Data Access Layer

- closing plenary – Hawaii 2013
    - Patrick Dowler (chair)
    - Francois Bonnarel (vice chair)

DataLink

- WD-DataLink-1.0 to be available in 2 weeks
    - support for self-describing services in the response (TBD)
    - finish defining vocabulary (TBD)
- DAL-WG review: November 2013
- PR in December 2013
- REC in early 2014

STC-S

- WD-STC-S-1.0:
  - review and discussion (yes)
  - adding polarization depends on STC update
  - concensus that STC-S should not be used in ADQL queries or responses (mostly, TBD)
  - concensus on scope of STC-S-1.0 (NO)

CSP: Data Cubes

- agreed to standardise 3 capabilities:
  - queryData
  - get-gory-details
  - accessData
- together these make up SIAv2
- each capability will be reusable outside of SIA

CSP: Data Cubes

- queryData capability

    - parameter-based querying (no separate PQL)

    - will return ObsCore metadata

    - will return additional fields from ImageDM as necessary

- use:

    - satisfy ~90% of data discovery use cases

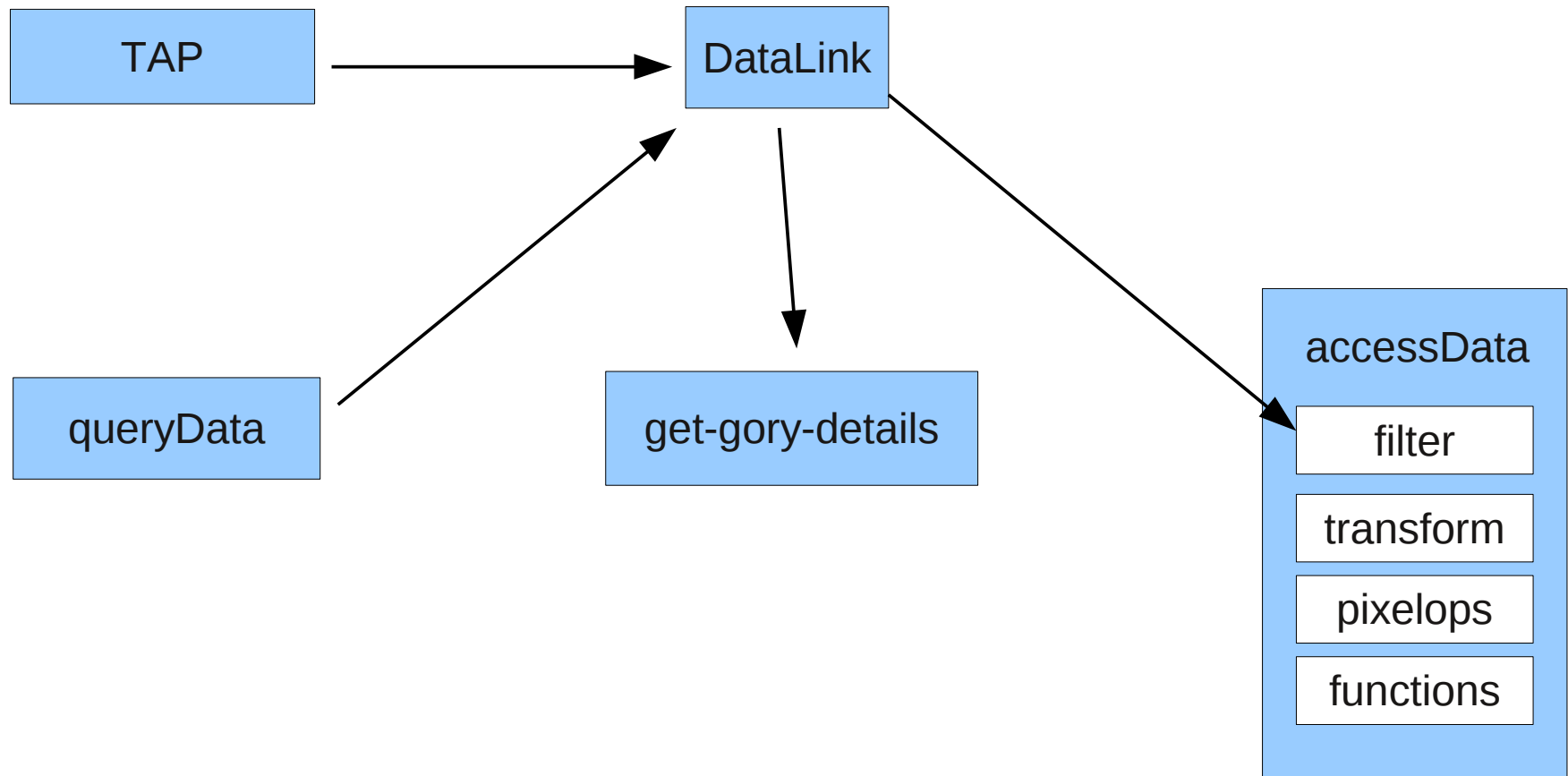   - more implementation options than TAP+ObsCore

CSP: Data Cubes

- get-gory-details capability

  - single parameter identifying the data (publisherDID)

  - returns complete ImageDM metadata for a dataset

- use:

  - needed to plan/execute accessData ops

  - one of the links in DataLink

  - in queryData response (OPT)

CSP: Data Cubes
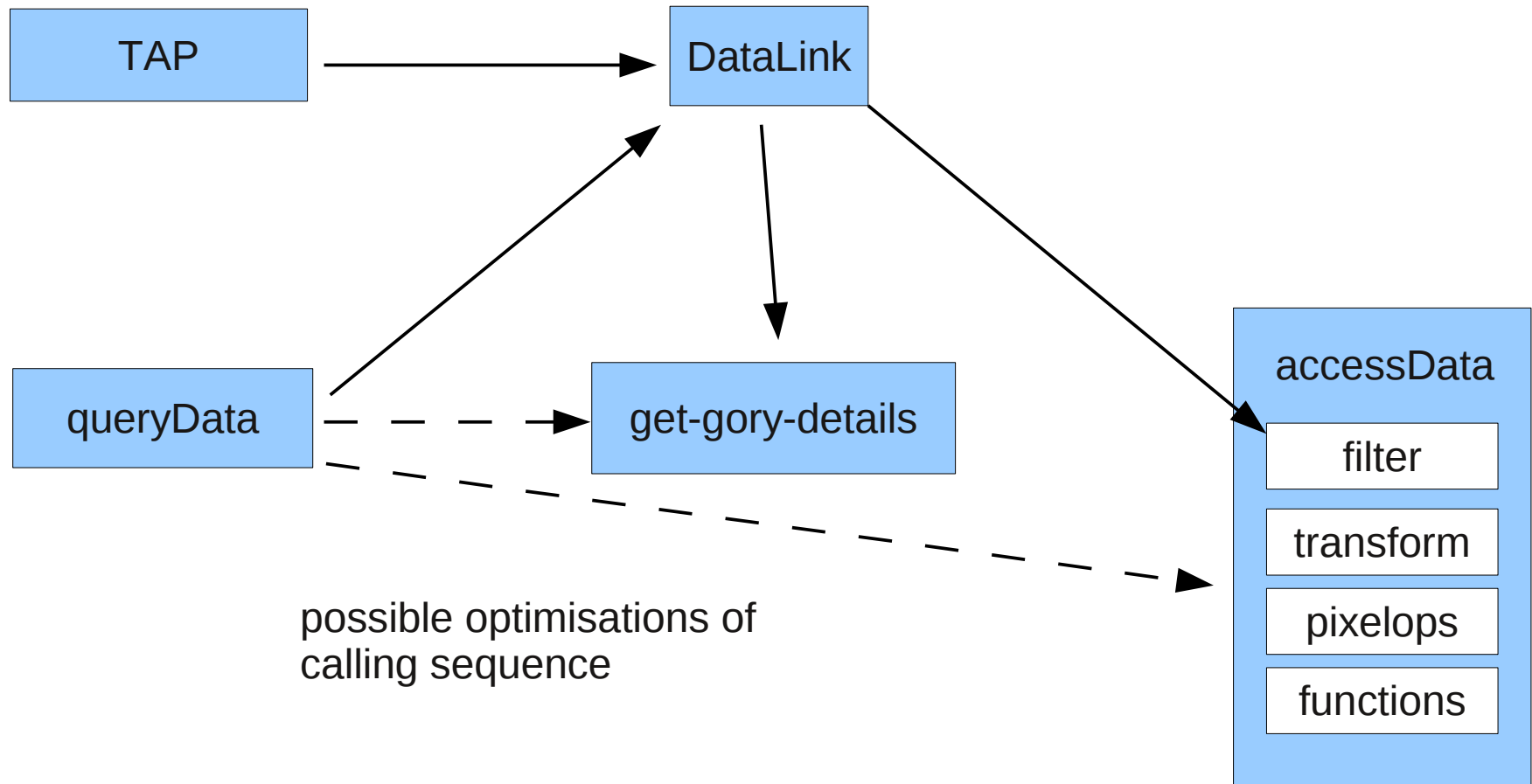
- accessData capability
  - access to a single file or dataset (TBD)
  - single resource accepts and processes a bundle of access operations
    - filtering, transform, pixel operations, functions
  - one of the links in DataLink
  - a virtual data link in queryData response (OPT)
- start with filtering (subsection) and add more features in subsequent versions

CSP: Data Cubes

data discovery ⟶ **data access**

```
TAP ⟶ DataLink
queryData ⟶ DataLink
DataLink ⟶ get-gory-details
DataLink ⟶ accessData
```

accessData
- filter
- transform
- pixelops
- functions

CSP: Data Cubes

DAL Roadmap - Heidelberg

time

DALI

ObsCore-1.1?   TAP-1.1?

DataLink

ADQL-2.1?

STC-S

STC cutouts

flattening along axis   PQL   queryData

ImageDM

rebinning

precision (pixel) access
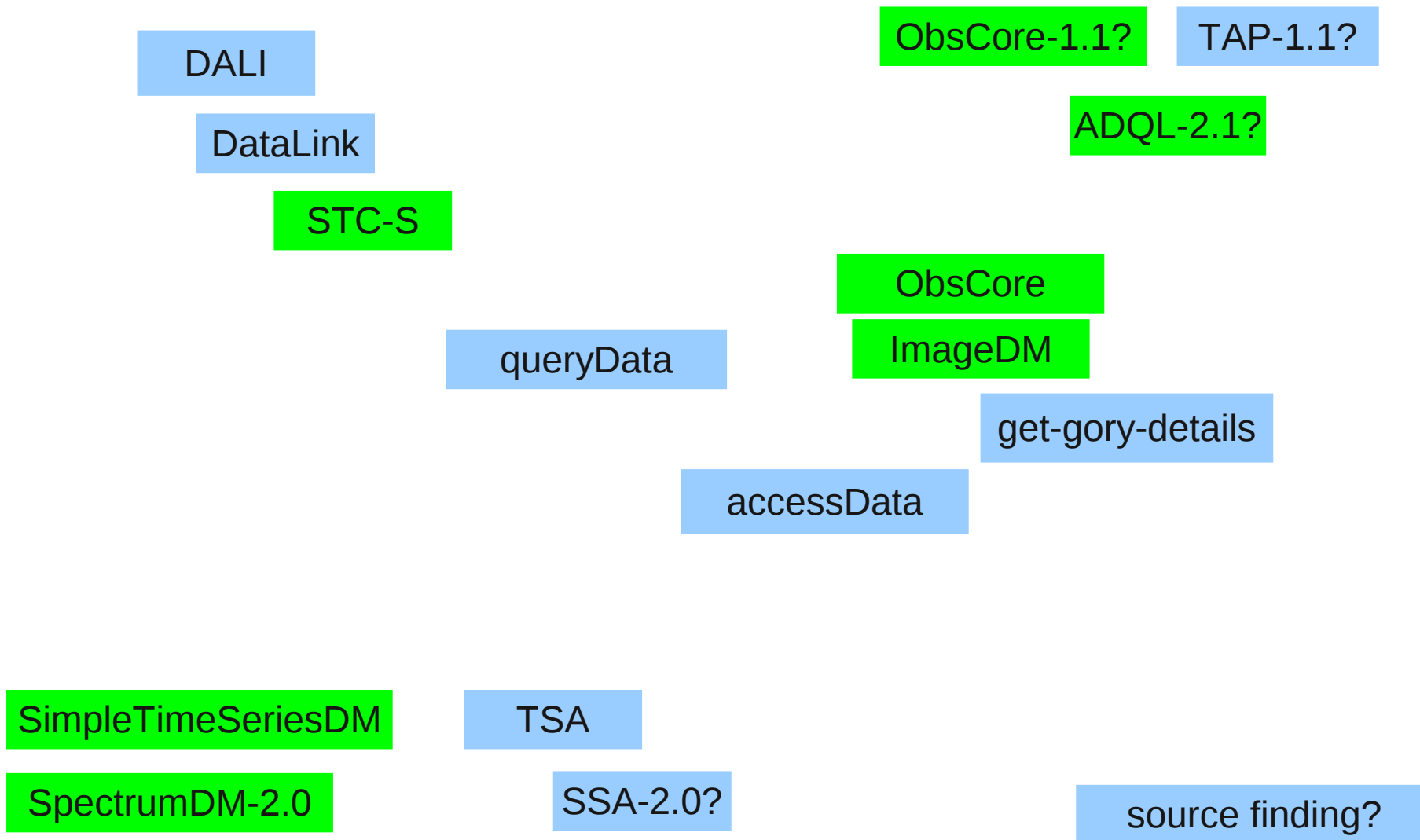
SimpleTimeSeriesDM   TSA

cube arithmetic

SpectrumDM-2.0   SSA-2.0?

source finding?

DAL Roadmap - now

time

DALI

DataLink

STC-S

ObsCore-1.1?   TAP-1.1?

ADQL-2.1?

ObsCore

queryData   ImageDM

get-gory-details

accessData

SimpleTimeSeriesDM   TSA

SpectrumDM-2.0   SSA-2.0?   source finding?

SIAV2 documents from DAL-WG

- WD-SIA-2.0: ASAP

    - queryData capability

    - get-gory-details capability

    - advice using DataLink

- WD-AccessData-1.0: ASAP

    - accessData capability

    - subsection (cutout by STC-S)

- AccessData-1.x: later

    - transforms, pixelops, functions, etc