

# Data Model Working Group

## Data modeling

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Building an **accurate description** of scientific quantities and on the **way to combine** them

## The IVOA coating

These accurate data descriptions must be **shareable** among different **stakeholders** (data providers, clients, standard editors)

## Core of the group activities

**Coordination** of the data modeling **activities** in the VO

- **Development** of new models
- **Adaptation** of existing models to new use cases

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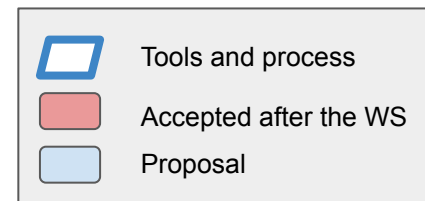
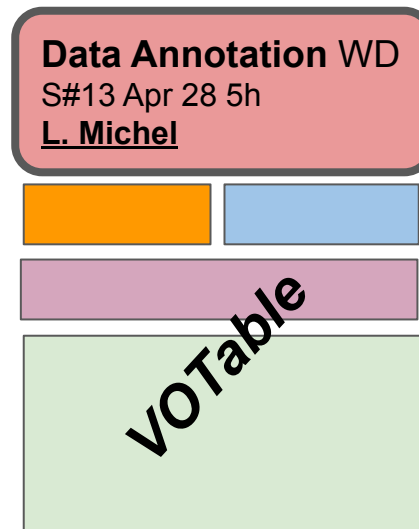
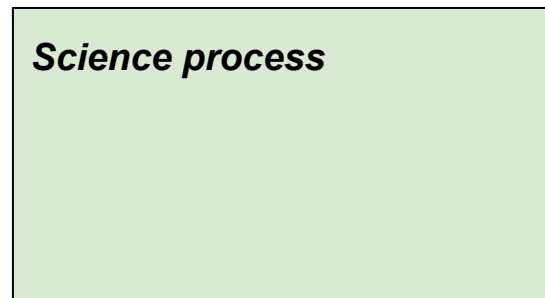
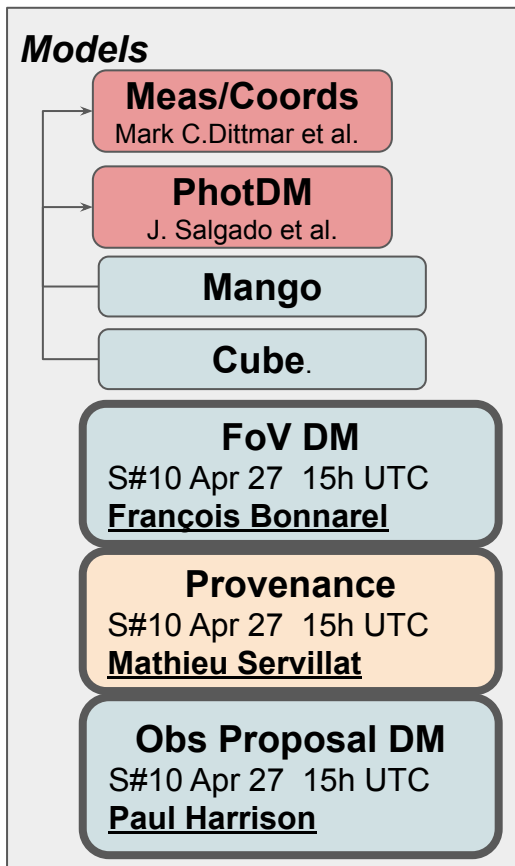
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## After sales service

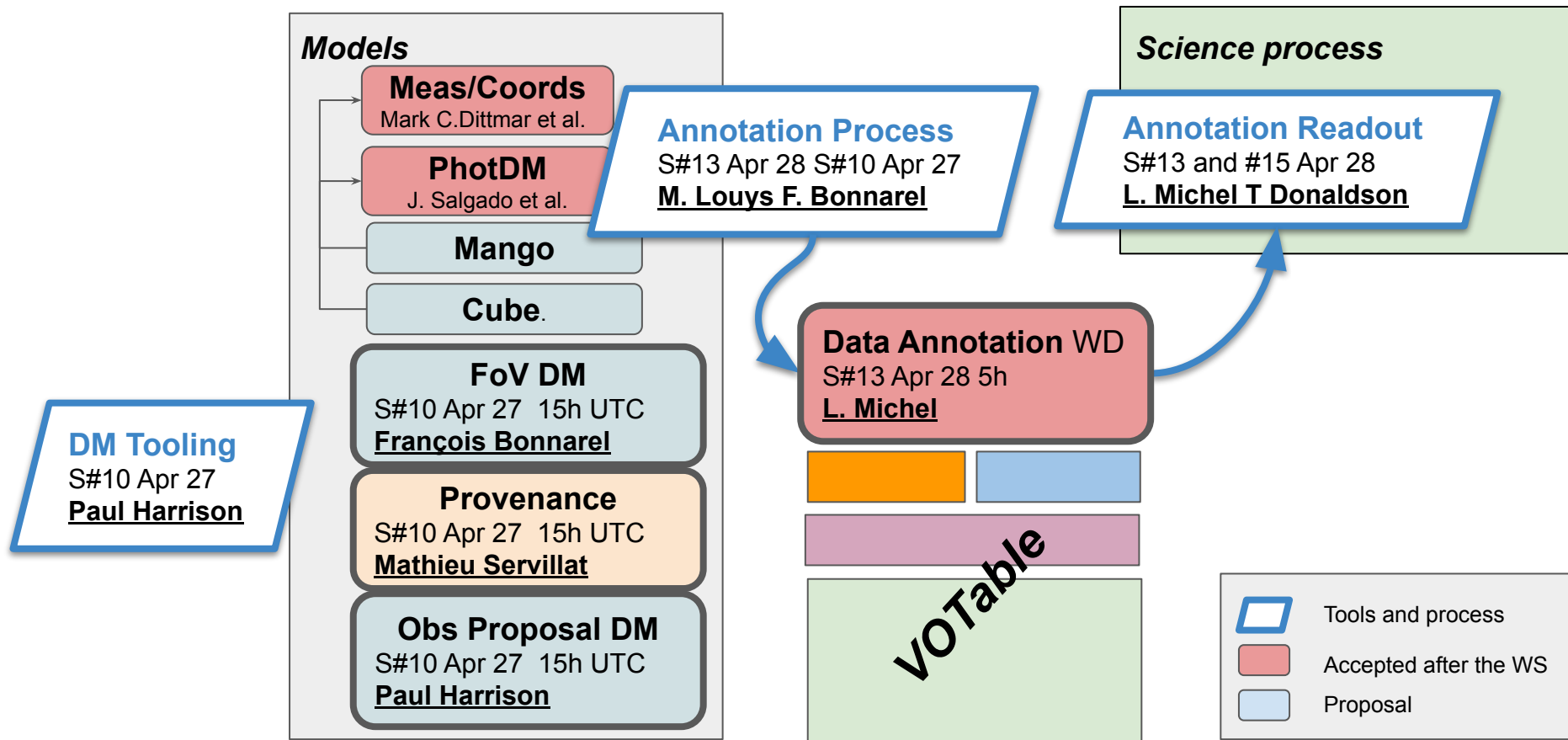
Provide a **framework** for the **DM integration** in the VO activities

- Identify **use-cases** for which the use of models is relevant
- How to bind **legacy data** with models
- How to **process** modeled **data**

# Post-Workshop Landscape in 2022



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## DM 1: Data Models

**Time:** Apr 27 15:00 [session #10]

Speaker	Title	Time	Material
Paul Harrison	DM Tooling	12 + 3	
Mathieu Servillat	Last Step Provenance	12 + 3	
Paul Harrison	Observation Proposal DM	12 + 3	
Francois Bonnarel	Instrument Field of View DM and mapping in VOT	12 + 3	

Moderator: Laurent, Notetaker: Jesus

**notes:** [etherpad notes](#) ([link to live notes](#), should expire around end of April 2023)

## DM 2 : VOTable Annotation

**Time:** Apr 28 05:00 [session #13]

Speaker	Title	Time	Material
Laurent Michel	Annotation Syntax	12+ 3	
Mireille Louys	Annotating TAP Responses on the Fly	12 + 3	
Laurent Michel	Implementation Status, issues and Prospects		



## What could I do with the models that I can't do now?

- Get a clean representation of the coordinate systems
- Get a clean representation of the errors
- Support cross-columns parameters
  - Columns grouping
  - Complex errors (pos + pm + parallax)
- Gather data from multi-table VOTable (sources + detection)
- Exchange model instance with SAMP

# A Workshop to *Rattle that Lock* 🎵

<https://github.com/ivoa/dm-usecases>

January - June 2021

What happens when a model is updated?

What could I do with the models that I can't do now?

Dataset will never be all annotated; I'll ever have to process raw dataset

Annotating data is a big job for my service, what is the gain?

Why using models?

What happens when a model is updated?