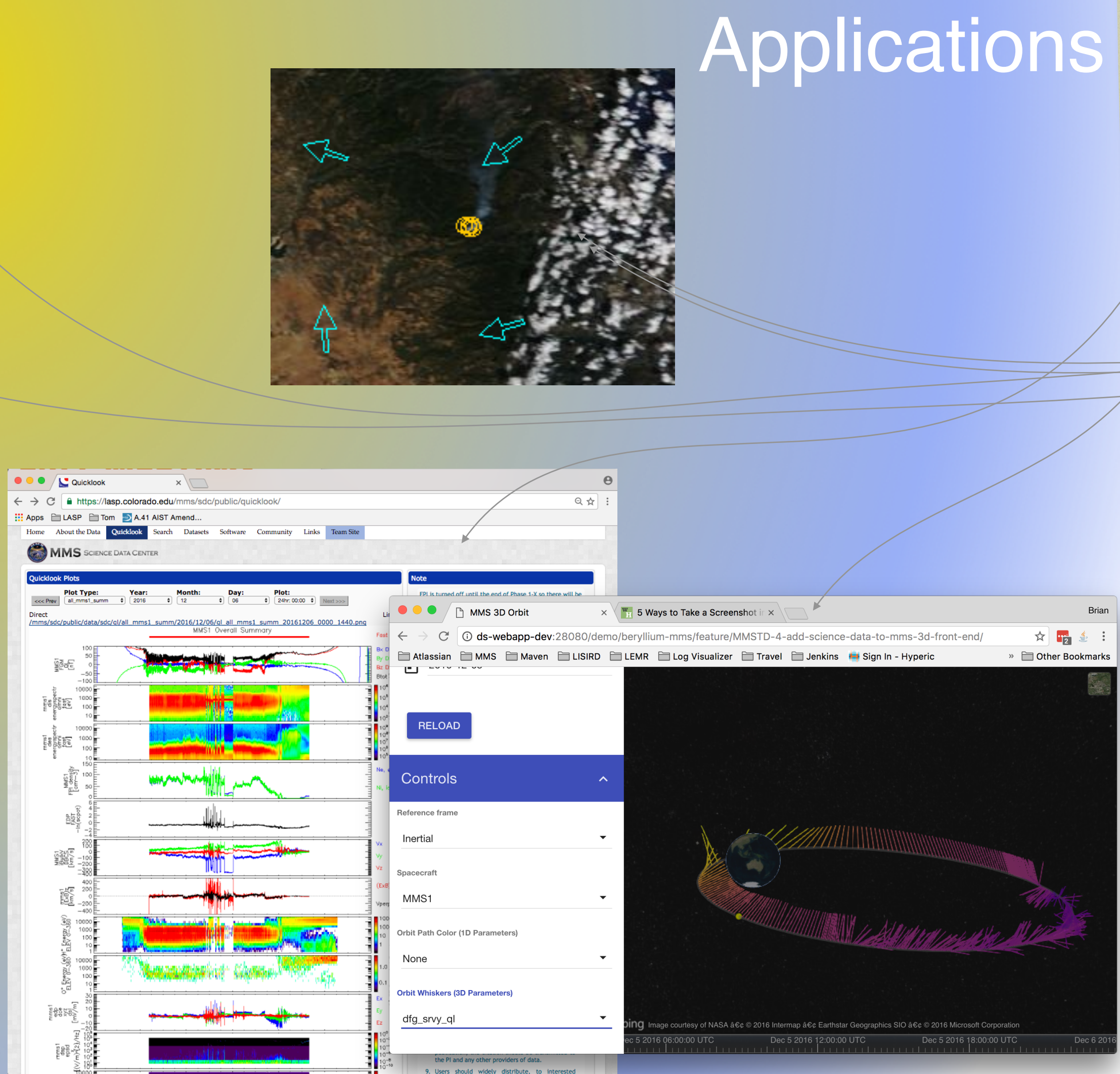
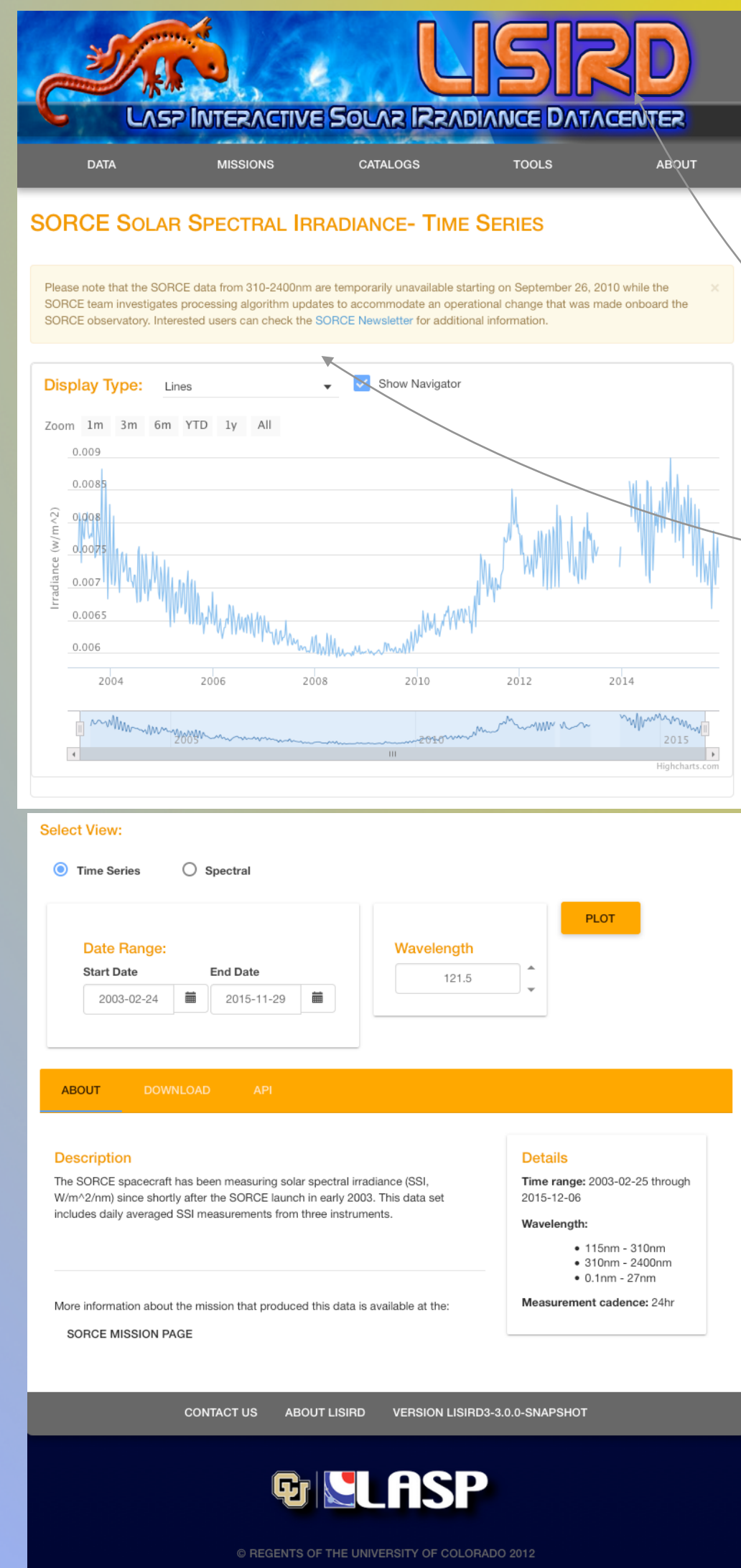
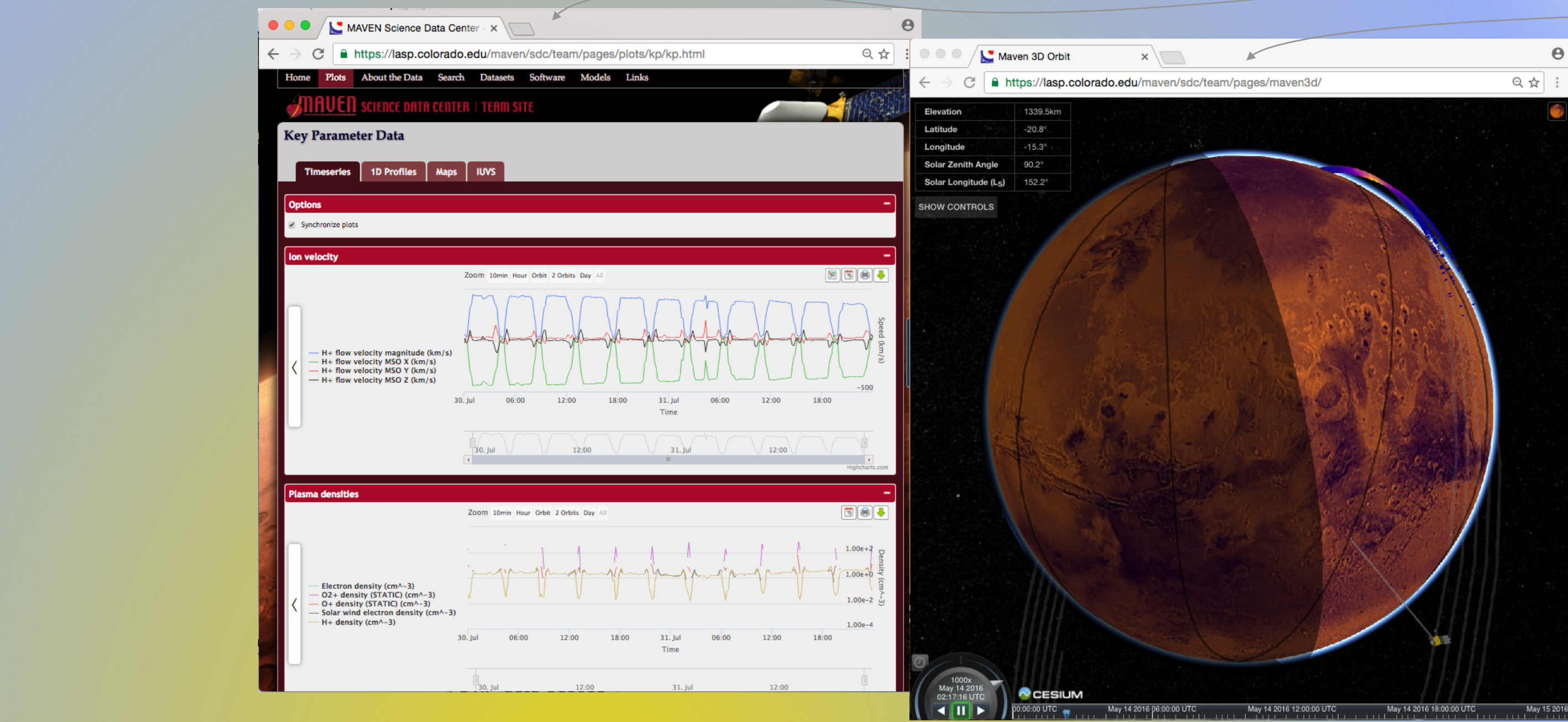
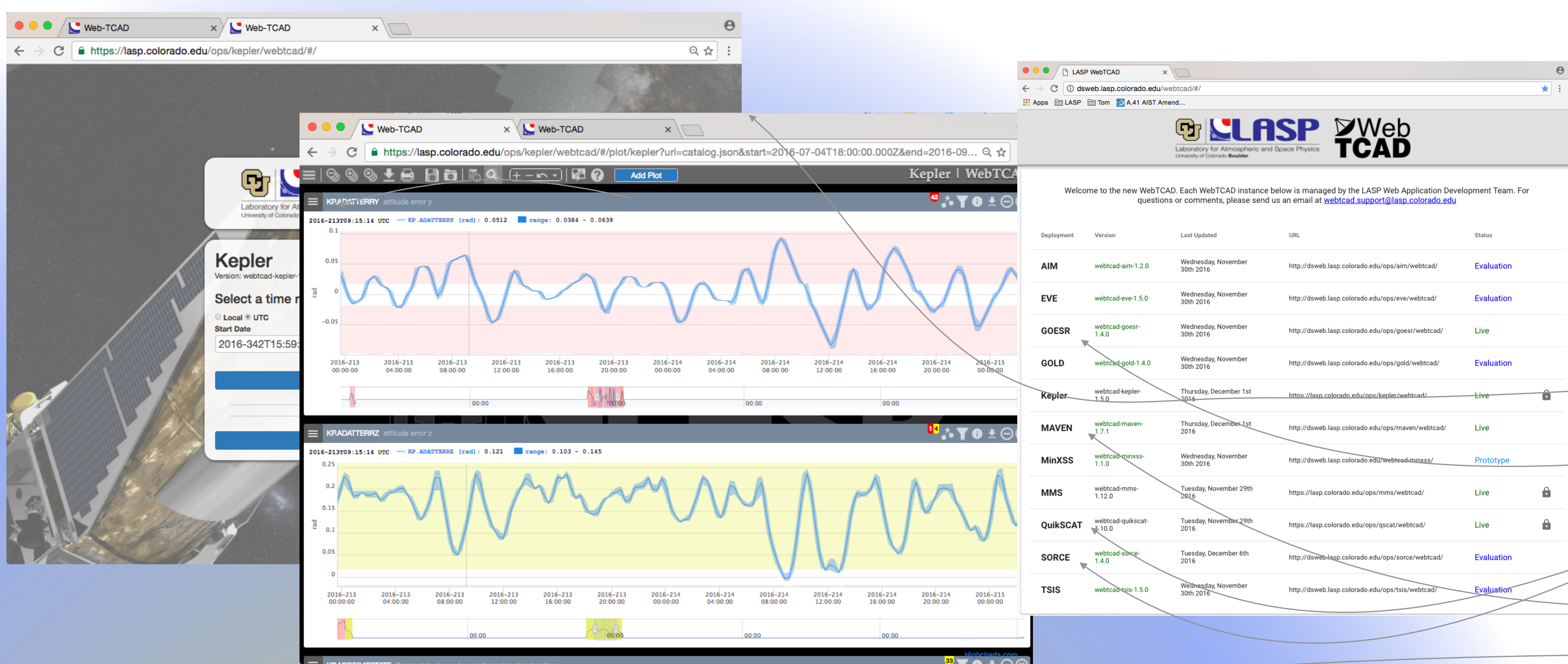


A Functional Data Model Realized: LaTiS Instances

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Laboratory for Atmospheric and Space Physics (LASP), Boulder, Colorado

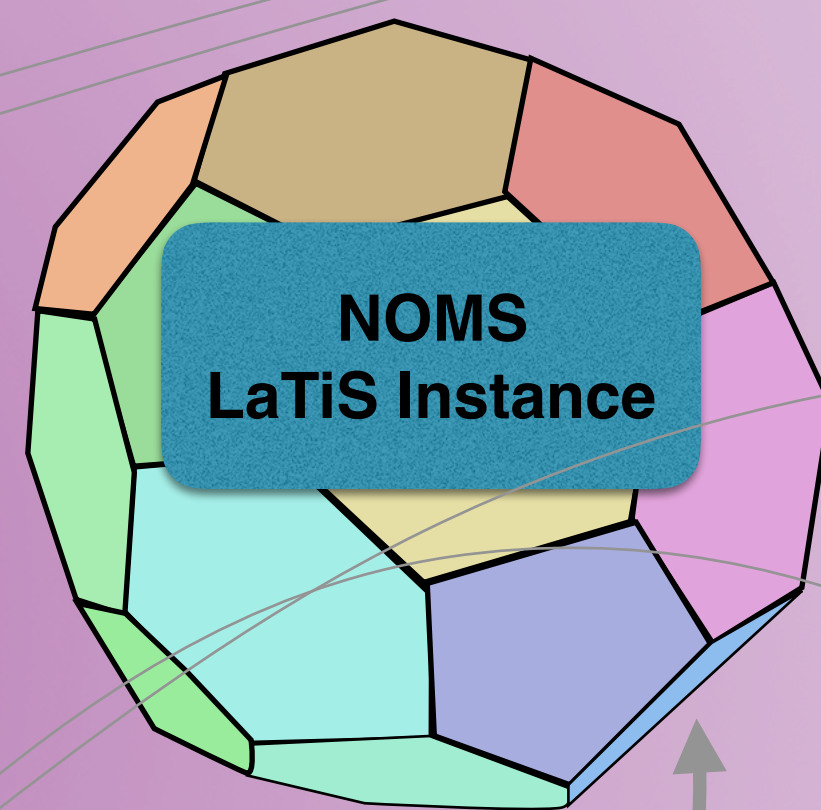
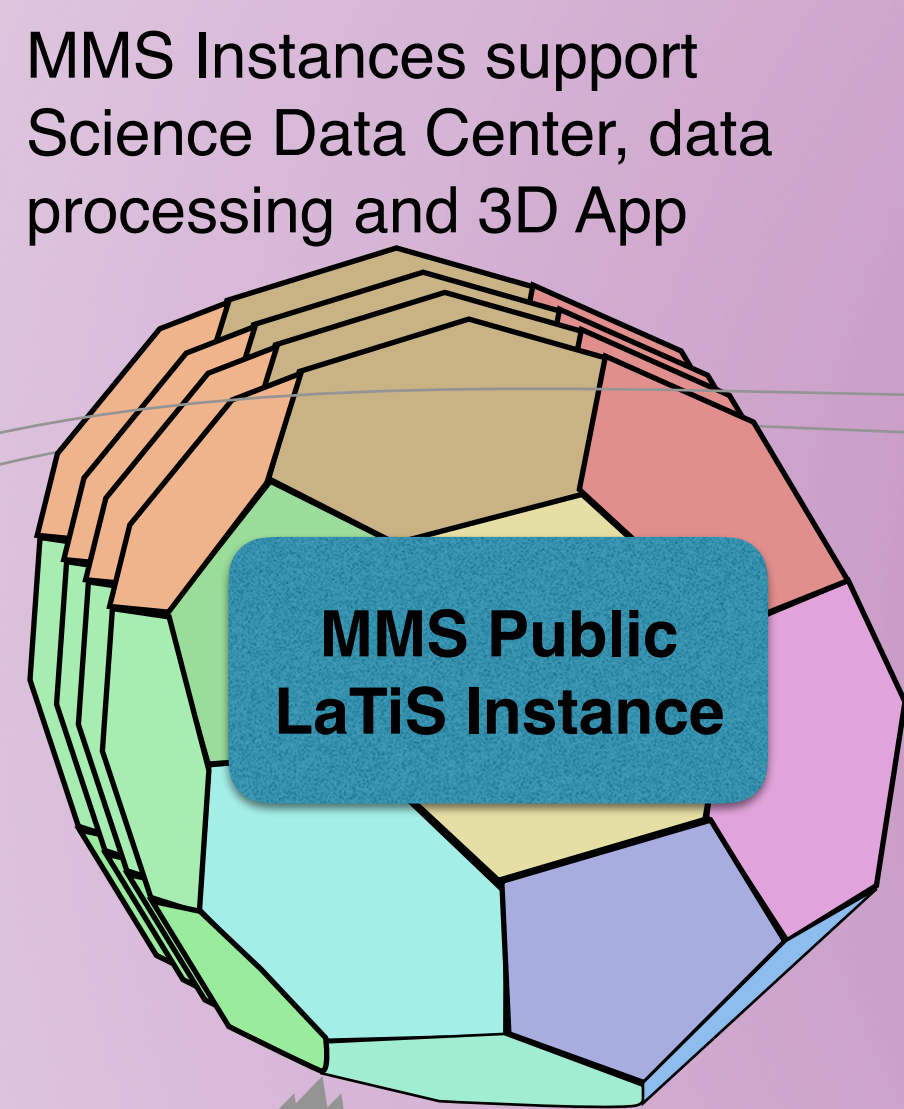
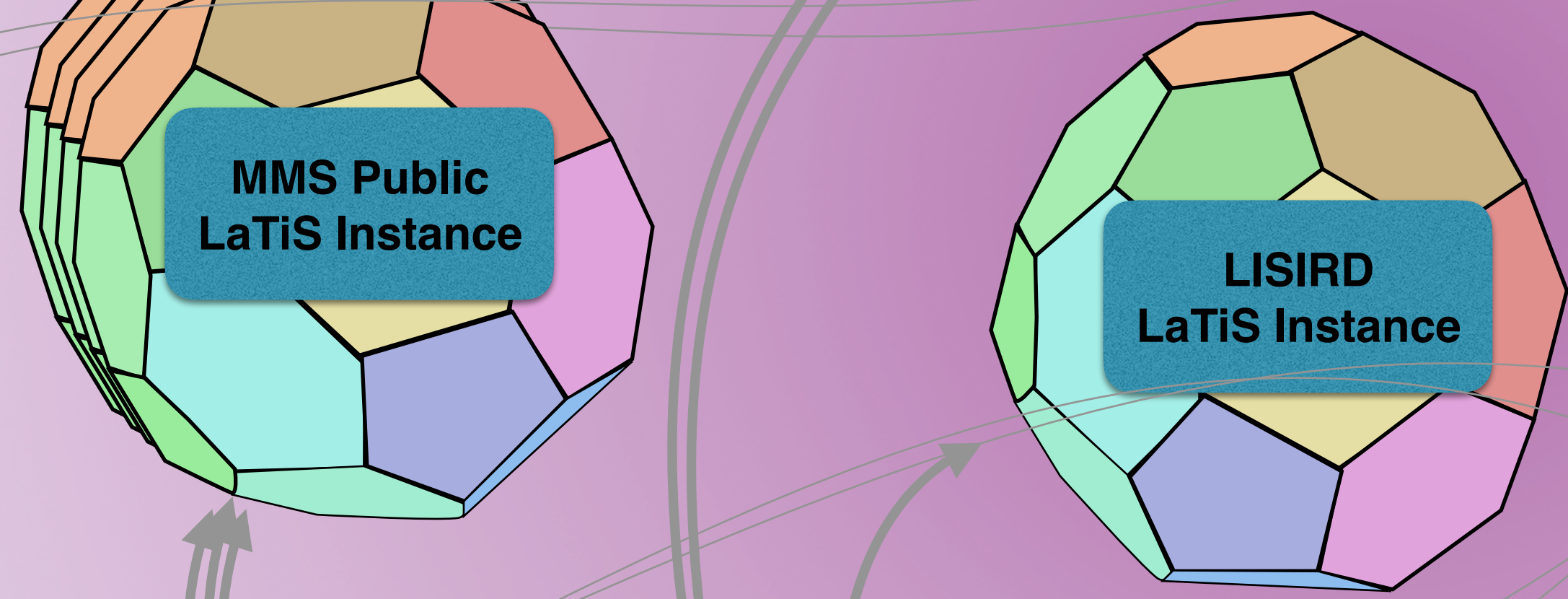
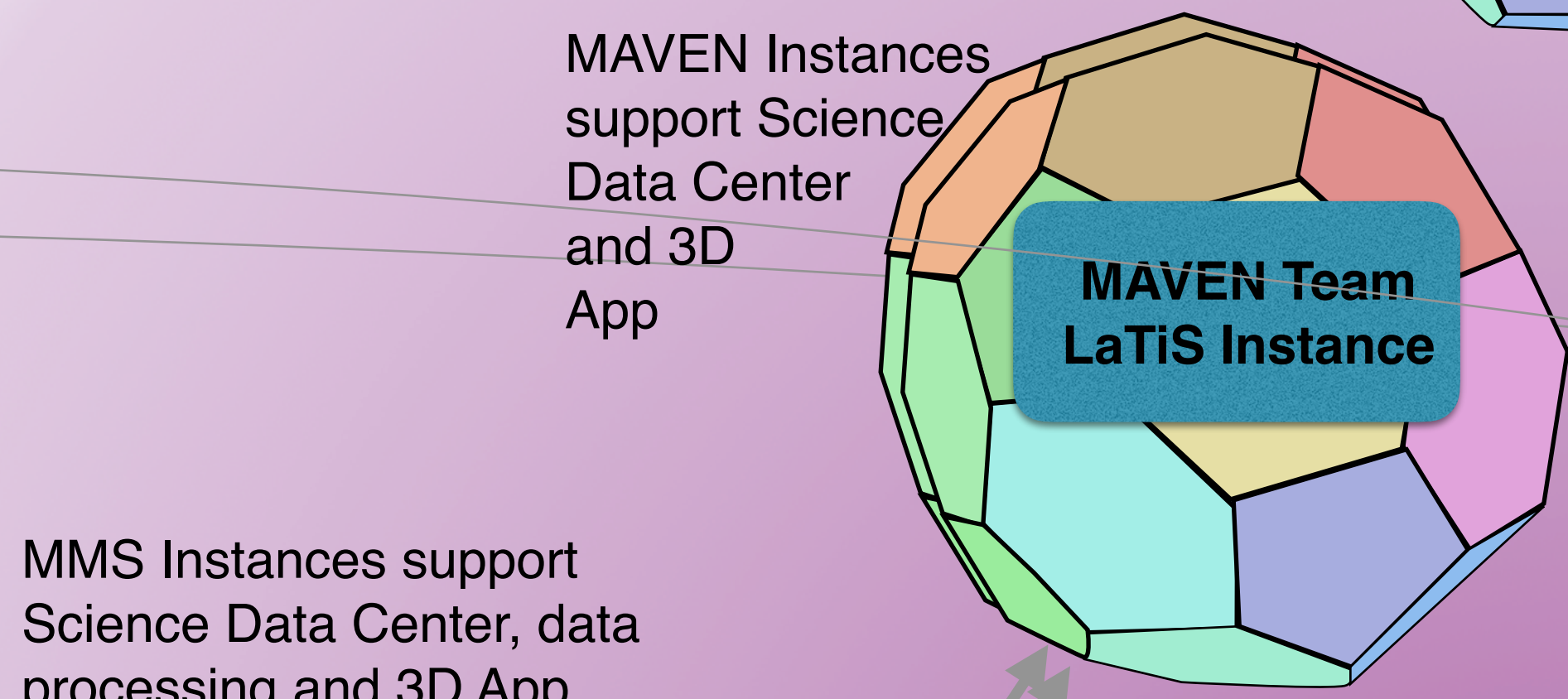
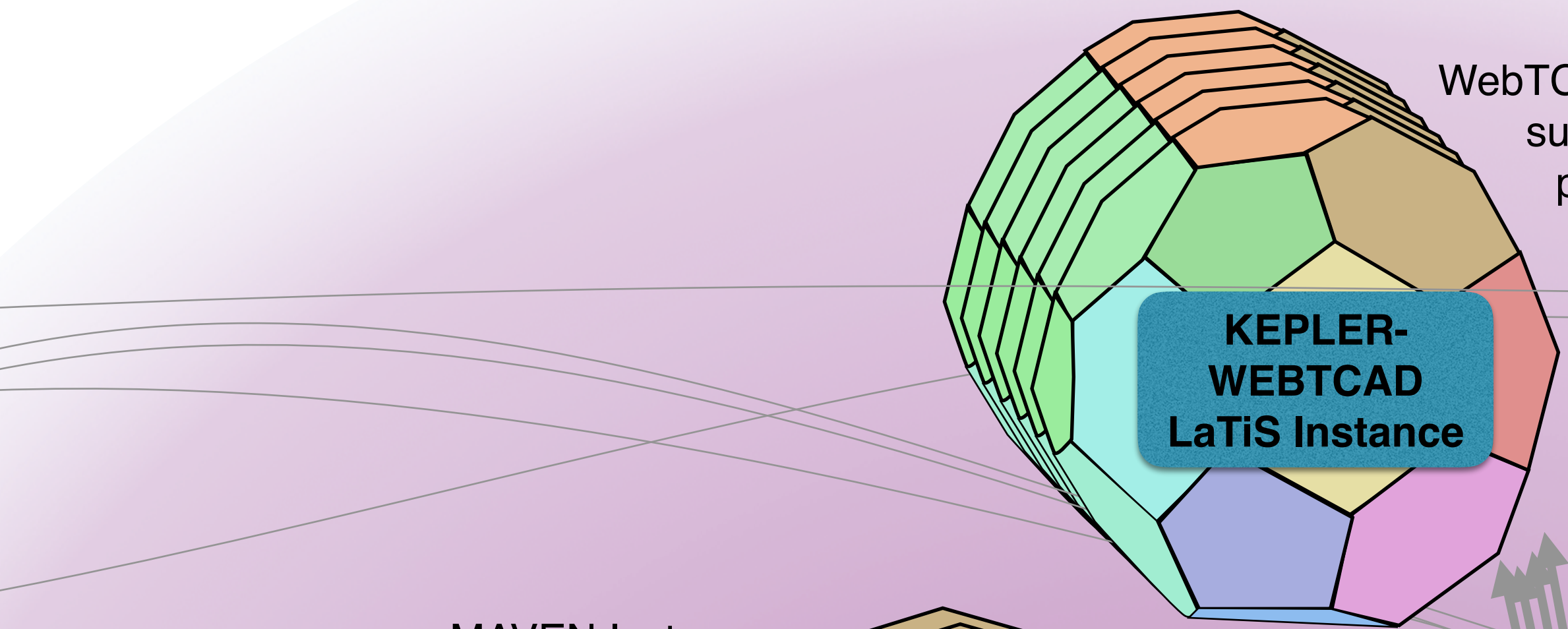


Applications

LaTiS Data Access Layer

Machine readable data via LaTiS Uniform API

OPeNDAP compliant, intuitive API



LaTiS Instances

LaTiS data model

Domain semantics are incorporated at higher levels of abstraction in the software framework

<https://github.com/lati-data/lati>

Pluggable Writers map from the data model to the desired output format

On demand, server side functionality:
reformatting, subsetting, aggregation, application of filters to transform and analyze, time reformatting

Pluggable Readers and Adapters map from the input source to the data

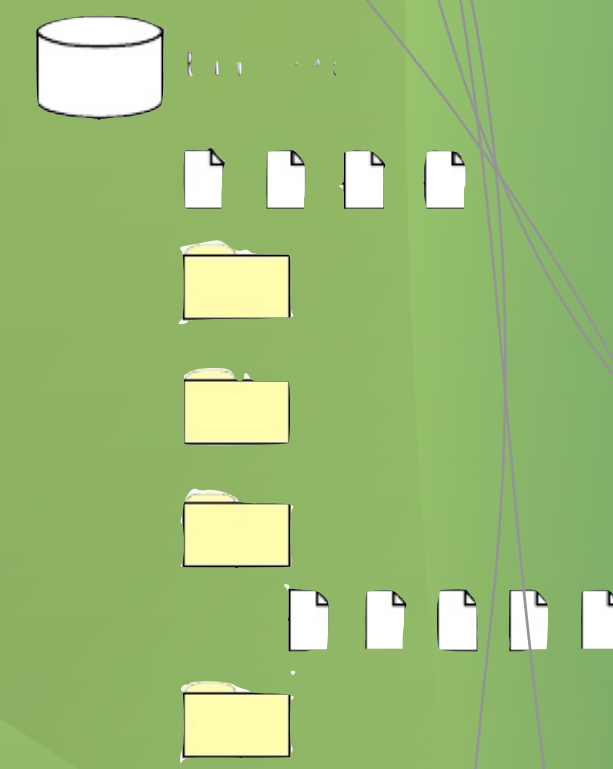
Extensibility

- To integrate a new dataset
- 1) Write a TSML descriptor to describe the new dataset
 - 2) Reuse an existing Reader or Adapter, or for custom datasets, write a new adapter
- E.g., generally columnar ASCII dataset can be added in 5 minutes.
- To provide a new output format, reuse an existing writer, or for custom outputs, write a new Writer for that format.

Relational Databases

LaTiS Data Adapter Layer

Serve any data having a URL



File systems

Implemented formats
binary, ASCII, Excel, log files, NetCDF ...

Data Sources

