

Meeting recording available via <https://bluejeans.com/s/msDsv/>

**Attended by:**

Alan Whitelaw	SMHI
Alberto Troccoli	Vivien Mavel
Alessandro Amici	Luke sanger
Aureliana Barghini	Kris Lemmens
Chiara Cagnazzo	Mohamad Nobakht
Gert-Jan Marseille	Laurent Dubos
Johnny De Roller	Jamie Davies & Pete Walker
Ronald Hutjes	Filip Lefevre
Kun Yan	Aureliana Barghini
Nicola Masotti	Adeline Cauchy
Phil Beavis	C3S (Carlo, Eduardo, Kevin, Sam)

**Introductions**

**Data Integration Discussion:**

1. Public data – start of process via harmonised data (standards names, path, international units etc.). C3S will organise standard names if the name do not exist.
2. Data available internally – No accessible in catalogue. Data needs to be compatible with the CDM so, naming and units need to be aligned with C3S requirements.

Eduardo:

- Public / general audience, so all variables need a good explanation which are clear. Use the explanations in the CDS catalogue as a guide.
- Avoid acronyms, need a list of all components. Use path for all the files for retrieval
- In the harmonised tables, need to have distinction between CDS and in VM (internal)

Q- What list of standard names? Based on [CF http://cfconventions.org/Data/cf-standard-names/58/build/cf-standard-name-table.html](http://cfconventions.org/Data/cf-standard-names/58/build/cf-standard-name-table.html)

Q -Mechanism to connect the VM to the toolbox? https, to be clarified by the CDS team. Private data in folders will be accessed to naming conventions. Leave this question for Cedric.

Q -Suggesting standard names if there is not one? Can we leave them blank, for now? Yes, but would suggest that a name is suggested, then we request the standard name to CF. Propose a standard name and a definition is possible.

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SMHI clarification of the data overview – Eduardo suggested that contractors look at the abstracts on the CDS

Q - Is there an abstract that can be used for SIS contracts? Eduardo to provide an example for the SIS via internal webpage

Q - Should SIS data be consistent with the CDM? Yes, if they want it to be accessed via toolbox. To future proof data then suggest the data is fully compliant.

Q - Integration of ECEM data to proceed with the demonstration of operational demonstrator: Eduardo and Kevin provided an update for Alberto.

Mapping of detail in harmonised table: Eduardo asked for the mapping to ensure consistency with variables. Mapping between files and variables for complex dataset. No general rules, as depends on complexity. Harmonised tables are a good start for the ingestion process.

Size of files (NETCDF): Preference would be to serve the table less than 100MB, again, no hard and fast rules. Depends on contractor / CDS / users. General rule, If GB then too big and will be reduced, but depend on the contents of the files.

Q - Space on the VM for web development: No, for web-facing machines, but used as interface for the toolbox and CDS. Question related to VM, toolbox and data will be addressed in item 2.

Method of approaching Eduardo: Harmonised table will provide an overview of all that will be developed within the contract. Sample datasets can be sent to ensure that all the metadata and naming is correct.

Process would be to submit the harmonised tables first, then once happy, the contractor can submit a sample dataset.

PML are highlighting the files in the harmonised tables that are being submitted. Also indicating those that are to follow. Harmonised tables need to evolve with the status of the contract and colour coding is a good way forward. Eduardo to set a standard colour code for all SIS contracts: Green for data already to be submitted, yellow to be submitted and no colour. Red for those, which are to be submitted.

### **Virtual Machines:**

Contractors will be provided with VM based on their requirements.

Internal C3S meeting on the 11<sup>th</sup> Sept to agree on way forward – at present VM access is limiting contractor's progress and a priority for C3S.

Q - Is it possible to get access to CDS code repositories? Ultimately, we want to be open source, but not there yet. But will open it up on an ad-hoc basis. B-Open has

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some time to allocate to SIS contracts, which will be managed via SIS and CDS management. B-Open to provide support session & C3S to define support process.

Q- Developing Toolbox functionality – is it possible to update or develop libraries to be included on base design, rather than workflows on the toolbox. This process will be implemented in the future.

Q- Access to CDS toolbox available via Github? The strategy is not yet defined in Copernicus. Core components are still work in progress in terms of adding functionalities.

Q - Timelines and process for 1) data for the VM, 2) start using data in the toolbox and 3) when will Predictia show SMHI global data? Predictia will not be developing demonstrators for current contracts, only the POC. The current contracts can use the developments from Predictia and reuse / optimise.

### **Website:**

Went live last week, and contractors were invited to review and identify any errors - Please provide Eva Remate and SIS contract lead with an email detailing the changes required.

Will contractors be provided with login details for editing? Yes, Eva (who manages the web) will provide this in time.

### **Questions:**

It would be useful to have a diagram to help users access / find relevant demonstrators.

Users to access, find out which contracts are in development – this would be useful and will C3S look into this.

Page of providers incomplete: C3S energy, global agriculture and OSM not present – all non-POC contracts absent.