Deliverable 11.6: Minutes of ACTRIS IMP meetings in 2022

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1. 2022 Spring ACTRIS IMP Meeting, virtual, April 20-21, 2022

1.1 Scope and Overview

ACTRIS Implementation Project IMP (EU H2020 2020-2023) is a four-year project that started in January 2020. The project is intended as the implementation phase of ACTRIS and for ACTRIS to become part of the European Research Infrastructure Consortium (ERIC). The purpose of this meeting was to get the ACTRIS IMP consortium together, including beneficiaries, linked third parties, associate partners and SIAB members. The 2022 Spring ACTRIS IMP Meeting was intended as a project-specific meeting with a focus on the IMP Project and how it supports the implementation of ACTRIS. Annual ACTRIS IMP General Assembly took place as part of the meeting as well.

1.2 Agenda

BRU Time	Wed Apr 20	Thu Apr 21	FIN Time
09:00-09:30	Introduction (Eija Juurola)	Focus on Remote and Physical Access as a core activity of ACTRIS (Rosa Petracca and Sabine Philippin)	10:00-10:30
09:30-10:00	IMP General Assembly (Mikhail Paramonov)		10:30-11:00
10:00-10:30	National and regional ACTRIS activities (Tuukka Petäjä)		11:00-11:30
10:30-11:00	Break	Break	11:30-12:00
11:00-11:30	Long-term sustainability (Niku Kivekäs and Pirjo Kontkanen)	Innovation and cooperation with the private sector (Carmela Cornacchia, Jochen Ernst Wagner, Stéphane Sauvage)	12:00-12:30
11:30-12:00			12.30-13:00
12:00-12:30	Lunch break		13:00-13:30
12.30-13:00			13.30-14:00
13:00-13:30	Implementation of Central Facilities (Doina Nicolae and CF Leaders)	Community engagement (Niku Kivekäs, Ulla Wandinger, Giulia Saponaro and Mikhail Paramonov)	14:00-14.30
13.30-14:00			14.30-15:00
14:00-14.30			15:00-15:30
14.30-15:00	Break	Concluding remarks (Eija Juurola)	15.30-16:00
15:00-15:30	NF Labelling Plan (Ulla Wandinger and Niku Kivekäs)		16:00-16:30
15.30-16:00			16:30-17:00
16:00-16:30			17:00-17:30
16:30-17:00			17:30-18:00

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1.3 Participants

First Name	Last Name	Affiliation	Country
Martine	De Maziere	Royal Belgian Institute for Space Aeronomy	Belgium
Bart	Dils	BIRA-IASB	Belgium
Tanja	Dreischuh	Institute of Electronics, Bulgarian Academy of Sciences	Bulgaria
Tsvetina	Evgenieva	Institute of Electronics, Bulgarian Academy of Sciences	Bulgaria
Ivan	Grigorov	Institute of Electronics at the Bulgarian Academy of Sciences	Bulgaria
Nina	Nikolova	INRNE-BAS	Bulgaria
Liliya	Valkova	Institute of Electronics, BAS	Bulgaria
Andri	Charalambous	The Cyprus Institute	Cyprus
Maximilien	Desservettaz	The Cyprus Institute	Cyprus
RODANTHI	MAMOURI	Cyprus University of Technology and ERATOSTHENES Centre of Excellence [CUT-ECoE]	Cyprus
Marina	Papageorgiou	The Cyprus Institute	Cyprus
Michael	PIKRIDAS	The Cyprus Institute	Cyprus
jean	sciare	The Cyprus Institute	Cyprus
Jakub	Ondracek	ICPF CAS	Czech Republic
Petra	Pribylova	Masaryk University, Brno	Czech Republic
Petra	Ruzickova	Masaryk University, Brno	Czech Republic
Pavel	Sedlak	Institute of Atmospheric Physics of the Czech Academy of Sciences	Czech Republic
Milan	VГЎE€a	Czech Hydrometeorological Institute	Czech Republic
Henrik	Skov	Aarhus University	Denmark
Fabrizia	Cavalli	European Commission - Joint Research Centre	EC
Jean Philippe	Putaud	EC-JRC	EC
Antti	HyvГ¤rinen	Finnish Meteorological Institute	Finland
Silja	HГ¤me	University of Helsinki	Finland
Eija	Juurola	Finnish Meteorological Institute	Finland
Niku	KivekГ¤s	Finnish meteorological Institute	Finland
Terhi	Kontkanen	ACTRIS HO	Finland
Pirjo	Kontkanen	University of Helsinki	Finland
Katrianne	Lehtipalo	University of Helsinki / FMI	Finland
Ulpu	Leijala	FMI	Finland
Mikhail	Paramonov	FMI	Finland
Tuukka	PetГ¤jГ¤	University of Helsinki	Finland
Anna	Salonen	Finnish Meteorological Institute	Finland
Giulia	Saponaro	Finnish Meteorological Institute/ACTRIS HO	Finland

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Guillaume	Brissebrat	CNRS	France
Jean-Pierre	CAMMAS	CNRS OSU-Reunion	France
Didier	Crozel	Cimel Electronique	France
VГ©ronique	DaГ«le	CNRS/ICARE	France
Ariane	Dubost	CNRS LaMP	France
Olivier	FAVEZ	INERIS	France
Philippe	Goloub	LOA-CNRS-U. LILLE	France
Yenny	Gonzalez Ramos	CIMEL Electronique / IzaГ±a Atmospheric Research Centre	France
Patrice	HENRY	CNES	France
Vincent	Kretz	CNRS	France
Nicolas	MOYRAND	CIMEL ELECTRONIQUE	France
Matilde	Oliveri	CNRS	France
Sabine	Philippin	CNRS	France
Bénédicte	Picquet-Varrault	UPEC	France
Anne	Priem	CNRS CARS	France
Therese	Salameh	IMT Nord Europe	France
StГ©phane	Sauvage	IMT	France
Florian	DahlkГ¶tter	TSI GmbH	Germany
Harald	Flentje	Deutscher Wetterdienst	Germany
Ulrich	GГ¶rsdorf	Deutscher Wetterdienst, Meteorologisches Observatorium Lindenberg	Germany
Bryan	Hellack	German Environment Agency	Germany
Markus	Kayser	Deutscher Wetterdienst, Lindenberg Meteorological Observatory - Richard AГµmann Observatory	Germany
Volker	Lehmann	DWD	Germany
Tobias	Marke	University of Cologne	Germany
Ina	Mattis	DWD	Germany
Falk	Mothes	Leibniz Institute for Tropospheric Research (TROPOS)	Germany
Ottmar	MГ¶hler	Karlsruhe Institute of Technology (KIT)	Germany
Dennis	Niedermeier	TROPOS (Leipzig, Germany)	Germany
Anna	Novelli	Institute of Energy and Climate Research, IEK-8: Troposphere, Forschungszentrum JГјlich GmbH, JГјlich, Germany	Germany
Lukas	Pfitzenmaier	University of Cologne	Germany
Bernhard	Pospichal	University of Cologne	Germany
Stephanie	Schuettauf	CAIS-ECAC, WCCAP	Germany

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Patric	Seifert	Leibniz Institute for Tropospheric Research (TROPOS)	Germany
Ralf	Tillmann	Forschungszentrum JГjlich GmbH	Germany
Torsten	Tritscher	TSI GmbH	Germany
Ulla	Wandinger	TROPOS	Germany
Konstantina	Efstathiou	RAYMETRICS SA	Greece
Konstantinos	Eleftheriadis	NCSR Demokritos	Greece
Eleni	Liakakou	National Observatory of Athens	Greece
Konstantinos	Michailidis	Aristotle University of Thessaloniki	Greece
Nikolaos	Mihalopoulos	National observatory of Athens	Greece
Sebastian	Mirasgedis	National Observatpry of Athens	Greece
Spyros	Pandis	FORTH	Greece
Kalliopi	Petrinoli	ACTRIS IMP	Greece
STERGIOS	VRATOLIS	NCSR DEMOKRITOS	Greece
Darius	Ceburnis	National University of Ireland Galway	Ireland
Emmanuel	CHEVASSUS	NUIG-C-CAPS	Ireland
Kirsten	Fossum	NUI Galway	Ireland
John	Wenger	University College Cork	Ireland
Aldo	Amodeo	CNR-IMAA (Italy)	Italy
Massimo	Chiari	INFN Sezione di Firenze	Italy
Daniele	Contini	Istituto di Scienze dell'Atmosfera e del Clima, ISAC-CNR, Lecce	Italy
Carmela	Cornacchia	CNR-IMAA	Italy
Claudio	Dema	CNR IMAA	Italy
Simone	Gagliardi	CNR	Italy
Giuseppe	Gargano	CNR-IMAA	Italy
Teresa	Laurita	IMAA-CNR (Tito Scalo, Potenza, Italia)	Italy
Angela	Marinoni	CNR-ISAC	Italy
Lucia	Mona	CNR	Italy
Francesca	Morrongiello	IMAA-CNR	Italy
Maria Rita	Perrone	University of Salento	Italy
Rosa Maria	Petracca Altieri	CNR	Italy
Francesca	Ricciardi	CNR-IMAA	Italy
Carlo	Rizzuto	CERIC-ERIC	Italy
Salvatore	Romano	University of Salento	Italy
Florin	Unga	CNR-ISAC, Lecce	Italy
Paul	Eckhardt	NILU	Norway
Markus	Fiebig	NILU - Norsk Institutt for Luftforskning	Norway
Ann Mari	FjГ¦raa	NILU	Norway

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Γ ystein	Hov	Norwegian Meteorological Institute	Norway
Yong	Lin	Norwegian Institute for Air Research	Norway
Cathrine	Lund Myhre	NILU	Norway
Chris	Lunder	Norwegian Institute for Air Research	Norway
Richard	Rud	NILU	Norway
Tove	Svendby	NILU - Norwegian Institute for Air Research	Norway
Mariola	Jablonska		Poland
Krzysztof	Klejnowski		Poland
Maciej	Marlega	NGLab Sp. z o.o.	Poland
Pablo	Ortiz	UW	Poland
Aleksander	Pietruczuk	Institute of Geophysics PAS	Poland
Patryk	Poczta	Poznan University of Life Sciences	Poland
Iwona	Stachlewska	University of Warsaw, Faculty of Physics	Poland
Daniele	Bortoli	University of Evora	Portugal
Nicu	Becherescu	Apel Laser	Romania
JesΓes	Abril-Gago	University of Granada	Spain
Lucas	Alados-Arboledas	IISTA-CEAMA University of Granada	Spain
Andres	Alastuey	IDAEA-CSIC	Spain
ΓΎfrica	Barreto	METEOROLOGICAL STATE AGENCY OF SPAIN	Spain
Adolfo	Comeron	Universitat Politecnica de Catalunya	Spain
Juan Luis	Guerrero Rascado	University of Granada	Spain
Francisco	Molero	CIEMAT	Spain
Amalia	MuΓ±oz	CEAM	Spain
Natalia	Prats	IARC-AEMET	Spain
Alejandro	Rodriguez-Gomez	Universitat Politecnica de Catalunya (Barcelona, Spain)	Spain
MILA	RΓ“DENAS GARCΓΎA	FUNDACIΓ“N CEAM	Spain
Michael	Sicard	UPC	Spain
Mar	Sorribas	ESAt-El Arenosillo - National Institute for Aerospace Technology (INTA)	Spain
Carlos	Toledano	University of Valladolid	Spain
Margarita	Yela	National Institute for Aerospace Technology / Instituto Nacional de Técnica Aeroespacial (INTA)	Spain
Anna Maria	Johansson		Sweden
Radovan	Krejci	Stockholm University	Sweden
Erik	Swietlicki	Lund University	Sweden
David	Bell	Paul Scherrer Institute	Switzerland
Benjamin	Brem	Paul Scherrer Institute	Switzerland

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Stefan	Reimann	EMPA	Switzerland
Arnoud	Apituley	KNMI	The Netherlands
arnoud	frumau	TNO	The Netherlands
Herman	Russchenberg	Delft University of Technology	The Netherlands
Christine	Braban	UK Centre for Ecology and Hydrology	United Kingdom
Detlef	Mueller	University of Hertfordshire	United Kingdom
Geraint	Vaughan	University of Manchester	United Kingdom
Chris	Walden	UKRI Chilbolton Observatory	United Kingdom

1.4 Action Items

Wednesday April 20th

Introduction

The session was attended by 96 (09:27 CEST) participants.

- ACTRIS was recognized as a mature RI by ESFRI (landmark) last autumn – an important milestone.
- ACTRIS IMP first review: widening of the ACTRIS landscape especially to outside of the EU is a task for ACTRIS RI also, not only for ACTRIS IMP.

National and Regional ACTRIS Activities

The session was attended by 108 (10:26 CEST) participants.

- ACTRIS Innovation workshop part of the European Green week
    - It would be a good idea to advertise ATMOTECH and describe some activities, the developer of the technologies should consider this. The technologies will be developed anyhow even if the project is not funded.
    - Innovations are developed also apart from ACTRIS - other projects, also local ones, could be considered and presented under the umbrella of ACTRIS. It is important to mention and to show the benefit to ACTRIS activities.
- Structural support and connection to pan-European ACTRIS
    - We need to keep close connections and good contacts to national levels.
    - Different projects help to keep track of what is needed to be developed at national levels. E.g. RI URBANS.
- Regional partner facilities
    - Discussions within WP3, WP5 and WP1 are needed.
    - In RI-URBANS there is a concrete collaboration on air quality controlling networks, and it could benefit ACTRIS also. Should there be a partnership agreement as a task? There is impact and opportunity for ACTRIS on a small scale (city by city). It would be good to describe and think how ACTRIS can support scaling. It is a good opportunity for ACTRIS to show its impact and benefits to other projects.

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- ACTRIS service provided for society is estimated in WP4 (survey). Summary of WP3 report could be included here also.

Long-Term Sustainability
The session was attended by 102 (11:34 CEST) participants.

- No discussion / action points.

Implementation of Central Facilities
The session was attended by 96 (13:15 CEST) participants.

- Progress of HO (Eija Juurola)
  - No discussion/action points.
- Implementation of ACTRIS Data Centre (Cathrine Lund Myhre)
  - The work that ACTRIS Technical Collaboration Group is doing on "web-based NFTC-DC workflow management tool" is highly important for ACTRIS operations but the challenge is that there is no dedicated funding on this work. We should make this topic a priority. A working group meeting (physical) should be organized to tackle this issue.
- Progress of CAIS-ECAC (Jakub Ondracek)
  - The estimated number of NFs to be labelled is quite high. The 2021 facilities need to be evaluated as well, so the total is about 60 for these years. This is is quite time-demanding, and it is unlikely we would be able to do 60 NF initial audits within 1.5 years. It will most probably take a bit longer. For some of the well-established NFs we are doing only a remote audit, and it saves time.
  - The partial operation of some ECAC units should not be otherwise delaying the auditing/labelling process, since the knowledge is in place. It may rather influence a bit the regular calibration/intercomparison workshops.
- Progress of CARS (Doina Nicolae)
  - No discussion/action points.
- Progress of CIS (Ottmar Möhler)
  - We need to work on important IT tasks (data production) not only on the side, but as an engaged activity. This issue will be discussed in the management board meeting.
- Progress of CCRES (Bernhard Pospichal)
  - No discussion/action points.
- Progress of CiGas (Therese Salameh)
  - No discussion/action points.
- Progress of CREGARS (Bart Dils)
  - The non-readiness of the units is not foreseen to cause delays in the labelling because there are not enough NFs to label.
- Concluding remarks (Doina Nicolae): We could think of incorporating workshops into bigger ACTRIS events to have the ACTRIS community informed. It is important for us to discuss and develop this further: a shared calendar with the central facilities could be set up.

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NF Labelling Plan
The session was attended by 89 (15:16 CEST) participants.

- Overview of National Facilities and Labelling process (Ulla Wandinger)
  - Half of the facilities should start the labelling process soon.
  - SIRTA may be ready also for the ARS component labelling. It can be included in the pilot.
- Labelling Plan (Niku Kivekäs)
  - All the topical centres are dealing with different type of national facilities, thus we can provide a general evaluation report template but it needs to be modified by the topical centres. Submission of the report is handled through the interface.
- Demonstration of the Labelling interface (Niku Kivekäs)
  - There is an initial password system: national PI gets the access to fill the information on the facility and technical forms. The same person is able to edit the data. The general information is not expected to change a lot. HO is collecting the technical information for the topical centres. When we have instrument IDs in place, they can be connected to the system.
  - The idea is that you press the "Save" button even if not everything is in place. When all the info is there, you push the "Submit" button (then it is ready, and we may proceed with the facility).
  - It is possible to have 2 PIs from 2 different hosting institutes, and it is expected that there will be such situations.
- Technical form in the interface is a simple one. Detailed technical questionnaire is the responsibility of the topical centres and something that topical centres are expected to send to the NF.

Thursday April 21st
Focus on Remote and Physical Access as a Core Activity of ACTRIS
The session was attended by 94 (10:09 CEST) participants.

- Discussion about whether contacting the TNA providers should be more mandatory. ACTRIS is a diverse set of facilities, so the user needs to contact a specific provider to have more information. Some actions are maybe needed to be able to reach the facility. Users are warmly recommended to contact before applying, but not as a mandatory requirement as it could maybe decrease the number of applications.
- The third TNA call is only for the pilots as it is complicated for the reporting and finances. But ATMO-ACCESS TNA calls are also open.
- Discussion about reaching the users
  - Potential users of the ACTRIS services will be informed via the Catalogue of Services that includes all the services for the users. Catalogue will be largely communicated.

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  - It is not easy to reach users even if the access provision has continued for years and years. It is necessary to always contact users again and again and give the same information every year. Potential users hardly get aware of the existence of the services even if they are interested. Is there a strategy to reach the users?
  - Publishing of the information is not enough. Access providers are the key players in this as they know their user groups. Information should also be distributed in many parallel ways and means. Reminders are needed. User awareness and centralised communication is needed.
  - It is an important task to plan the communication strategy: multi-channel communication needed for the diverse user groups.
- KPIs are important. HO is also working at an RI level. We need to find the goal and the level needed. KPIs can also change in the operational phase. GA also defines the targets and helped to create the KPIs.
- There should be enough time allocated as we have several processes in parallel in different projects. We need to go further than the Catalogue of Services and also educate the users to understand our services. It is also a means to engage potential users. We need to be more aggressive to organise meetings and discussions and speak the language the users understand. Then they will be interested. E.g. ESA is a gateway to other users.

Innovation and Cooperation with the Private Sector
The session was attended by 88 (11:11 CEST) participants.

- There are very few private companies from Eastern Europe. This is something that can be improved.

Community Engagement
The session was attended by 79 (13:36 CEST) participants.

- We need to consider how we handle future community meetings. We should also consider that the pandemic is likely ending. Carbon footprint!
- We need both technical and thematic workshops. We have too many events. We should optimise. We should keep in mind that more meetings are coming up. ACTRIS Science Conference should be a separate event. We need a clearer meeting structure, concentrating more meetings into one timeframe. To be discussed within HO and further.
- We should use ESFRI handle when twitting/twittering/using Twitter.

Concluding Remarks
The session was attended by 75 (14:13 CEST) participants.

- Community should give feedback to WP3, see National and Regional Activities session presentation.
- Keep an eye on the next TNA call.
- Be active, provide feedback!

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- ACTRIS Community mailing list can be used by everyone, not just HO.

1.5 Third General Assembly Meeting Minutes

The third ACTRIS IMP General Assembly took place on April 20th virtually during the 2022 Spring ACTRIS IMP Meeting.

AGENDA

1. Opening of the meeting

Mikhail Paramonov opened the meeting at 10:32 EEST. The Agenda has been sent to all the Beneficiaries. The Agenda was approved.

2. Quorum and voting rights (For information)

30 of the 35 members of the General Assembly were represented. 1 member UVA was represented by proxy, LTP AEMET. BIRA-IASB, UMAN, MUI and EULS were not represented.

Each Member of the General Assembly has one vote, and all votes are equal. Decisions shall be taken by a majority of 2/3 of the votes cast.

3. Confirmation of the chair and the secretary of the meeting (For approval)

Based on the Consortium Agreement the Coordinator shall chair all meetings of the General Assembly, unless decided otherwise in a meeting of the General Assembly. Coordinator Eija Juurola has proposed that Project Manager Mikhail Paramonov shall chair the 3rd General Assembly meeting (virtual 20.04.2022). Mikhail Paramonov was decided to chair the meeting.

4. Acceptance of the new ACTRIS IMP Associate Partners (For approval)

Two new Associated Partners were approved by the General Assembly without any objections.

5. ACTRIS IMP WP8 Amendment (For approval)

The leader of the task 8.2 would like to request for an amendment to change the dissemination level of the deliverable **D8.3 "Assessment of ACTRIS contribution to, and alignment of ACTRIS policies with, international networks and initiatives, incl. GEOSS and COPERNICUS"** from public to confidential. Request for an Amendment will be submitted to EC in April 2022.

The document, which is currently scheduled to be submitted in April 2022, will describe modalities by which ACTRIS interacts with international networks. The deliverable will integrate information that will concern third parties and that are meant to stay internally in ACTRIS, before being released in a strategic way. It is, therefore, considered a confidential document for the RI and for the future ACTRIS ERIC which will decide how the document will be taken into action. Due to the confidential nature, it is, therefore,

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justified to keep deliverable D8.3 as an internal document and not to be available publicly on the project website.

The Amendment was approved without any objections.

6. Reporting (For information)

The 2nd ACTRIS IMP reporting period ends in December 2022:
RP1 month 1 – month 18 (1.1.2020 - 30.6.2021)
RP2 month 19 – month 36 (1.7.2021 - 31.12.2022)
RP3 month 37 – month 48 (1.1.2023 - 31.12.2023)

Periodic reports (both technical and financial) are due up to 60 days after the end of the reporting period, i.e., **by March 1st, 2023**.

Financial reporting can start only when RP1 ends, i.e., after December 31st, 2022. Technical reporting can start earlier and will commence already in November.

Reporting guidelines will be sent out in November.

Financial guidelines were described in more detail.

7. AOB

No other business.

8. Closing of the meeting

Mikhail Paramonov closed the General Assembly meeting at 10:44 EEST.

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2. ACTRIS Week 2022, Prague, Czech Republic, October 24-27, 2022

2.1 Scope and Overview

ACTRIS Implementation Project IMP (EU H2020 2020-2023) is a four-year project that started in January 2020. The project is intended as the implementation phase of ACTRIS and for ACTRIS to become part of the European Research Infrastructure Consortium (ERIC). The aim of the ACTRIS Week 2022 was to bring the wider ACTRIS Community together and to update the community about the most recent and ongoing ACTRIS progress and challenges. ACTRIS Week 2022 was the first in-person ACTRIS Community meeting since the ACTRIS IMP Kick-Off meeting in Cyprus in March 2020 and reunited approximately 150 persons attending on site in addition to a similar number of remote participants. While focusing heavily on the ACTRIS NF Labelling process, innovation and the impending establishment of ACTRIS ERIC, ACTRIS Week 2022 also provided a platform for the Second ACTRIS NF Scientific and Technical Forum and several workshops of various ACTRIS and ACTRIS-adjacent groups and communities.

2.2 Agenda

Time	Mon Oct 24	Tue Oct 25	Wed Oct 26	Thu Oct 27			Time
09:00-09:30		Introduction and Updates from the Head Office		CARS-ARES Workshop	CAIS-ECAC Workshop	CIS Workshop	09:00-09:30
09:30-10:00		Updates from the Data Centre	NF Technical and Scientific Forum				09:30-10:00
10:00-10:30		Coffee break					10:00-10:30
10:30-11:00		Building the ACTRIS National Facility Strategy	Coffee break				10:30-11:00
11:00-11:30			NF Technical and Scientific Forum			CiGAS Workshop	11:00-11:30
11:30-12:00							11:30-12:00
12:00-12:30			Lunch				12:00-12:30
12.30-13:00	Lunch	Lunch					12.30-13:00
13:00-13:30							13:00-13:30
13.30-14:00	Interim RI Commitee Meeting	NF Labelling Process and Next Steps			ASCC Workshop		13.30-14:00
14:00-14.30		The ACTRIS Atmospheric Chamber Community - updates and outlook	NF Technical and Scientific Forum				14:00-14.30
14.30-15:00		Coffee break					14.30-15:00
15:00-15:30	Coffee break	Perspectives on ACTRIS by SIAB Experts	Coffee break				15:00-15:30
15.30-16:00	Interim RI Commitee Meeting		NF Technical and Scientific Forum				15.30-16:00
16:00-16:30		Innovation and Private Sector Liaison in ACTRIS					16:00-16:30
16:30-17:00							16:30-17:00
17:00-17:30				Bruncvik	Libuse	Premysl	17:00-17:30
17:30-18:00				* - lunch and coffee breaks on Thursday take place at the normal times			17:30-18:00

CONFERENCE DINNER 19:00
Restaurant Deminka
Škrétova 1, 120 00, Prague 2

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Chris	Walden	STFC	United Kingdom
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2.4 Action Items

Introduction and Updates from the Head Office
09:00-09:30 CEST.

Presentation given by ACTRIS Interim Leader Eija Juurola and ACTRIS Scientific Chair Paolo Laj.

Updates from the Data Centre
09:30-10:30 CEST.

Presentation given by ACTRIS DC Leader Cathrine Lund Myhre and her team.

Action points:

- Discussion of data metrics between RIs is needed. There is a call regarding data metrics to be considered (deadline next year).
- Discussion at TC level on instrument PIDs, including how to treat instruments that go through a major upgrade (new PID).
- Discussion on how to treat the changes in the instrument information (e.g., changes in NF PI information or in other information that may need the approval at the TC level).

Discussion:

- Metrics of data download and use that other RIs are using are not the same as ours. A question of whether there is a place in ENVRI FAIR to discuss the metrics. Relevant call is now open, DL next year.
- Footprints as NC files should be available.
- In many vases there is a fixed correspondence between the vocabulary term and the unit.
- Regarding instrument database, some of the information comes from the labelling process interface, but it is important to decide how to change the information provided over time. This has been discussed but not formalized yet. The idea is to have a database incl. the PI information etc. that can change over time, and to create an automatic system.
- There can be NF PI change but then there can be changes that need to be approved by the TC. There could be a workflow system where the NF requests a change, and the TC approves it.
- When possible, we can link our PIDs to any other database, e.g. WMO Wigos id.
- There will be PIDs for in-house developed instruments. Link from the landing page to be made available.
- A special discussion within each TC is needed about an instrument going through a major upgrade and its effect on the PID. New PID for an instrument can be created (with major upgrades an

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instrument could be considered as a new instrument), in this case there can be a reference to the PID of the old instrument.
- PID landing page should not change (the top of it at least. The bottom could change or there can be different versions of the page).

Building the ACTRIS National Facility Strategy
11:00-12:30 CEST.

Presentation given by Niku Kivekäs with statements from four ACTRIS countries (Czech Republic - Milan Váňa, France - Stéphane Sauvage, Greece - Nikolaos Mihalopoulos, Portugal - Daniele Bortoli).

Action points:
- Update the NF strategy document based on the discussion of the meeting (see the main points of the discussions below).
- Topics to be discussed in more detail in the future:
  - pricing of our services to users outside of ACTRIS NFs,
  - ACTRIS label at instrument level and related pricing – we could perform a survey for countries on the existing extra instrumentation (additional request for ACTRIS),
  - multiple instruments within an NF,
  - the sites existing very close to each other (considered as separate NFs, main site/subsites of one NF or something else?).

Discussion:
- ACTRIS observational platforms (continuously monitoring sites) can provide access. The facilities shall not stop their continuous monitoring for providing access. The users shall bring their own instruments to the site to perform measurements.
- A feasibility check will be performed for an NF to ensure the NF has enough capacity to provide access.
- There is an ATMO-ACCESS meeting in December intended for National Facility PIs where the remote access organized at stations and simulation chambers shall be discussed. Everyone is encouraged to attend. Important discussions for the development of access provision in ACTRIS.
- Health impact topic is important, and we should think what kind of setup is needed in the future to reach the goals regarding this.
- Important discussion topics for our strategy include
  - ACTRIS on a European vs. global level, its role and the engagement of other countries and facilities in other countries. It should be noted that we already have global coverage.
  - Looking ahead into far future, e.g. 30 years ahead.
- We need to make a distinction: global vs. Polar region. Europe has a responsibility to perform monitoring in the Polar regions (the European sectors of the Polar region).

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- Global level: ECAC has not been successful in doing QA for global sites. Sister TCs are needed to perform the QA for the sites outside of Europe (in case there are many). It is a big effort to increase capacity.
- The connection to sites outside of EU is important for us.
- AERONET: it is important to continue to calibrate instruments on a global level. Regarding RPFs – we need to be very careful in discussing about fees due to long history of providing cost-free calibration of instruments to users.
- Duplicate instruments for one NF is an issue in terms of TC capacity. We should also consider co-location between ACTRIS components
- Discussion about data fulfilling ACTRIS requirements but not being from officially labelled ACTRIS NFs. It is important to make a distinction between ACTRIS NFs and sites that are not ACTRIS NFs.
- It is important that we do not disrupt existing networks. If we have previously provided no cost services to users, perhaps we should maintain this, but we need to monitor the activities (via SAMU) of what are TCs doing outside of supporting NFs. Pricing is needed and the pricing can be waived in some cases if this is according to our strategy.
- A discussion about the overlap of cloud in situ and aerosol in situ instrumentation.
    - INPs would be measured at aerosol in situ sites even though the site would not be a complete cloud in situ site.
    - INP instruments, serviced through CIS, need an ACTRIS label. If site having the instrument is not an ACTRIS NF (for cloud in situ component), the instrument should have the label even though the NF does not fulfil the full requirements of cloud in situ NF.
- Financial aspects are also to be considered if a country decides to have one instrument but not complete component measurements (how this affects the membership fees).
- Note that NF label is component-specific.
- If an instrument is ACTRIS-compliant, we can service it and take the data. QA for these instruments outside of labelled NF components should be paid somehow.
- Survey of the extra instrumentation. Countries need to provide information with these additional requests, and it should be a country-level decision, not only on the RPO level.

NF Labelling Process and Next Steps
13:30-14:00 CEST.

Presentation given by Niku Kivekäs.

- Specific question to the aerosol remote sensing representatives of Warsaw, Barcelona and Cyprus NFs: would you be interested in the pilot labelling as more aerosol remote sensing facilities are needed?
    - Barcelona representative: Spanish ministry has signed the ERIC doc, and therefore available for the pilot.
    - Barcelona in situ: the process is awaiting from the signature from the ministry.

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  - Cyprus is willing to join the process.
  - Granada is another station that could be a possible candidate for the pilot.
- It is not necessary to have all components ready. Labelling shall not be delayed in order to be fully ready with all components.
- The country pays the membership fee, based on the labelling. It is important to decide whether the country should take care of the quality of the instrument for all its stations.

The ACTRIS Atmospheric Chamber Community – Updates and Outlook
14:00-14:30 CEST.

Presentation given by Astrid Kiendler-Scharr.

- Categorization of chambers in subgroups is possible (e.g. fixed vs mobile chambers). This can be used to understand the impact of the services offered by the ASC.
- We are aware of chambers in non-EU countries, but there is no strong coordination with other chamber networks. A number of countries is interested in ASC (e.g. from Beijing and South Korea), particularly in the cloud simulation chambers. There is an emerging interest from outside the EU.
- Chambers are mainly considering lower tropospheric condition due to practical reasons.
- There is a possibility to provide remote access to chambers but no overall activity to review such a component. Remote access can be provided, but not through the Data Centre. One way is to run locally an external request for an experiment. Another option is that a group sends an instrument for additional measurements in the chamber (request for testing). Clear rules should be made available to clarify this.

Perspectives on ACTRIS by SIAB Experts
15:00-16:00 CEST.

Presentations given by Vincent-Henri Peuch, Leonard Barrie and Valérie Thouret.

- Vincent-Henri Peuch provided an update on CAMS and reminded about the activities connecting ACTRIS & CAMS.
  - CAMS is now at its 7th phase, and big changes are coming up.
  - Observations of emissions will be the real focus.
  - Collaboration with EU members states to support the countries to test/use CAMS data
  - 23 million of people in EU get access/information via CAMS data (TV, etc).
  - The global system assimilates satellite observations due to data coverage as in situ isn't enough. Differences in quality of the product are a possibility. The limiting factor is the data coverage rather that the capacity.
- Leonard Barrie places ACTRIS in an historical/global RI context as a role model for technology and transfer of knowledge.

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  - It is important for ACTRIS not to think of research and operations as separate things. ACTRIS should keep a strong connection between research developments and operational services. For example: weather forecast groups are very close to research performing operations.
- Valerie Thouret presents IAGOS and synergies with ACTRIS (& ICOS ERIC) and reports on new developments of IAGOS instrumentation.
  - It is important for ACTRIS to keep producing high-quality long-term data characterizing the state of the atmosphere as they are essential to other application for air quality, climate studies and health.

Innovation and Private Sector Liaison in ACTRIS
16:00-17:00 CEST.

Presentation given by Carmela Cornacchia and the Innovation team.

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