Data Model Working Group

Data Modeling

Data modeling

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

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The IVOA coating

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

WG Commitment

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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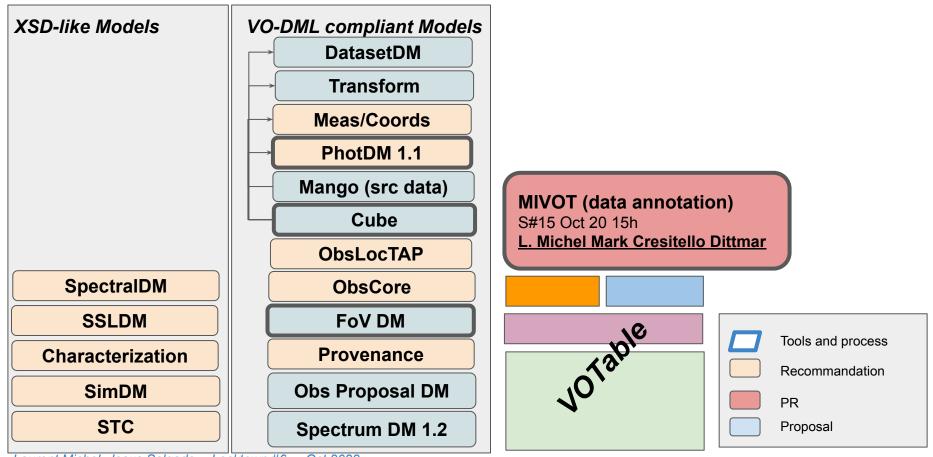
- **Development** of new models
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After sales service

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

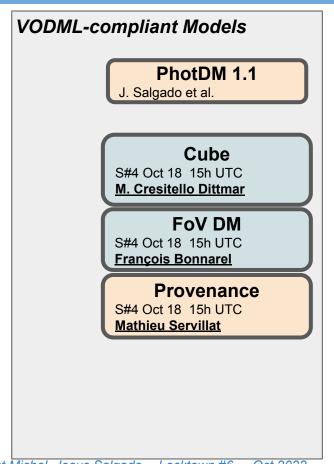
- Identify **use-cases** for which the use of models is relevant
- How to bind **legacy data** with models
- How to process modeled data

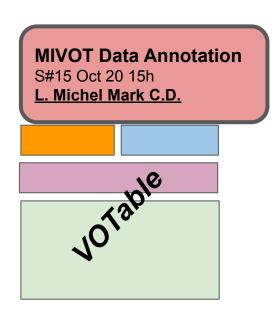
WG Landscape in 2022: Ongoing Models

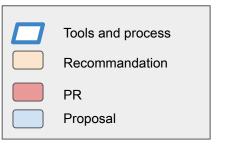


Laurent Michel, Jesus Salgado -- Locktown #6 - Oct 2022

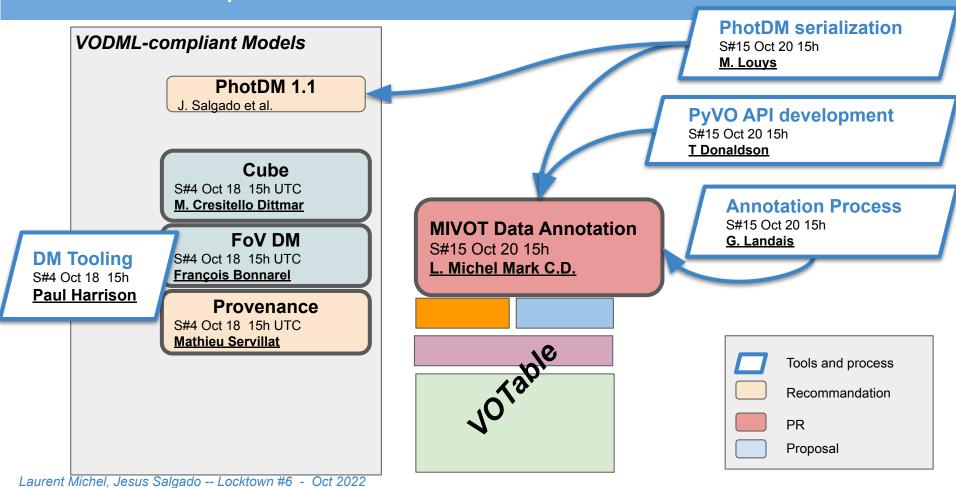
WG Landscape: in 2022 Tools and Process







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Let's play with DMs

We have everything we need to use models

- VODML making models machine readable
- VODML-compliant models
- MIVOT: Syntax for mapping VOTable data on models
 - Document ready
 - Dataset sample available
 - Code examples available
 - Service(s) online

Let's play with DMs

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- VODML making models machine readable
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- MIVOT: Syntax for mapping VOTable data on models
 - Document
 - Dataset sample
 - Code example
 - Services

We would be very happy

- To get feedback on this work
- To enlarge the circle of both contributors and testers

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

A Workshop to Rattle that Lock J

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?