



ACTRIS

CCRES

Labellisation process

Martial Haeffelin

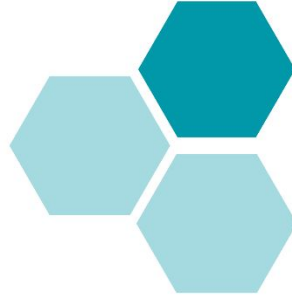
CCRES Workshop, Online – May 26th 2023



This project receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreements No 871115

Agenda

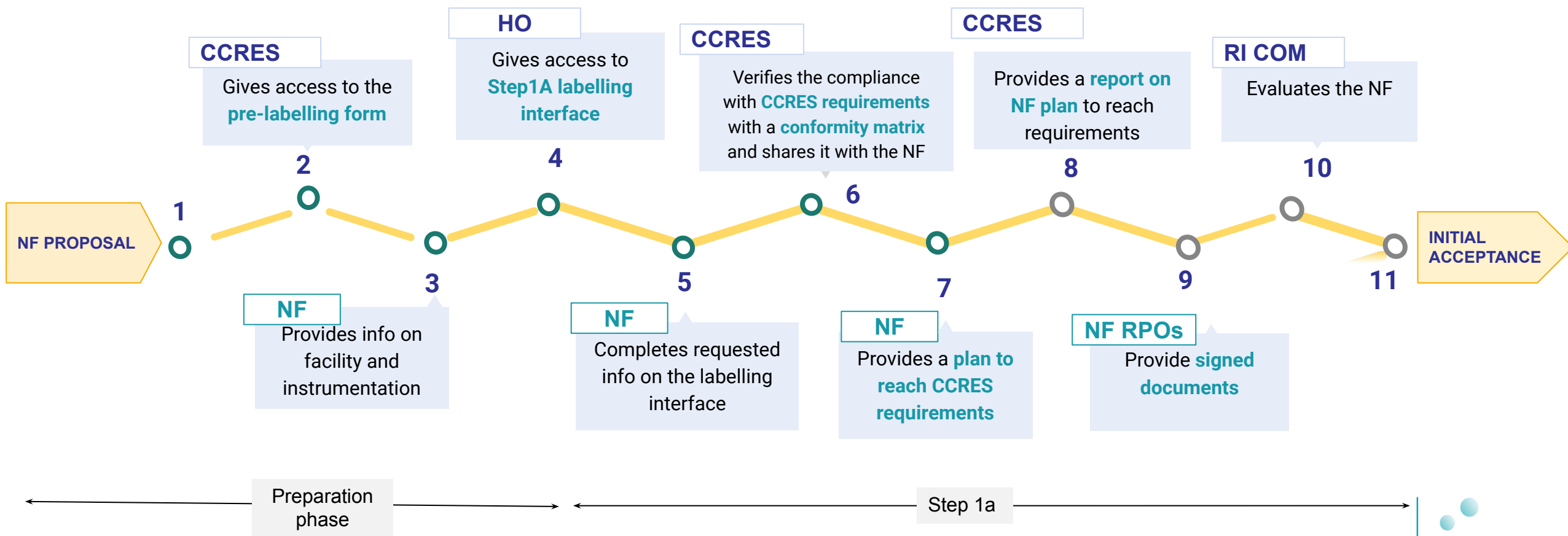
12:00 – 14:00	LUNCH BREAK
14:00 – 15:00	Feedback from task groups
15:00 – 15:30	Discussion on advanced and multi-instrument products
15:30 – 16:00	CRS NF Labelling: identify which stations are ready to start step 1A
16:00 – 17:00	Scientific highlights including EarthCare Cal/Val Activities
17:00	Conclusion



The initial acceptance for pilots

Step 1a workflow

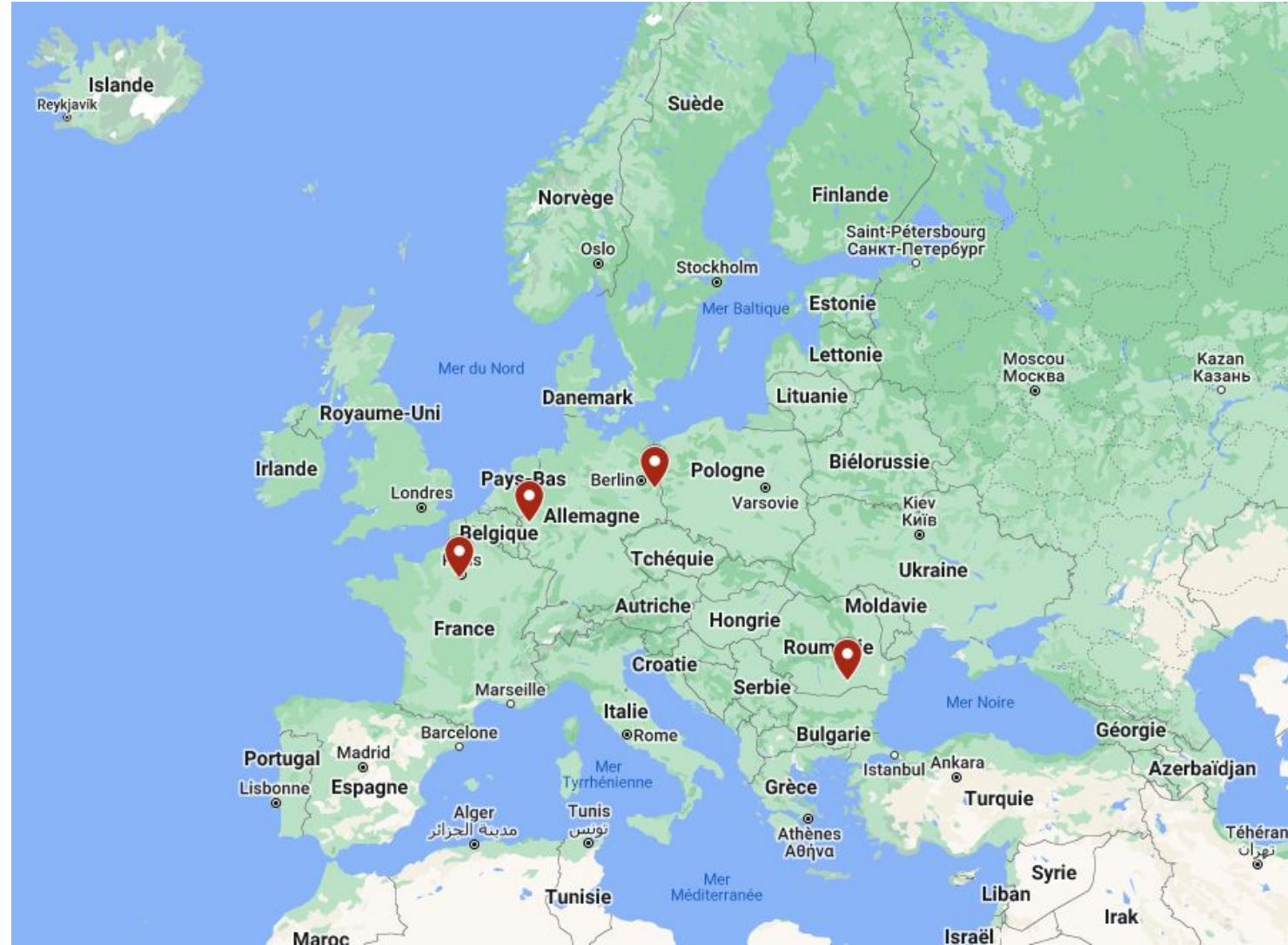
- 11 stages to reach initial acceptance:



Pilots for labellisation

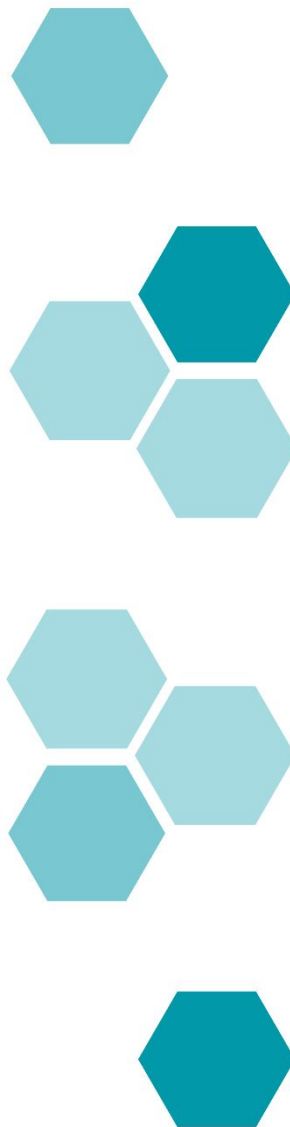
4 NFs were initially accepted for step 1A:

- France: SIRTA
- Germany: JOYCE
- Germany: Lindenberg
- Romania: RADO-Bucharest



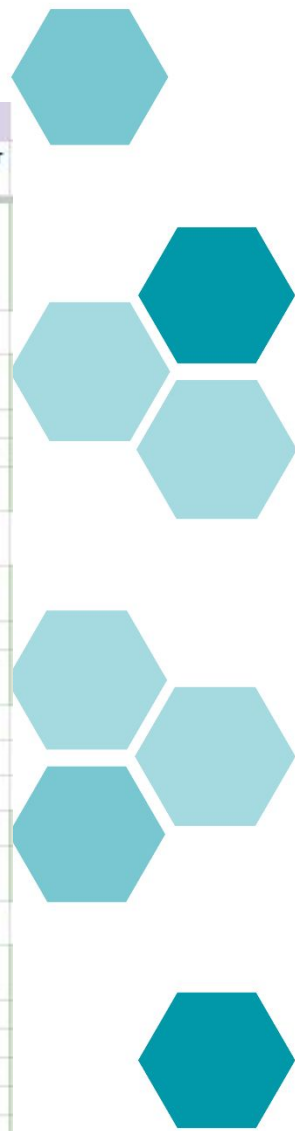
Readiness of observational platforms (planned in 2021)

			2021	2022	2023	2024	2025
Observational platforms							
Cyprus	Cyprus Atmospheric Remote Sensing Observatory CARO	Cyprus University of Technology & ERATOSTHENES Centre of Excellence	X				
Denmark	Villum Research Station	Aarhus University					X
Finland	Pallas Atmosphere-Ecosystem Supersite	FMI			X		
Finland	SMEAR II (Hyytiälä)	UHEL	X				
France	SIRTA	CNRS, CEA, EP, UVSQ	X				
France	OPAR, France-Belgian site	UR, CNRS					X
Germany	Cape Verde Atmospheric Observatory	TROPOS			X		
Germany	Jülich Observatory for Cloud Evolution (JOYCE)	UoC		X			
Germany	Melpitz Research Station	TROPOS					X
Germany	Meteorological Observatory Lindenberg (MOL-RAO)	DWD		X			
Germany	München	LMU				X	
Greece	PANGEA	NOA		X			
Italy	CIAO	IMAA-CNR	X				
Italy	Lampedusa	ENEA		X			
Italy	UNIAQ/CETEMPS	DSFC/CETEMPS/ Università degli Studi dell'Aquila		X			
Netherlands	Ruisdael Observatory: CABA UW	KNMI		X			
Poland	Rzecin	University of Life Sciences in Poznań/UW					
Poland	Warsaw	UW		X			
Romania	RADO-Bucharest	INOE	X				
Romania	RADO-Cluj	UBB			X		
Romania	RADO-Galati	UGAL			X		
Spain	Granada	IISTA-UGR	X				
Switzerland	Swiss Midland: Payerne(PAY) Beromuenster(BRM)	PSI/EMPA/MeteoSwiss					X
UK	Chilbolton Observatory	NCAS	X				
TOTAL			7	7	4	1	4

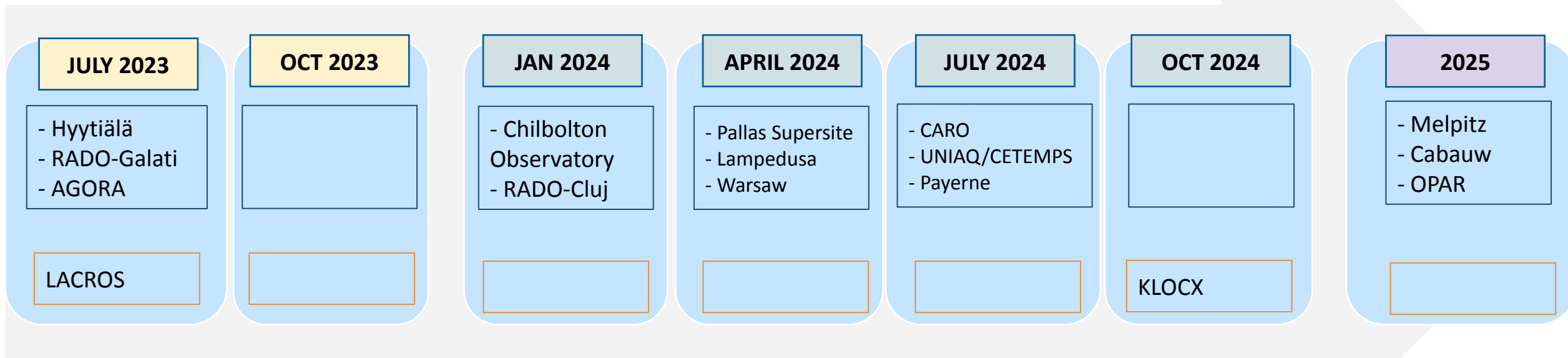


Readiness of Observational platforms (updated May 2023)

			2021	2022	2023			2024				2025				
					April 2023	July 2023	October 2023	Janv. 2024	April 2024	July 2024	October 2024	Janv. 2025	April 2025	July 2025	October 2025	
Cyprus	Cyprus Atmospheric Remote Sensing Observatory CARO	Cyprus University of Technology & ERATOSTHENES Centre of Excellence								X						
Denmark	Villum Research Station	Aarhus University														
Finland	Pallas Atmosphere-Ecosystem Supersite	FMI						X								
Finland	SMEAR II (Hyytiälä)	UHEL				X										
France	SIRTA	CNRS, CEA, EP, UVSQ			X											
France	OPAR, France-Belgian site	UR, CNRS											X			
Germany	Cape Verde Atmospheric Observatory	TROPOS														
Germany	Jülich Observatory for Cloud Evolution (JOYCE)	UoC			X											
Germany	Melpitz Research Station	TROPOS													X	
Germany	Meteorological Observatory Lindenberg (MOL-RAO)	DWD			X											
Germany	München	LMU														
Greece	PANGEA	NOA														
Italy	CIAO	IMAA-CNR														
Italy	Lampedusa	ENEA							X							
Italy	UNIAQ/CETEMPS	DSFC/CETEMPS/Università degli Studi dell'Aquila								X						
Netherlands	Ruisdael Observatory: CABA UW	KNMI														
Poland	Rzeczyn	University of Life Sciences in Poznań/UW														X
Poland	Warsaw	UW							X							
Romania	RADO-Bucharest	INOE			X											
Romania	RADO-Cluj	UBB							X							
Romania	RADO-Galati	UGAL				X										
Spain	Granada	IISTA-UGR					X									
Switzerland	Payerne(PAY)	PSI/EMPA/ MeteoSwiss								X						
Switzerland	Beromuenster(BRM)	PSI/EMPA/ MeteoSwiss														
UK	Chilbolton Observatory	NCAS							X							
TOTAL					4	2	1	3	2	3	0	0	1	1	1	
					7			8				3				



NFs labellisation process



OTHERS?

Labelling Step 1A

Fill all the information on the website
<https://actris-nf-labelling.out.ocp.fmi.fi/>



National facility Labelling Facilities Recent My facilities My components Log out

Jülich Observatory for Cloud Evolution (JOYCE) View details

Type
Observational platform

Country
Germany

Hosting institute
University of Cologne

Website
<http://www.joyce.cloud>

Contacts
Ulrich Löhnert
Facility PI

Description
Observational platform at an urbanized setting surrounded by forest, within rural lowlands amidst two large lignite mines and agricultural areas.

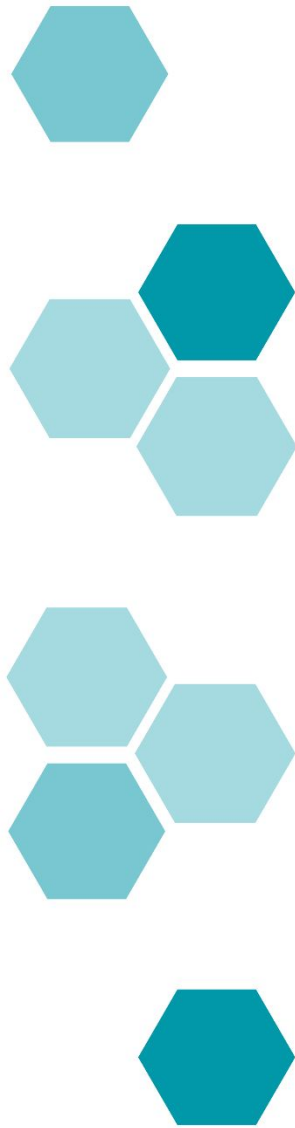
Scientific scope
The facility has been performing continuous ground-based remote sensing since 2011. Ground-based active and passive remote sensing instruments are used to observe cloud and precipitation as well as the atmospheric boundary layer structure. Temperature and humidity profiling measurements are carried out, as well measurements for obtaining horizontal and vertical winds including turbulence. The scientific objectives of JOYCE are to develop new methodologies for quantifying clouds and precipitation, perform model and satellite evaluation and to better understand the cloud life cycle an environment with multiple, complex influences.

Publications
Löhnert et al. (2015). JOYCE: Jülich Observatory for Cloud Evolution. *Bulletin of the American Meteorological Society*, 96(7), 1157-1174. <https://doi.org/10.1175/BAMS-D-14-00105.1>
[Full list of publications](#)

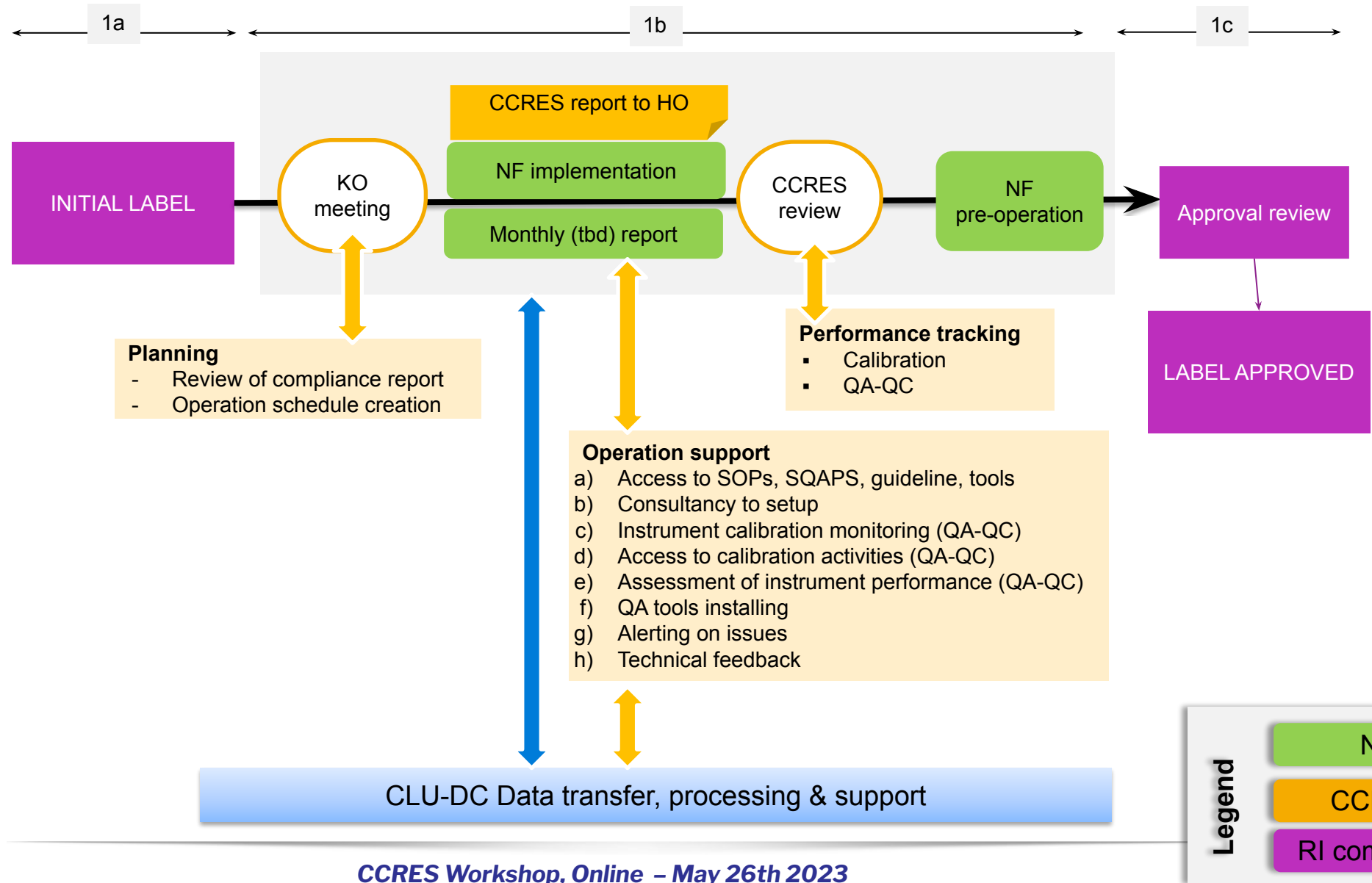
Components

Component type	Labelling status
Cloud remote sensing	Initially accepted in May 2023

Labelling Step 1B



Step 1b workflow

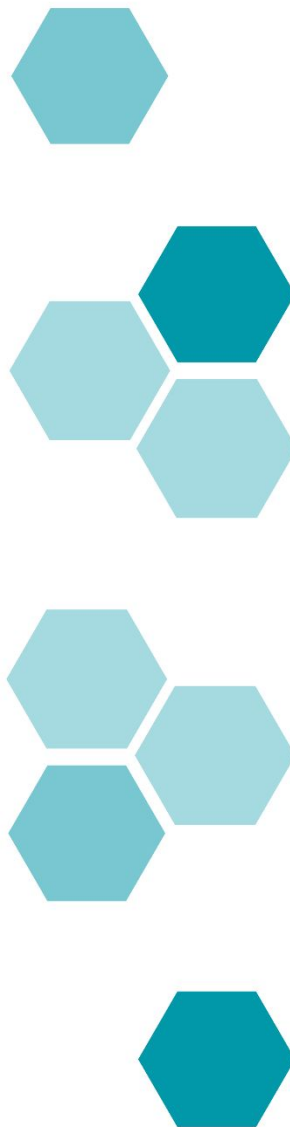


Step 1b activities

- Monitoring of HKD data (update from Marc-Antoine at March CCRES meeting)
 - Table to list all HKD parameters has been updated
 - Influx DB OK, work ongoing with Antoine
- DCR - disdrometer monitoring (progress from Jean-Charles and Yanis - code converted to python, figures showing quality control of monitoring conditions during rain events, extension to Lindenberg and Juelich, ...)
- CLU / CCRES meeting to develop quality control on CloudNet variables (Simo, Bernhard, Chris, Martial)
- MWR BT noise monitoring: developed at U. Col. → implementation at CLU (Tobias)
- ALC att. back, cbh. ALC optical overlap correction and calibration monitoring (Simone / Ina).
- DCR checking zenith alignment (Lukas, Chris, Felipe)
- DL: zenith alignment, check against wind measurements and model wind (Ewan)
- Where to display analysis of geo variables → CCRES/CLU website

Need a discussion on Legacy data

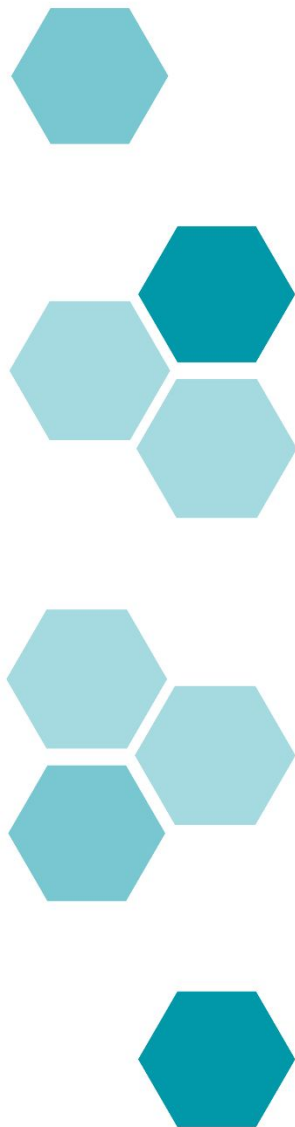
- Quality control of historical data
- Involve NFs in this process, uploading raw data, providing historical metadata?



Discussions









Thank you