

ACROSS - Atmospheric Chemistry of the Suburban Forest

Project and Data website: <https://www.across.aeris-data.fr>

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Project abstract:

ACROSS (Atmospheric ChemistRy Of the Suburban foreSt) is an integrative, innovative, multi-scale project within the “Make Our Planet Great Again” (MOPGA) initiative designed to advance understanding of the fate of the photochemical processing of urban and biogenic air mass mixtures in the Paris region. An ACROSS hypothesis is that the anthropogenic-biogenic air mass mixing leads to changes in the production of oxygenated volatile organic compounds (VOCs) whose properties alter their importance in incorporation into secondary organic aerosols (SOA) and their roles in production of ozone and other relevant secondary species. A likely important factor is NO_x transport to suburban biogenic environments and the resulting modification of key chemical processes.

A key highlight of ACROSS is an intensive, multi-platform measurement campaign that will take place in the summer of 2022. The campaign includes a 40-meter tower and ground-based measurements in the Rambouillet suburban forest to the southwest of Paris, airborne regional observations across Paris and suburban forested areas, and several other multi-instrumented ground sites located in the urban, rural, and semi-rural Paris region. The data collected from this campaign will provide a unique snapshot of the properties and mixing of urban and biogenic air masses around one of the most populated and polluted European megacities. This new knowledge will contribute to the advancing of our understanding at the process level and lead to the ability to represent such complex systems in numerical models, ultimately resulting in improved capability to predict the impacts on air quality, regional climate, and global climate change.

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ACROSS - Atmospheric Chemistry of the Suburban Forest

1. Philosophy of Communication

1a. Overall Concepts

The management of a complex project requires thoughtful planning of many factors, including various aspects of communication of information. This is important to address the needs of project management, teams of participants, stakeholders, and the public, that range from casual interest in the project to the access of critical information for deployment of assets. The goals of an effective communications plan include providing interesting and important information about the project, enabling pathways for information that are easily employed, and staging information at locations that can easily be accessed by parties who need it.

The elements of the communications for a scientific project such as ACROSS include (a) purposes (why), (b) types (what), (c) channels (how), (d) sources (from whom), and (e) destinations (to whom). Each of these elements is described in the following section with discussions of the roles of each in developing a detailed an effective communications plan.

1b. Communication Components

Purposes. Communications are initiated to with purposes to inform teams, individuals, the public, and stakeholders of the progress of the project, to provide information to groups for decision-making, and to advertise the project. These purposes affect the mechanisms and speed with which the information is transmitted.

Types. Communications make use of many kinds of media. These are utilized according to the purposes and targets of the information. These include transfer of text, photos, videos, verbal messages, of which each can be in physical or digital formats.

Channels. The communications channels make use of various types of formats and software to facilitate information exchange. These channels include traditional face-to-face and virtual meetings physically posted notices, and electronic means including email, websites, social media platforms like Facebook, YouTube, Twitter and Instagram, virtual meeting software such as Zoom or Webex, and messaging methods such as Slack, Facebook Messenger, Google Chat, and SMS.

Sources. ACROSS team members and entities desiring to share information or seeking answers to questions with other parts of ACROSS.

Destinations. Communications can be sent to ACROSS leaders, to members of the scientific and technical team, to communication offices of participating institutions, and to the scientific and public media. Each of these destinations could employ different types of media and communications channels.

The ACROSS project organization for the purposes of describing communications core to the project and with partners and collaborators is described below. Within this document, note that the ACROSS-related entities are divided into central (core) and collaborative (partner) components. In this context, central refers to: measurement teams deployed at the two primary ground sites (Rambouillet Tower and University of Paris, PRG), measurement teams staging instruments on the ATR-42 aircraft

platform, technical support teams, modelling teams, and related laboratory studies. Collaborative refers to partners making measurements at SIRTA and ICARE, measurements under the umbrella of the H2C and sTREEt campaigns in Paris, observations made by the Airparif and Lig'Air air quality networks, institutions represented by measurement and modelling teams, and the scientific and public media.

2. Communications Pathways Within-the Core Project

2a. ACROSS Core Project Organization

To describe communication needs within the central parts of ACROSS requires definition of the relationships between these components. The organization of ACROSS is presented schematically in Figure 1 divided into activities at the various measurement sites (Rambouillet and PRG) and platforms (ATR-42 based in Pontoise). In parallel are modelling/forecasting, technical and laboratory activities necessary for the successful implementation of ACROSS. The central scope of ACROSS is represented by the large blue circle, while each of the ACROSS components (represented by pie-shaped areas) consists of several individual teams (green filled circles) and a management group (small red filled circles) that makes decisions and disseminates information for that part of the project. These management groups likely include members from other ACROSS components and partners to aid in spreading information and to make use of the available expertise. An overall ACROSS management group (large red circle) provides guidance for the entire project and makes decisions concerning it. The make-up of the management groups is described in the [ACROSS Decision-Making Plan](#). Each ACROSS site/platform/activity has a leader who is the point-of-contact (POC) for that element of ACROSS (small black circle) (Table 1).

The communications for ACROSS involve transfer of information within and between the various teams, groups, and components, as well as sharing information about the project for the scientific community and the public. At one extreme, some communications involve only two individual teams (e.g. a team deploying an instrument on the ATR-42 that needs to share information about the measurement with SAFIRE technical personnel), while other communications are of interest to the entire project (e.g. the decision to deploy the aircraft in the near future with details of times and locations of the deployment). There are also important ACROSS partners (see section 3), for example SIRTA where critical ACROSS measurements are staged, and the other 2022 measurement campaigns, sTREEt and H2C, with which regular exchange of information is needed. These entities (and others) have their own management and internal communication structures that can be employed.

2b. ACROSS Core Communication Connections

Within each ACROSS component, there is regular information that needs to be transmitted between the POC and the individual teams within that component. For the measurement sites, such information could include schedules for upcoming deliveries, notification of infrastructure issues such as power or internet failures, plans for taking instruments off-line outside of the normal calibration and maintenance periods, and requests for assistance. Items such as these as well as general interest information (e.g. community meals, hikes, or other activities) can benefit from types of communications that will be received by the recipients promptly and that can easily be responded to. Information is also transmitted between ACROSS components (e.g., notification of overflights of the ATR-42 at Rambouillet). These communication needs within ACROSS are proposed to be addressed primarily by the following channels: (1) email using aliases (lists), (2) messaging platform with

capability for production of channels for various teams, and (3) websites for dissemination of less time-sensitive information.

The most common types of communications between the observational teams and the modelling teams during the campaign involves transmittal of forecast information for use in ATR-42 deployment decisions and other measurement activities. In addition, modelling teams may be interested when specific field data and quicklooks have been uploaded. It is vital for observation teams to be able to contact technical teams to get help with instrument, internet or site infrastructure issues. Plans include regular reports (described in more detail later) about the overall status of the project to all core participants and partners. These include flight reports and daily reports of each ground site briefly summarizing the status of platforms and instruments, and of recent interesting findings.

The communication pathway organization between the core ACROSS components is presented as a matrix in Table 2. The diagonal, light-yellow intersections represent communications between different POCs, teams or management groups as well as communications within teams or groups. Many communications are initiated and disseminated by the component or team POCs. Intersections between core components for which communications pathways are needed and planned are indicated by “X”. Secondary communication pathways (e.g., from a member of one component to all the members of the same or another component, rather than through the POC) are indicated by “(X)”. These pathways are expected to be less common than communications made through the component POC. Communications from teams in this table refer to information representing the entire team or a subset. Note that each team has a POC that can provide a pathway that is perhaps more efficient. By using aliases and message channels for each identified recipient (team, group, or individual), it is easy for participants to target communications to the destinations most appropriate.

This approach implies the development of several email aliases and messaging software channels. The information for their creation will be gathered by an online form (Appendix 1) which requests components and teams to provide information on POC, team activities, email addresses, and desired names of aliases and messaging channels. It also expected that communications make use of the hierarchy of the organization presented in Figure 1. While there are definite needs for individual team members in one component to contact persons in other components, it is recommended that the individual work through the organization from their team POC, to the POC or their component, to the POC of the other component, and then into the structure of that component as recommended by the POC. This ensures that POCs are aware of the communications and needs of their component and the available expertise and equipment available throughout ACROSS.

3. Communication Pathways to Project Partners

3a. Relationships Between ACROSS and Partners

There are several entities within the Ile-de-France and nearby regions that are considered important partners for ACROSS. Their roles as partners are in addition to their direct ACROSS participation and funding received. These include SIRTa (Site Instrumental de Recherche par Télédétection Atmosphérique in Palaiseau) and ICARE (Institut de Combustion, Aérothermique, Réactivité et Environnement in Orléans) where measurements of atmospheric composition will be conducted that will directly contribute to ACROSS goals. Measurements at these locations will when combined with other ACROSS measurements will provide information on the evolution of atmospheric components as air masses move downwind from the emission regions producing secondary substances such as ozone, oxygenated VOCs, and SOA. These sites have long records of atmospheric

measurements that will allow observations from the 2022 campaign to be placed in the context of other years.

There will be two other measurement campaigns in Paris in the summer of 2022 as part of multi-year projects to better understand urban conditions, including air quality. Many of these measurements provide an opportunity to constrain the composition of urban air to complement ACROSS measurements at PRG and observations from air quality networks. The sTREEt (Impact of sTress on uRban trEEs and on city air quality, PI Juliette Leymarie) project is designed to improve understanding of the impacts of urban vegetation on air quality, particularly the impact biogenic VOC emissions and the changes in these emissions due to urban environmental factors. The H2C (Heat and Health in Cities, PI Aude Lemonsu) project focuses on the improving understanding of the thermal effects of cities on heat comfort, local meteorology, and air quality. The measurement component includes several aerosol properties. H2C also includes partners common with ACROSS including Airparif, CNRM, and IPSL.

There are two air quality networks within the north-central France region of relevance to ACROSS. Airparif is the atmospheric observation network in the Ile-de-France that comprises 55 stations located within the Paris urban and peri-urban regions, at roadside locations, and in nearby rural locations. The Lig'Air network covers the Centre-Val-de-Loire region with the stations in Chartres and Orleans of particular interest for ACROSS.

The measurement and modelling teams of ACROSS represent a variety of universities and research institutions. Without completely describing the relationships between these institutions, note that the organizations involved have direct connections with the ACROSS project, its partners, and the participants (Table 3). Many of these organizations have communications offices to which general interest ACROSS-related information can be directed.

3b. Communication Connections

The primary communications between ACROSS and external entities will consist of general information that the wider scientific community and the public will find interesting. It is expected that regular press releases will take place between ACROSS and the entities in Figure 2. These communications will seek to inform the recipients that ACROSS exists, that there are currently atmospheric measurements taking place, and that there have been recent interesting findings from the preliminary analysis of the measurements. There will also be attempts to tie together the ACROSS observations with those at other sites in a qualitative way to validate interesting atmospheric phenomena.

If the situation allows, there will be media days planned for each of the ACROSS sites (Pontoise, PRG, and Rambouillet) so that journalists can interview the scientists and have their questions answered about the approach and goals of ACROSS. These could be on the same day, but likely staggering them would be best from a logistical and management perspective.

We will develop email aliases (lists) consisting of (1) interested communications representatives (Table 3) and (2) media personnel to make dissemination of ACROSS press releases easy and regular (Table 4). We also plan to make it easy to exchange information between ACROSS and the other 2022 atmospheric measurement projects, either through aliases and messaging channels or through points of contact of the relevant projects. The types of number of email aliases and messaging channels are listed in Table 5.

The characteristics of the email lists and message channels include the following for ease of use and security of the email addresses of the list members:

- (1) Three types of lists will be developed (8 types are available, if needed):
 - a. Confidential (no subscription / unsubscription: only list owner can add & remove members; list visible to members only; only members can send messages) for management teams and perhaps individual observation or modelling teams
 - b. Private Working Group (only subscribers can post, private-not public archives, controlled subscription) for most ACROSS lists
 - c. Hotline (everyone can post, private archives, controlled subscription) for a few lists that interested parties can see ACROSS news and respond; not to be used for sensitive or private information
- (2) List names and recipient categories will be posted on a password protected web location.
- (3) ACROSS members can request list creation

The mobile telephone numbers of POCs and other project leaders will be available so that information can be transmitted rapidly should the need arise (e.g. due to emergency because of an accident or injury). While telephone communications can be a rapid way to share information, it is recommended that other methods of communication be considered first.

4. Restrictions in the Use of Email Lists

4a. Access to Email Lists

While email lists and messaging channels are useful means of exchanging information, there will be limitations on who can use the lists and recommendations for their use to minimize the possibility of receiving unwanted messages.

These email lists are only to be used by members of the ACROSS team and partners. The list names are not to be distributed except by official means and are not to be shared with anyone. Please keep the names of the lists in a safe place that cannot be found by persons not eligible to use them.

4b. Proper Use of ACROSS Email Lists

These email lists are only to be used for ACROSS-related sharing of information. They are primarily for scientific and business use, with some small amount of use to announce personal activities while in the field. For extended personal exchanges, please make direct communications using email addresses rather than the ACROSS email lists.

When using the email lists, please place the list name in the BCC (blind carbon copy) category, so that the list name cannot be seen by recipients of the message. Even though all recipients should be aware of the email list name, this provides one more level of security in the use of these lists.

4c. Consequences of Improper Email List Use

If it is found that these lists are used improperly (e.g., improper purpose, shared with outside persons, used to deliver messages not about ACROSS), the person responsible will receive a warning for the first violation. The second infraction will result in removal from the list. If necessary, the list name may be changed to minimize further misuse.

If an external person (not part of the ACROSS team or partners) is found to be using an ACROSS email list, actions will be taken to attempt to disable their use of the list. The list name may also be changed, if necessary.

5. Planned Communications

While communication within the ACROSS team is encouraged to share items of scientific and logistical interest, there are a few planned events for which regular dissemination of information can be expected, as summarized here, and presented in Table xx.

ATR-42 Flight Reports. For each flight of the ATR-42, a scientific flight report (usually by the ATR-42 ACROSS POC) will be generated that will be directly available to measurement teams on board the aircraft and to SAFIRE. The complete report or a shorted summary will be sent to the entire ACROSS team. Among other items, the flight report will include (1) the flight pattern planned and any deviations from the plan, (2) interesting observations made during the flight (from in-flight real-time observations and quicklooks), (3) expected contribution to ACROSS goals, (4) aircraft and instrument readiness for next flight, (5) tentative plan for next flight, (6) photographs of views or instrument displays. As appropriate, reports to the ACROSS team can also include the ATR-42 schedule for the next few days including planned maintenance and down days, and the weather forecast as it relates to the aircraft deployment.

Rambouillet Operations Reports. On a regular basis, ranging between daily and twice weekly, a scientific report (usually by the Rambouillet ACROSS POC) will be generated. It will be made directly available to the measurement teams at Rambouillet. The complete report or a shortened version will be sent to the entire ACROSS team. The report will include items since the last report, such as (1) atmospheric situation (wind directions, major pollutant levels), (2) interesting observations, (3) instrument readiness, (4) any planned team meetings, (5) needs at the site, (6) planned activities (e.g. media days, visits by noteworthy officials), (7) operational issues (internet, electricity), (8) photographs of the site and activities there.

PRG Operations Reports. In a manner similar to those for the Rambouillet site, regular reports of the status of the measurements at PRG will be written, and it will be shared in full or in shortened form with the entire ACROSS team. See the Rambouillet site report section for suggestions of items to include in the report.

Weather Forecast Reports. Every day, there will be assessments of future weather, importantly related to the ATR-42 deployment, but also to keep the ground sites aware of any potentially hazardous conditions for teams working at these sites. The forecasts will be made for the current time plus 12, 24, 48, and 72 hours. Of relevance for the aircraft is the afternoon (noon to 20h) wind direction and speed, as well as information about precipitation and cloudiness. This information will factor into decisions of whether, where and when to deploy the aircraft. A daily report of these forecasts will be written by the leader of the forecast team (or someone else appointed), and this complete report or a shortened version will be shared with the entire ACROSS team.

Regular Site Team Meetings. It is expected that there will be regular meetings of the ACROSS teams at each site to share scientific, logistical, and technical information with each other. Generally, the POC at each site will chair the meeting, but this is not a requirement. Other team members can lead these meetings. The interval of the meetings is not precisely defined, but the recommended frequency is presented in Table 6 that can be adjusted as needed. For each meeting, a written summary will be

produced by the chair or someone assigned by them. These meeting reports can be combined with operations reports as described earlier.

Figures.

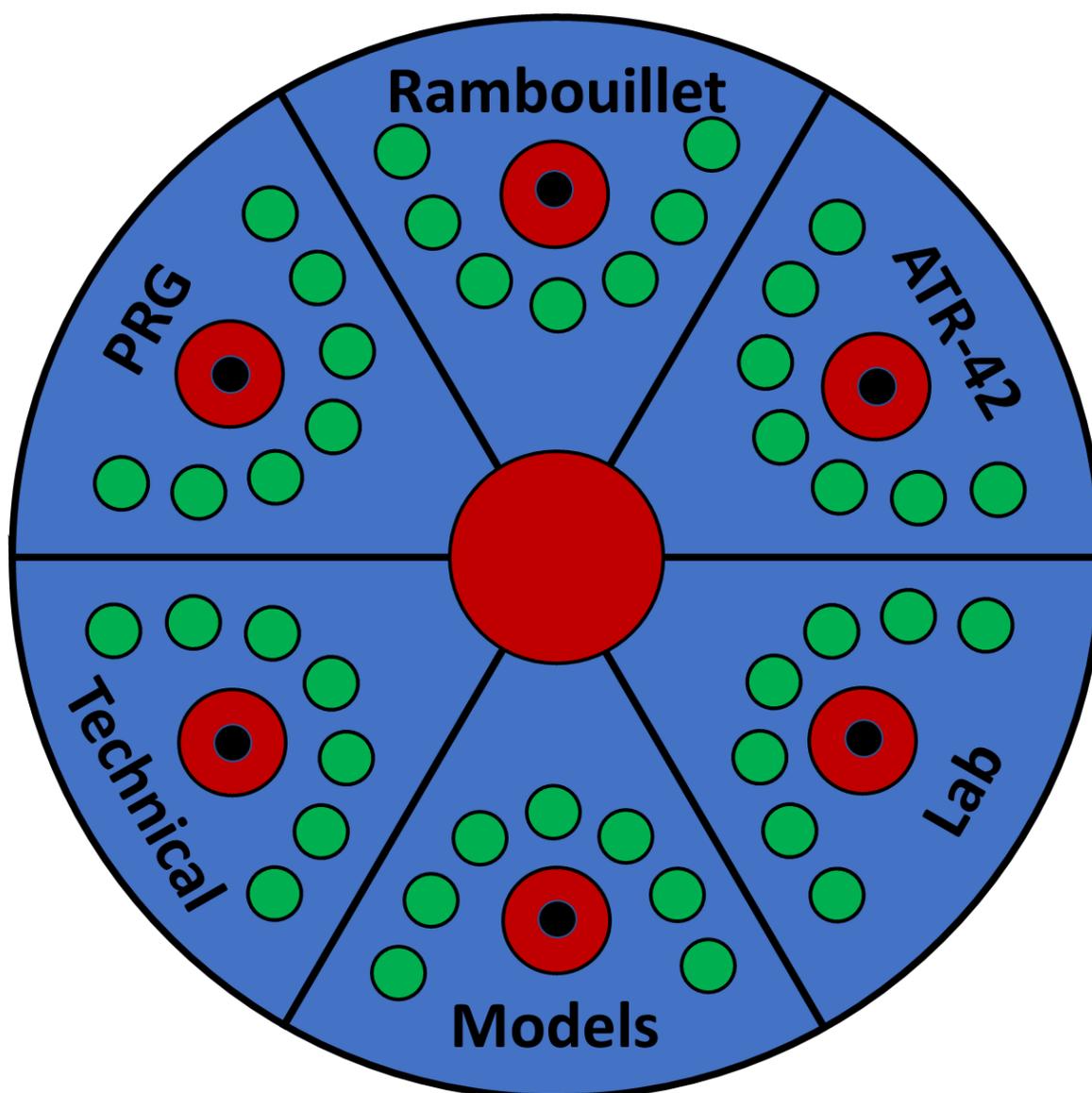


Figure 1. Relationships between the various core components of ACROSS: measurement locations and platforms, modelling and technical teams, and related laboratory investigations. The large filled red circle represents the overall ACROSS management team (AC-Mng), while the smaller filled red circles represent the site, platform or activity-specific advisory/management groups (C-Mng). The point of contact (C-POC) for each component is represented by the filled black circle. The filled green circles represent the various measurement (C-team), modelling (Mdlng-C), technical (Tchncl-C), or laboratory (Lab-C) teams. Each of these teams has a POC (not shown).

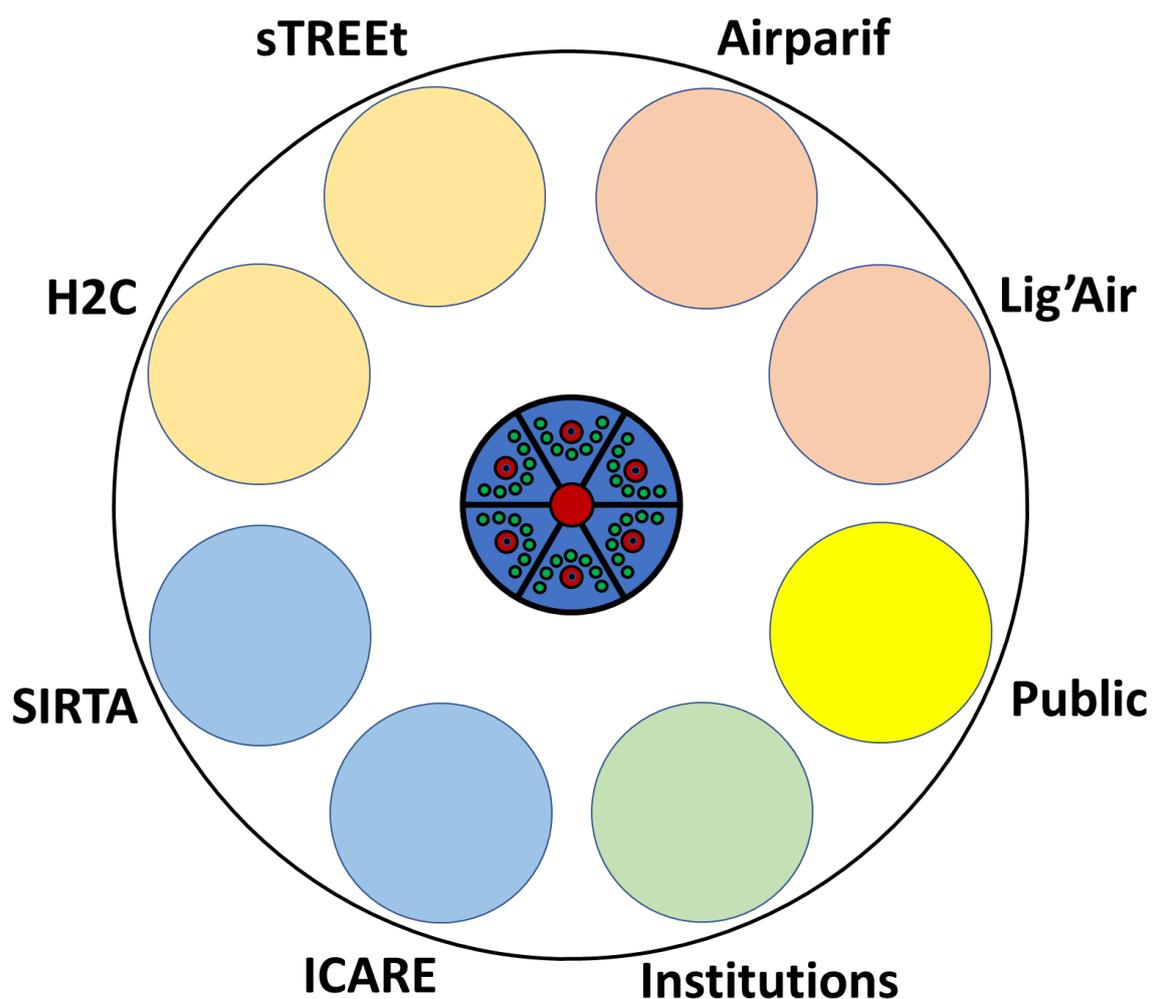


Figure 2. Relationships between core ACROSS components (represented by filled blue circle, as in Figure 1) and various external entities. The primary communication channel between ACROSS and these entities is via the ACROSS component POCs and the POCs of these entities (see text).

Tables

Table 1. Points of contact for the core components and partners of ACROSS.

Component/Entity	Name/email address
ACROSS Project	Christopher Cantrell & Vincent Michoud
Rambouillet	Vincent Michoud (vincent.michoud@lisa.ipsl.fr)
ATR-42 (Pontoise)	Christopher Cantrell (christopher.cantrell@lisa.ipsl.fr)
PRG	Aline Gratien (aline.gratien@lisa.ipsl.fr)
Modelling/Forecasting	Matthias Beekmann? (matthias.beekmann@lisa.ipsl.fr)
Technical	Cecile Gaimoz?
Lab	Mathieu Cazaunau?
SIRTA (https://sirta.ipsl.fr/)	Martial Haeffelin
ICARE (https://icare.cnrs.fr)	Wahid Mellouki
H2C	Aude Lemonsu
sTREET	Juliette Leymarie
Airparif	
Lig'Air	

Table 2. Core communications matrix for ACROSS, showing possible communication pairings conceivably needed during ACROSS. Not all pairings will be needed for all components. Note that each category of initiator or recipient of information in this table often refers to multiple entities. For example, the group C-POC corresponds to all the POCs for the sites, platforms, and partners. This is not meant to imply that all communications initiated or received are sent from or to all members of that category. It depends on the type of information and the needs. See text for additional information.

Initiator	Recipient						
	C-POC	C-team	C-Mng	Mdlng-C	Techn-C	Lab-C	AC-Mng
C-POC	X	X	X	X	X	X	X
C-team	X	(X)	(X)		X		X
C-Mng	X	(X)	X		X		X
Mdlng-C	X	(X)	(X)	X			X
Tchncl-C	X	(X)			X		X
Lab-C	X					X	X
AC-Mng	X	(X)	X	X	X	X	X

C-POC: Component point-of-contact; C-team: Component team; C-Mng: Component management; Mdlng-C: Modelling component; Tchncl-C: Technical component; Lab-C: Laboratory component; AC-Mng: ACROSS management; X: primary communication pathway; (X): secondary communication pathway.

Table 3. Organizations that are represented by participants in ACROSS or that provided support for the project that can assist with and benefit from exchange of information about ACROSS.

Organization	Communication Contact	Website
LISA	Pole Informatique, com@lisa.ipsl.fr	www.lisa.u-pec.fr/fr
UPEC	Benedicte Ray, communication@u-pec.fr	www.u-pec.fr/
UPC	Virginie His, virginie.his@univ-paris-diderot.fr Laetitia LOUVET, communication.sciences@u-paris.fr	https://u-paris.fr/

CNRS-INSU	Anne Brès, insu.communication@cnrs.fr	www.insu.cnrs.fr
CNRS	Brigitte Perucca, brigitte.perucca@cnrs-dir.fr Sophie Chevallon, secr-dircom@cnrs-dir.fr	www.cnrs.fr
IPSL	Marie Pinhas-Diena, marie.pinhas@ipsl.fr	www.ipsl.fr
AERIS	Marina Ripon, marina.ripon@ipsl.fr	www.aeris-data.fr/
QUALAIR	--	http://qualair.aero.jussieu.fr/
CNRM	Pauline Morin ?,	www.umr-cnrm.fr/?lang=fr
IMT-LD	Cecile Jacquet, cja@enderby.fr	https://imt-nord-europe.fr/
UNICH	Public Relations Office, urp@unich.it	www.unich.it/
JHU	General Media Inquiries, jhunews@jhu.edu	www.jhu.edu/
LSCE		www.lsce.ipsl.fr/
EPOC		www.epoc.u-bordeaux.fr/
IRCELYON	Marlene Fabre, marlene.fabre@ircelyon.univ-lyon1.fr	www.ircelyon.univ-lyon1.fr/
ICARE	contact.icare@cnrs-orleans.fr	https://icare.cnrs.fr/
SIRTA		https://sirta.ipsl.fr/
PC2A		https://pc2a.univ-lille.fr/
LCE		https://lce.univ-amu.fr/
LATMOS		https://www3.latmos.ipsl.fr/index.php/fr/accueil-latmos
LaMP		https://lamp.uca.fr/#/admin
LPC2E		www.lpc2e.cnrs.fr/
INRAE	Sandrine Vinzant, presse@inrae.fr	www.inrae.fr/
INERIS		www.ineris.fr/fr
SAFIRE	desk@safire.fr	www.safire.fr/fr/
ANR	Katel Le Floc'h, contactpresse@anr.fr	https://anr.fr/
LEFE-CHAT	insu.communication@cnrs.fr	https://programmes.insu.cnrs.fr/lefe/
DIM-Qi2		www.dim-qi2.fr/

Table 4. Possible Media communications organisations in France.

Entity	Type	Contact	website
Le Figaro	N		
Le Monde	N	courrier-des-lecteurs@lemonde.fr	
Le Parisien Les Echos	N	mboulat@lesechosleparisien.fr	
La Croix	N	Marine.Lamoureux@bayard-presse.com	
20 Minutes	N	paris@20minutes.fr	
L'Express	N		
TF1	TV		
BFMTV	TV		
France 24	TV	https://www.francemediasmonde.com/en/contact	
arte TV	TV	english@arte.tv	
RTL	TV		
FranceTV	TV		
France 2	TV		

Futura Sciences	W		https://www.futura-sciences.com/
CNRS	W		https://www.cnrs.fr/
Gentside decouverte	W		https://www.maxisciences.com/
ConsoGlobe	W		https://www.consoglobe.com/
Persee	W		https://www.persee.fr/
Inria	W		https://www.inria.fr/fr
Hypothèses	W		https://hyptheses.org/
Facebook	SM		
WhatsApp	SM		
Instagram	SM		
Snapchat	SM		
Twitter	SM		
LinkedIn	SM		
Pinterest	SM		
TikTok	SM		

Table 5. Candidate email lists and messaging channels for ACROSS communications.

Type	Estimated Number*	Description
ACROSS measurement team (all)	1	measurements at Rambouillet, PRG, SIRTA, and on ATR-42
ACROSS modelling team	1	forecasting and modelling for ACROSS
Institutions	1	Communications offices of institutions for ACROSS teams and related entities (Table 3)
ACROSS site-specific teams	3-4	based at specific measurement sites or platforms
ACROSS instrument specific teams	20-30	responsible for specific ACROSS measurements
ACROSS points of contact	4-6	points of contact (Figure 1, 2, Table 1) for ACROSS sites and activities
Media	1	media personnel wanting regular updates
Directors	1	leaders of home institutions of team members

* Estimated number of aliases or channels to be created

Table 6. Suggested frequency for ACROSS site team meetings.

Component	Frequency	Purposes
Rambouillet	2 per week	Scientific, logistical, technical sharing of information
PRG	2 per week	Scientific, logistical, technical sharing of information
ATR-42 (Pontoise)	Daily	Gathering of information to make flight deployment decisions; Scientific, logistical, technical sharing of info
Modeling/Forecasting	Daily	With ATR-42 meetings to present forecasts

	2 per week	Scientific, logistical, technical sharing of information
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Appendix 1.

Information Form for ACROSS Communications

To gather information for developing communications pathways for ACROSS

Draft saved

Team Name

Format: Institution_specie(s) measured and/or_platform and/or_activity_leader last name_site (Examples: LISA_VOC_Cantrell_Rambouillet, LISA_CHIMERE_Beekmann, LISA_VOC_ATR-42_Michoud

Your answer

Team Members

Give team member names and email addresses

Your answer

Team email group list name requested

Add existing alias (if it exists) or desired alias name. Leave blank to allow us to build it from Team Name

Your answer

Request to receive messages from group lists

- ACROSS (all activities)
- Rambouillet measurements
- PRG measurements
- ATR-42 measurements
- ACROSS modelling
- ACROSS technical
- ACROSS lab studies
- SIRTA measurements
- ICARE measurements
- Institution communications
- Media communications
- H2C campaign
- sTREEt campaign

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