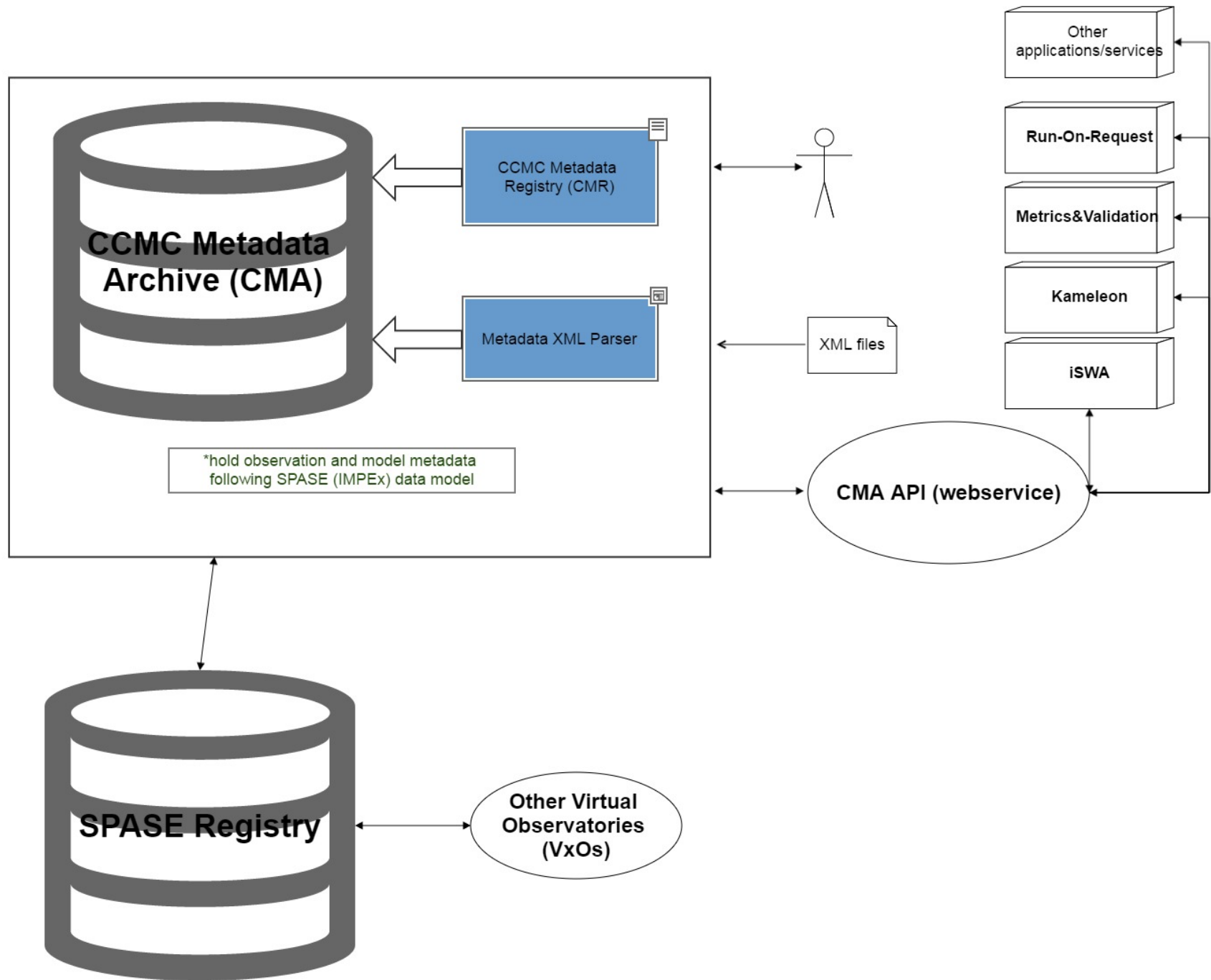


Information Architecture for Interactive Archives (IAIA) Working Team

Progress Report 4/7/17

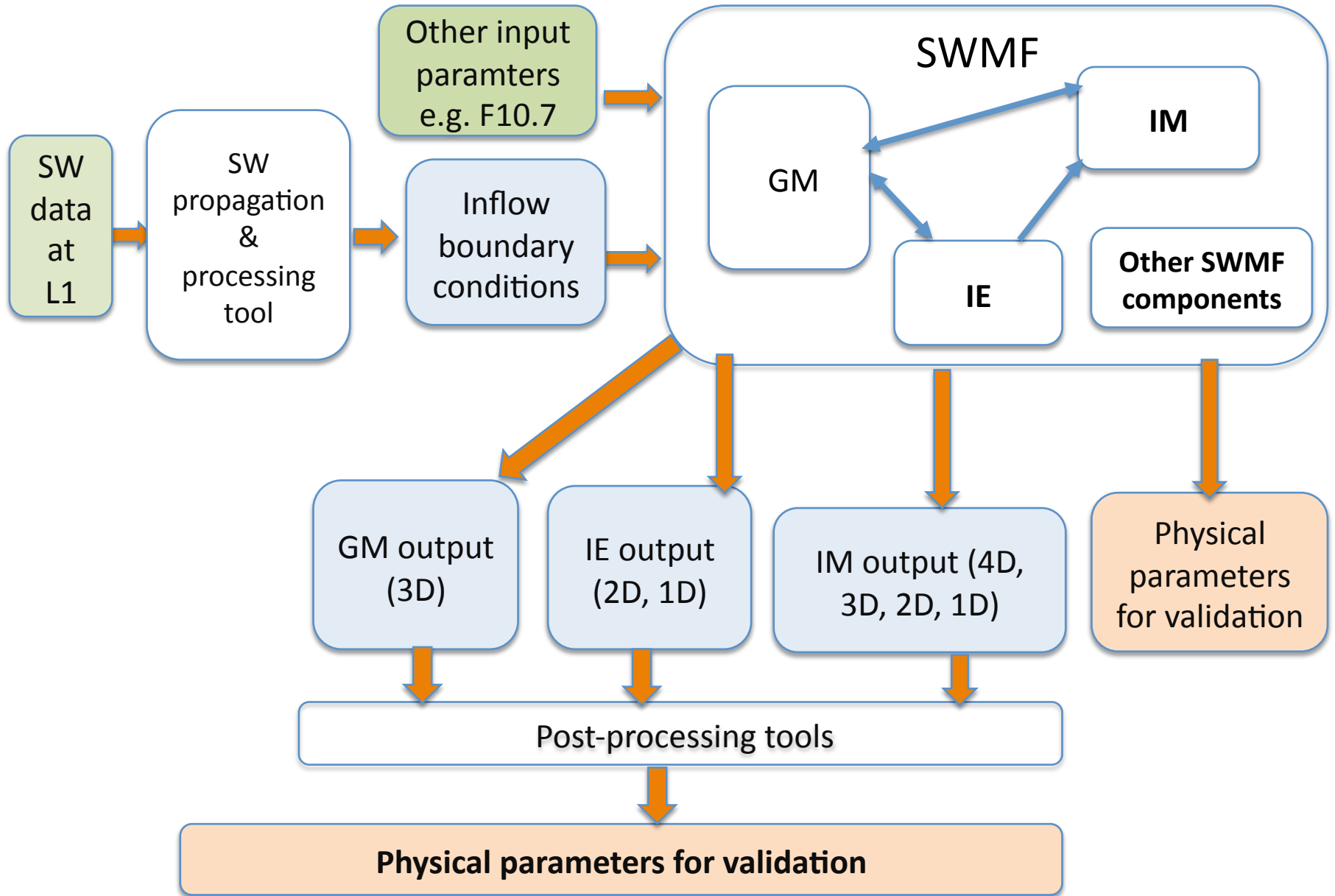


Metrics and Validation (MaV)

Model Chain

- A complicated chain of models and processes should will be supported and described.
- A sample of such a chain is ...

SWMF – dB/dt, Kp, Dst



MaV System Metadata Plan

- Selection of SPASE as the metadata standard for the MaV system.
- SPASE needs some minor changes to meet all of our needs, but we made a lot of progress this week mapping out the details of those changes and the SPASE group is very supportive of our needs.
- It will be used to describe the whole analysis chain as well as each individual component.

Why metadata at all?

- Most metadata right now is in the science expert's head, and not easily accessible by others.
- Metadata enables not only uniform access, but access that can be automated.
- Consistent metadata will facilitate development of more advanced analysis tools and new scientific discovery.
- Metadata use has grown from a nice extra to an essential tool.

iCCMC Metadata Tools

- Some tools exist and more tools are under development to assist with creation and upload of model and process metadata.
- We will provide assistance to help you get started.
- Metadata will need to be in place before the model or process can be included in the MaV system.

Data Ingestion and Sharing

- Likewise, data ingestion tools will also be provided to assist in getting data into the MaV system.
- A standard API for output (HAPI) will be implemented to provide access to both the processed model output and the data it is being validated against.
- This data feed can be stored for offline access or streamed into other tools.

Visualization & Metrics

- A basic set of visualization tools will be provided to assist with metrics evaluation.
- In addition, with the data API, additional analysis can be done offline.
- When a newly developed analysis or metric tool is developed, it can be added to the MaV chain as long as it has a SPASE metadata description provided with it.

Other Notes

- Development of the MaV system will be incremental
 - As pieces are done, they will be put into operation without needing the whole system to be complete to function.

Poll

- Do you use SPASE right now?
- What else do you use for your metadata needs?
- Why not?