Data Model Working Group

Data Modeling

Data modeling

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

The IVOA coating

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

WG Commitment

Core group activity

Coordination of the data modeling **activities** in the VO
- **Development** of new models
- **Adaptation** of existing models to new use cases

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**

A Workshop to *Rattle that Lock* 🎵

https://github.com/ivoa/dm-usecases   January - June 2021

What happens when a model is updated?

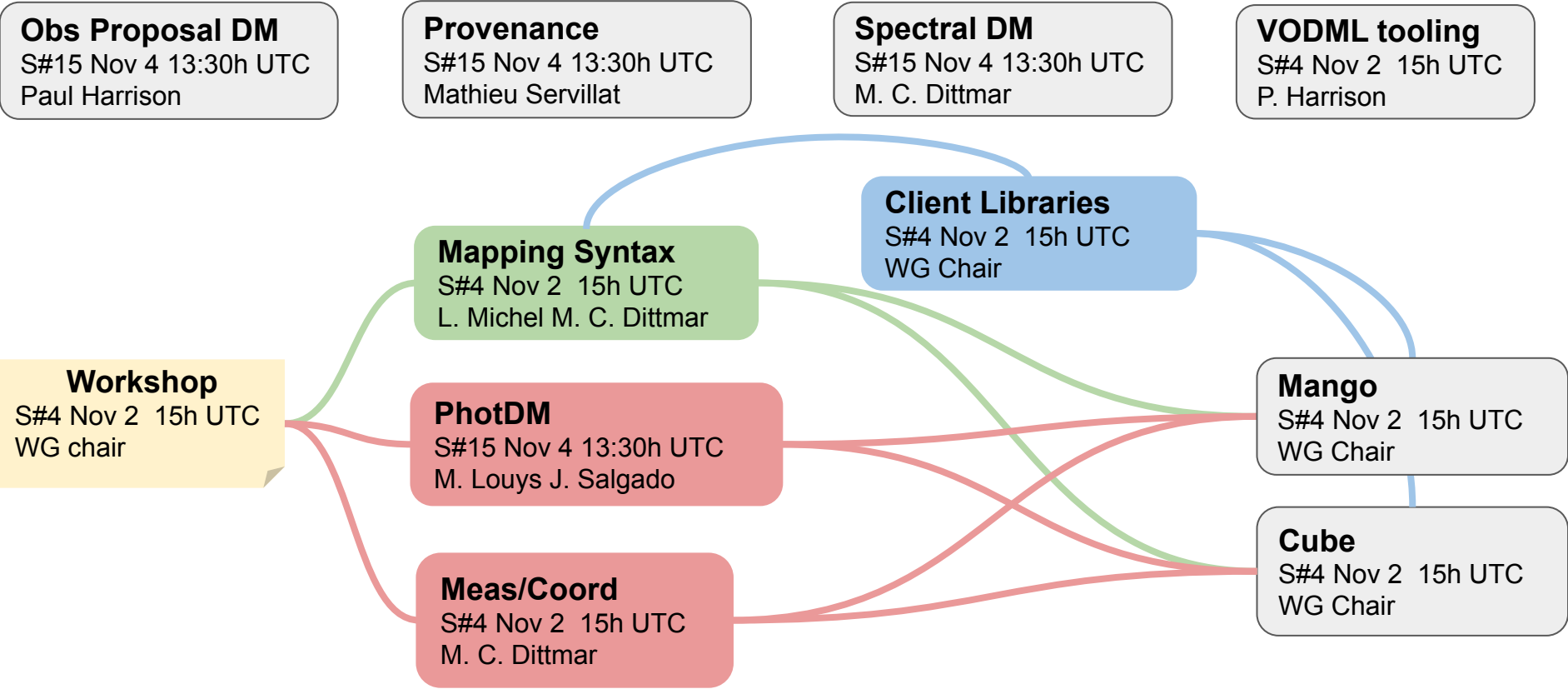What could I do with the models that I can't do now?

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?

After the Workshop, a Clear (tough though) Roadmap

Obs Proposal DM
S#15 Nov 4 13:30h UTC
Paul Harrison

Provenance
S#15 Nov 4 13:30h UTC
Mathieu Servillat

Spectral DM
S#15 Nov 4 13:30h UTC
M. C. Dittmar

VODML tooling
S#4 Nov 2 15h UTC
P. Harrison

Client Libraries
S#4 Nov 2 15h UTC
WG Chair

Mapping Syntax
S#4 Nov 2 15h UTC
L. Michel M. C. Dittmar

Workshop
S#4 Nov 2 15h UTC
WG chair

PhotDM
S#15 Nov 4 13:30h UTC
M. Louys J. Salgado

Meas/Coord
S#4 Nov 2 15h UTC
M. C. Dittmar

Mango
S#4 Nov 2 15h UTC
WG Chair

Cube
S#4 Nov 2 15h UTC
WG Chair

Agenda

DM 1

Time: Nov 2 15:00 [session #4]

Speaker	Title	Time	Material
Laurent M.	Workshop follow-up	5'+5'	
Laurent M. Mark C.D.	Mapping Syntax	15'+5'	
Mark C.D.	STC	10'+5'	
Paul H.	VODML tooling	10'+5'	

Moderator: Laurent, Notetaker: Jesus

notes: etherpad notes (link to live notes, should expire around end of December 2021)

DM 2

Time: Nov 4 13:30 [session #15]

Speaker	Title	Time	Material
Mathieu S.	Provenance	10'+5'	
Paul H.	Proposal DM	10'+5'	
Mireille Jesus	PhotDM	10'+5'	
Mark C.D.	Spectral DM	10'+5'	

Moderator: Laurent, Notetaker: Jesus

notes: etherpad notes (link to live notes, should expire around end of December 2021)

Laurent Michel, Jesus Salgado -- Locktown #4 - Nov 2021

Backup Slide

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