



## Deliverable 7.4: Report and actions arising from CARGO-ACT community meetings during RP1

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## Contents

1.	CARGO-ACT Kick-Off Meeting, Rennes, France, May 17, 2024.....	3
1.1	Scope and Overview .....	3
1.2	Agenda .....	3
1.3	Participants .....	4
1.4	Action Items .....	5
2.	CARGO-ACT Project Meeting and Stakeholder Workshop, Matera, Italy, November 8, 2024 ..	6
2.1	Scope and Overview .....	6
2.2	Agenda .....	6
2.3	Participants .....	7
2.4	Action Items .....	9

## 1. CARGO-ACT Kick-Off Meeting, Rennes, France, May 17, 2024

### 1.1 Scope and Overview

CARGO-ACT (HORIZON EUROPE) is a three-year project that started in March 2024. The project is intended to deliver a clear roadmap for sustainable global cooperation between key organisations in Europe and in the United States to provide all users, in the scientific community and beyond, with the best possible services for accessing and using information from monitoring climate- and air quality-relevant properties of aerosol, cloud and trace gases in the atmosphere. The purpose of this meeting was to gather the entire consortium together for the first time, including beneficiaries and Associate Partners, to provide an overview of the activities for the next three years and to identify the main challenges ahead. The meeting was held during the ACTRIS Science Conference 2024.

### 1.2 Agenda

#### 17 May 2024

0830	Registration
0900	Welcome and Project Overview (Ewan O'Connor, FMI)
0920	Communication and Administration (FMI)
0930	Introduction to CARGO-ACT Advisory committee
0935	WP4: Strategy for coordinating governance, agreements and aligning global objectives (CNR, NASA)
	Introduction to CARGO-ACT partner networks (10 mins + questions)
0945	ACTRIS (Eija Juurola, ACTRIS)
1000	ARM (Jennifer Comstock, PNNL)
1015	NFAN (Betsy Andrews, CIRES)
<b>1030</b>	<b><u>Coffee break</u></b>
1100	MPLNET (Judd Welton, NASA)
1115	ASCENT (Nga Lee (Sally) Ng, Georgia Tech)
1130	Discussion: network overlaps and other networks to approach
1150	<b>Invited talk:</b> GHOST - A globally harmonised dataset of surface atmospheric

composition measurements (Dene Bowdalo, BSC)

- 1210 WP1: Data interoperability (NILU, ORNL)  
 Report from WP1 meeting (3 May 2024)
- 1230 Lunch**
- 1330 WP2: Specification and documentation of common operation procedures and  
 data quality methodologies (TROPOS, INOE)
- 1350 WP3: Pilot implementations demonstrating service integration (CNRS, CIRES)
- 1400 WP5: Strategy for enabling common access (CNRS, PNNL)
- 1415 WP6: Roadmap and strategic guidance for upscaling (UHEL, PNNL)
- 1425 Discussion: stakeholders to approach
- 1445 Wrap Up
- 1500 Close**

### 1.3 Participants

First name	Surname	Institution
Honey Dawn	Alas	TROPOS
Elisabeth	Andrews	NOAA and University of Colorado
Eija	Asmi	Finnish Meteorological Institute
Livio	Belegante	INOE
Dene	Bowdalo	Barcelona Supercomputing Center
Sophie	Cloch�e	CNRS
Jennifer	Comstock	ARM / Pacific Northwest National Laboratory
Martine	De Maziere	Royal Belgian Institute for Space Aeronomy (BIRA-IASB)
Martial	Haeffelin	IPSL / CNRS
Eija	Juurola	ACTRIS ERIC
Jasper	Lewis	University of Maryland Baltimore County/GESTAR2
James	Mather	Pacific Northwest National Laboratory
Ina	Mattis	DWD
Olga	Mayol-Bracero	Brookhaven National Laboratory

Lucia	Mona	CNR IMAA
Nga Lee	Ng	Georgia Institute of Technology
Doina	Nicolae	INOE
Ewan	O'Connor	FMI
Matilde	Oliveri	CNRS
Mikhail	Paramonov	ACTRIS ERIC
Tuukka	Petäjä	University of Helsinki
Jean-Eudes	Petit	CEA
Rosa Maria	Petracca Altieri	ACTRIS HO/SAMU @CNR
Sabine	Philippin	CNRS
Giri	Prakash	ORNL
Jean-Francois	Ribaud	IPSL
Therese	Salameh	IMT Nord Europe
Anna	Salonen	ACTRIS ERIC
Loredana	Spezzi	EUMETSAT
Marbach	Thierry	Eumetsat
Elisa	Villard	IPSL, CNRS
Kay	Weinhold	TROPOS
Ellsworth J.	Welton	NASA
Alfred	Wiedensohler	TROPOS

## 1.4 Action Items

Discussion on the following subjects took place:

- alignment of vocabulary with ACTRIS
- DOIs, technical specifications of data processing
- network overlaps and other networks of interest, e.g. NEON NSF, LALINET, SPARTAN
- alignment of various workshops and meetings
- complexity of US networks and entities

## 2. CARGO-ACT Project Meeting and Stakeholder Workshop, Matera, Italy, November 8, 2024

### 2.1 Scope and Overview

CARGO-ACT (HORIZON EUROPE) is a three-year project that started in March 2024. The project is intended to deliver a clear roadmap for sustainable global cooperation between key organisations in Europe and in the United States to provide all users, in the scientific community and beyond, with the best possible services for accessing and using information from monitoring climate- and air quality-relevant properties of aerosol, cloud and trace gases in the atmosphere. The purpose of this meeting was to engage the CARGO-ACT international stakeholders and discuss CARGO-ACT possibilities and future pathways, as well as to attend to the ongoing project processes, identify potential bottlenecks and set contingency plans in place. The meeting was held during the ACTRIS Week 2024.

### 2.2 Agenda

#### Joint workshop with network coordinators and international stakeholders

House of Emerging Technologies, Via San Rocco 1, 75100, Matera

Conference Room 2 on the fourth floor

16:00-18:30 CET / 10:00-12:30 EST

1600 Welcome and introduction to CARGO-ACT Ewan O'Connor

1615 Stakeholder and network perspectives

NDACC Thierry Leblanc

AEROCOM Michael Shulz

CAMS and ECMWF Richard Engelen

EUMETSAT Thierry Marbach

DoE Sally McFarlane

17:15-17:30 – coffee break

1730 GALION Judd Welton

SHADOZ Ryan Stauffer

ESA Rob Koopman / Angelika Dehn

WMO Paolo Laj  
Discussion All  
1830 Close

### **CARGO-ACT Project Meeting**

Hotel San Domenico Al Piano, via Roma, 15 75100 Matera, to be held together with dinner  
19:00-21:00 CET / 13:00-15:00 EST

1900 Welcome  
1905 Response to stakeholder perspectives  
Common requirements  
Common challenges  
2000 Milestones and deliverables  
Challenges and bottlenecks  
2040 Next meetings  
2050 Wrap up  
2100 Close

## **2.3 Participants**

<b>First Name</b>	<b>Last Name</b>	<b>Affiliation</b>
Honey	Alas	TROPOS
Elisabeth	Andrews	University of Colorado, NOAA/GML
Eija	Asmi	FMI
Angela	Benedetti	ECMWF
Jennifer	Comstock	PNNL
Carmela	Cornacchia	CNR
Martine	De Maziere	Royal Belgian Institute for Space Aeronomy
Angelika	Dehn	ESA/ESRIN
Belay	Demoz	UMBC

Markus	Fiebig	NILU
Martial	Haeffelin	IPSL / CNRS
Rob	Koopman	ESA
Paolo	Laj	WMO
Thierry	Leblanc	Jet Propulsion Laboratory, California Institute of Technology
Jasper	Lewis	University of Maryland Baltimore County/GESTAR2
Belegante	Livio	INOE
Thierry	Marbach	EUMETSAT
James	Mather	Pacific Northwest National Laboratory/DOE ARM Facility
Ina	Mattis	DWD
Olga	Mayol-Bracero	BNL
Sally	McFarlane	U.S. Department of Energy
Lucia	Mona	CNR
Anca	Nemuc	National Institute of Research and Development for Optoelectronics INOE
Doina	Nicolae	INOE
Ewan	O'Connor	FMI
Mikhail	Paramonov	ACTRIS ERIC
Tuukka	Petäjä	University of Helsinki
Rosa Maria	Petracca Altieri	CNR
Sabine	Philippin	CNRS
Giri	Prakash	ARM - ORNL
Jean-Francois	Ribaud	IPSL
Anna	Salonen	ACTRIS ERIC
Michael	Schulz	Norwegian Meteorological Institute
Ryan	Stauffer	NASA/GSFC
Roeland	Van Malderen	Royal Meteorological Institute of Belgium
Jeni	Vasilescu	National Institute of Research and Development for Optoelectronics INOE
Elisa	Villard	CNRS/IPSL

Kay	Weinhold	TROPOS
Ellsworth	Welton	NASA
Alfred	Wiedensohler	TROPOS
Damao	Zhang	Pacific Northwest National Laboratory

## 2.4 Action Items

### Joint workshop with network coordinators and international stakeholders

- Stakeholders should be included in the future discussions and meetings, and another meeting with the stakeholders should be planned in the future, similar to the one held in Matera.
- A discussion about the issue of increasing number of data portals vs. interoperability. Data should preferably be in one place, but metadata can be in several places.

### CARGO-ACT Project Meeting

- CARGO-ACT project is fast paced and quite challenging. Would it be possible, for example, to converge on one data format? A closer look is needed at the in-situ and remote sensing variables; it would show the commonalities and outliers. Such matrix already exists as MS1.
- Regular interactions with the stakeholders are needed.
- Aim towards the interoperability of data. If the convergence is demonstrated, others can join.
- Harmonisation efforts for in-situ are further along than for the remote sensing; an impact on WP2 deliverables is to be expected. It is also important to keep licensing in mind.
- It is needed to combine the existing technical solutions, and there is info about which datasets are being used. Tiered resources and cooperation with e-Ris are mentioned.
- Spatial representation and access are important.
- A shared repository is needed, as are the mailing lists. Two mailing lists already exist: one for consortium and another one for EB. If WP-specific mailing list are required, WP leaders are to contact coordination.
- One EB meeting is to be held this year still.