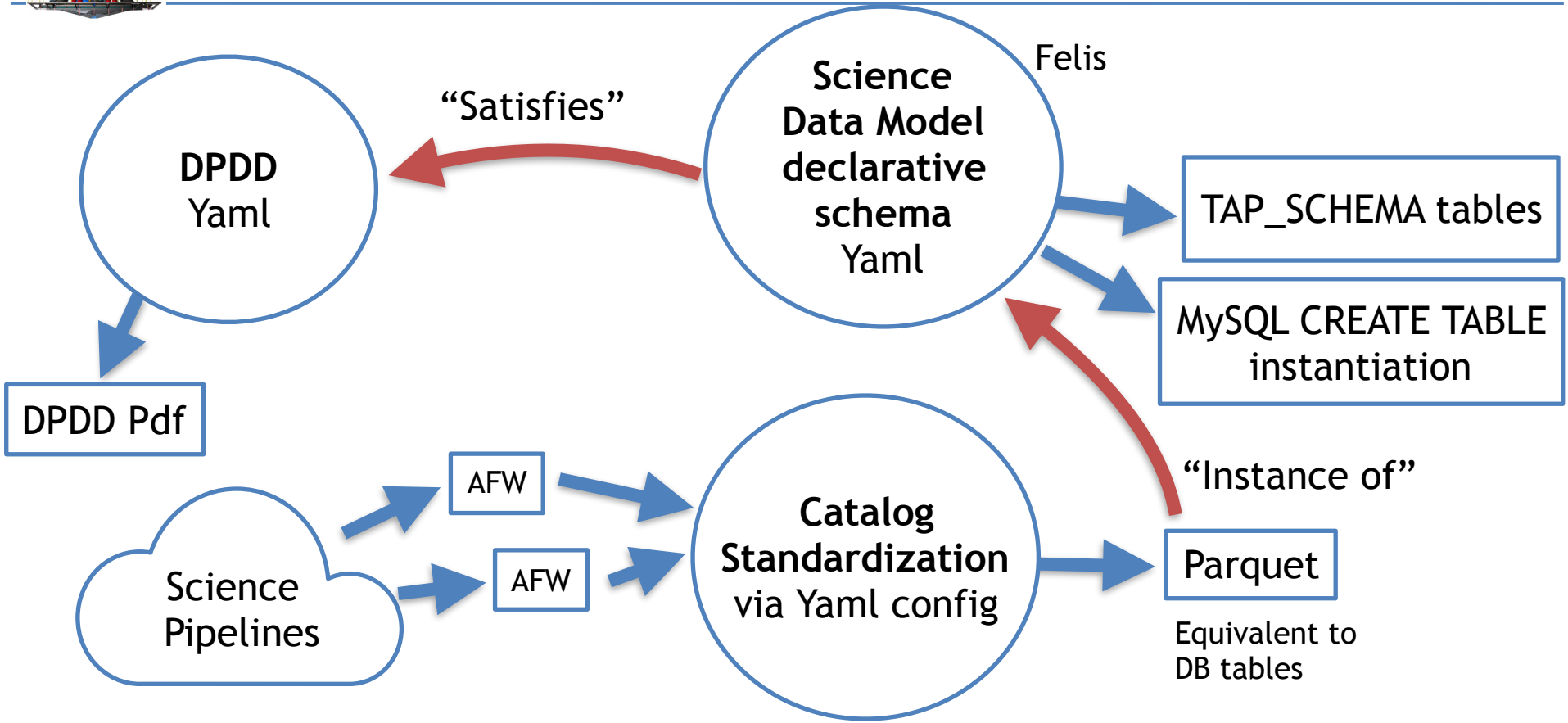
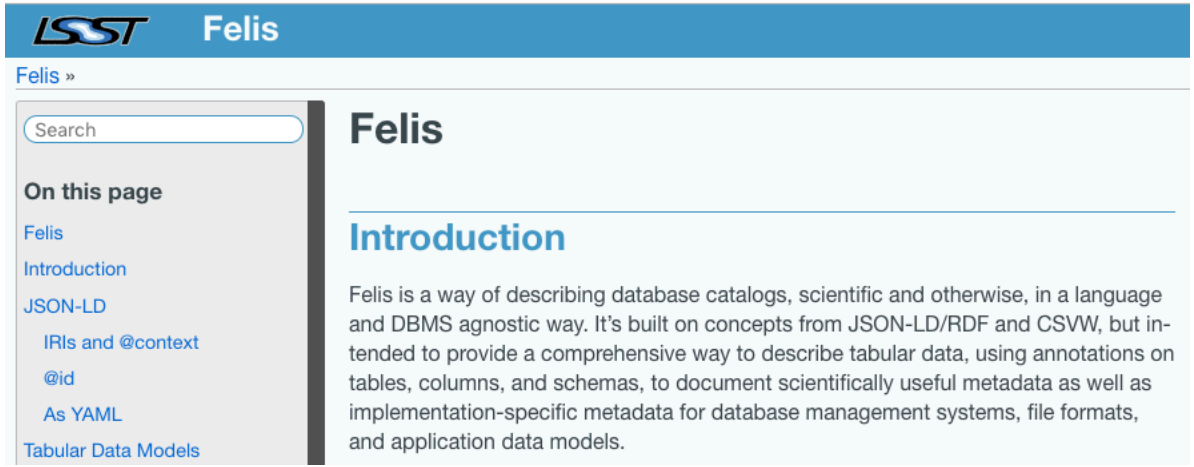
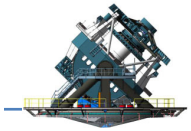
Science Data Model/Standardization





https://felis.lsst.io/v/DM-14184/index.html

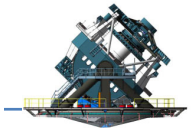


BaselineSchema.yaml

```
- name: Object
  "@id": "#Object"
  description: The Object table contains …
  columns:

  - name: objectId
    "@id": "#Object.objectId"
    datatype: long
    description: Unique id.
    mysql:datatype: BIGINT
    ivoa:ucd: meta.id;src

  - name: parentObjectId
    "@id": "#Object.parentObjectId"
    datatype: long
    description: Id of the parent object this object …
    mysql:datatype: BIGINT
```



Proposal

- Declarative Yaml schema is the successor to `cat`
- Baseline version needs to be under DM change control.
- Result is automated verification of schema consistency & satisfaction of the DPDD, single source of truth for column metadata
- If there are other downstream users of the data model, we'd like to know now

- Todo:
  - Determine how to handle "useful but not strictly required" columns
  - Consider standardization "Complex Types" — e.g. col groups