



CAMAERA

CAMAERA ONLINE GA

10.12.2024

Samuel Remy and Rose-Cloé Meyer

HYGEOS, Lille, France



PROGRAMME OF
THE EUROPEAN UNION



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CAMAERA in a nutshell

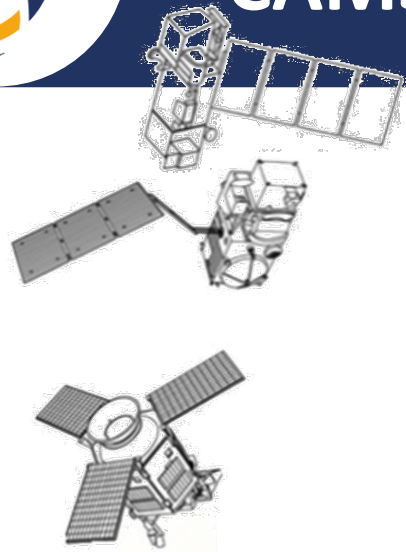
- **CAMS AERosol Advancement (CAMAERA)** is a Horizon Europe Project to support the development of the Copernicus Atmosphere Monitoring Service (CAMS)
- CAMS provides consistent and quality-controlled information about atmospheric composition relevant for air pollution, solar energy, greenhouse gases monitoring and climate forcing ...
- CAMAERA is one of a family of Horizon Europe projects dedicated to improving CAMS products:
 - **CAMEO** (started 1/1/2023, led by ECMWF), which focuses on uncertainties and data assimilation
 - **CATRINE** (started 1/1/2024, led by ECMWF), which focuses on transport applied to greenhouse gases

Scope of CAMAERA:

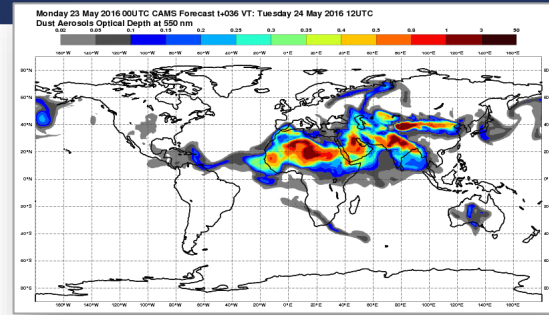
- Focus on aerosols and precursor gases
- Improve aerosol modeling capacities of regional and global systems
- Development of new data assimilation methods
- Foster exchanges between regional and global components of CAMS



CAMS in a nutshell

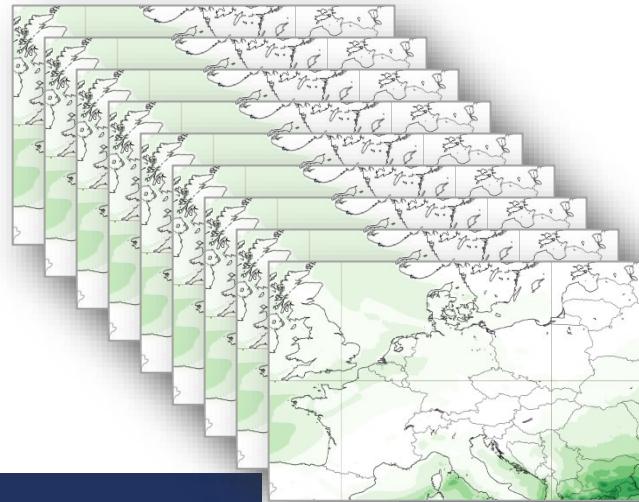


Earth Observation from satellite (>75 instruments) and in-situ (regulatory and research)

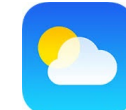
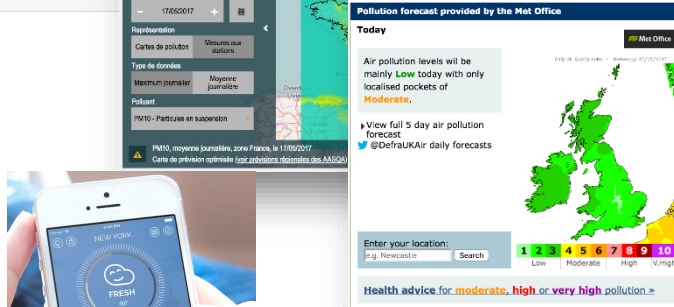
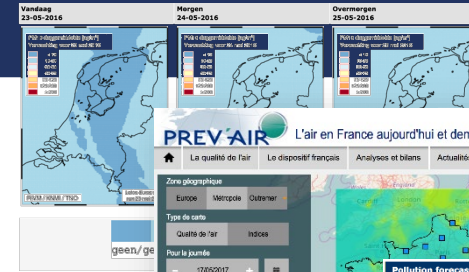


IFS 40km (oper) / 80km (reana) Global

CAMS main operational data assimilation and modelling systems

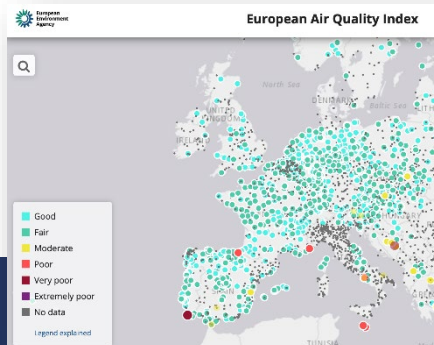


CAMAERA review meeting



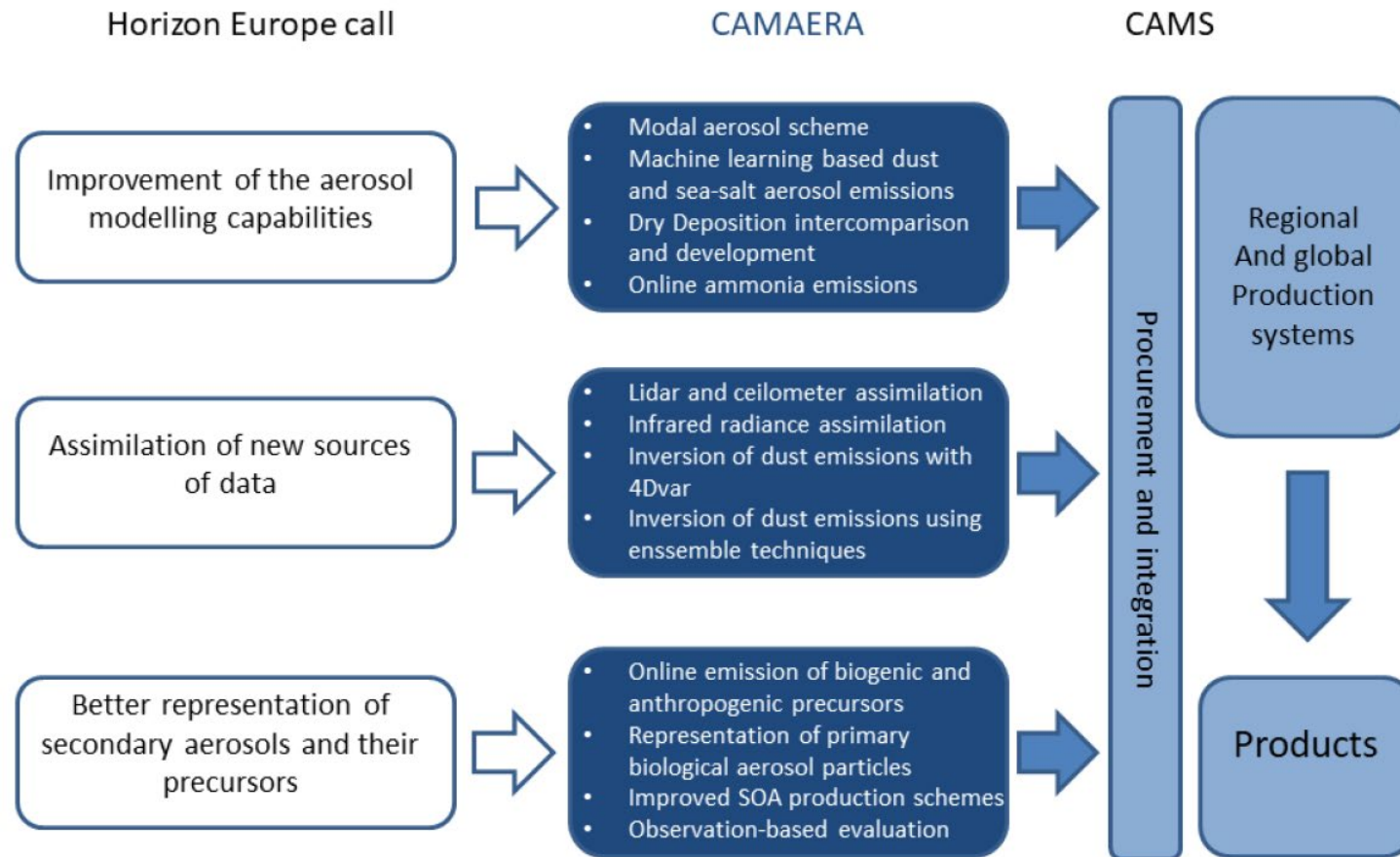
CAMS users

- Applications
- Policy products



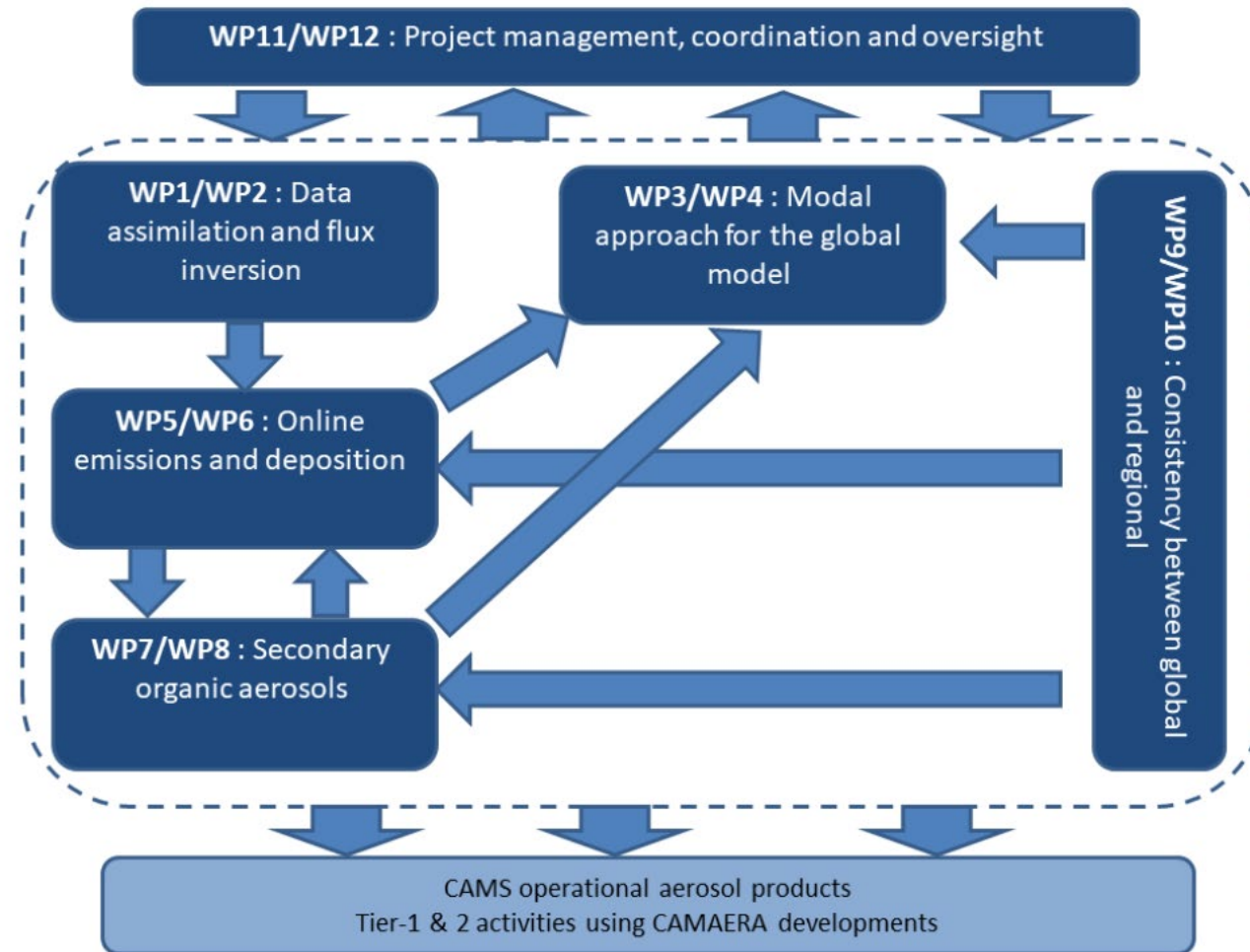


CAMAERA – pathway to impact





CAMAERA – organisation of work packages





CAMAERA partners





Online GA agenda

- 15 minutes presentations + 5 mn discussion
- Discussion time is also planned between 11:45 to 12:15 and 15:40 to 4:00PM
- Please raise your hand for questions (click on « reactions », bottom of the screen)
- The chat can also be used for questions and answers

CAMAERA online General Assembly - AGENDA

Time (CET)	Speaker	Topic
9:30 – 9 :45	Samuel Rémy (HYGEOS)	Welcome and introduction
9:45 – 10:05	Michael <u>Kahnert</u> (ECMWF)	Assimilation of E-PROFILE observations in IFS-COMPO ¹
10:05 – 10:25	Jeronimo Escribano (BSC)	Offline dust inversions
10:25 – 10:45	Tommi Bergman (FMI)	Implementation of M7 into <u>OpenIFS</u> : First results and implications for IFS-COMPO
10:45 – 11:05		Break
11:05 – 11:25	Andreas <u>Uppstu</u> (FMI)	A new wind-blown dust source in SILAM: simple approach works best
11:25 – 11:45	Rose-Cloé Meyer & Nathan Capon (HYGEOS)	Use of neural networks to simulate whitecap fraction in IFS-COMPO
11:45 – 12:15	All	Discussion
12:15 – 14:00		Lunch break
14:00 – 14:20	Vincent <u>Huijnen</u> (KNMI)	Implementation and first evaluations of online Biogenic Volatile Organic Compounds emissions in IFS-COMPO
14:20 – 14:40	Gunnar Lange (<u>METNorway</u>)	Implementing Primary Biogenic Aerosol Particles in regional and global scale models
14:40 – 15:00	Rose-Cloé Meyer (HYGEOS)	Impact of using regional emissions in IFS-COMPO
15:00 – 15:20	Samuel Rémy (HYGEOS)	High resolution simulations with IFS-COMPO
15:20 – 15:40		Break
15:40 – 16:00	All	Discussion
16:00 – 16:20	Samuel Rémy (HYGEOS) & all	Outreach and dissemination plans
16:20 – 16:35	Samuel Rémy (HYGEOS)	Wrap up and closure, action list