

## Deliverable 11.2: Protocols for questionnaires in ACTRIS IMP

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Work package no	WP11
Deliverable no.	D11.2
Lead beneficiary	FMI
Deliverable type	<input checked="" type="checkbox"/> R (Document, report) <input type="checkbox"/> DEC (Websites, patent filings, videos, etc.) <input type="checkbox"/> OTHER: please specify .....
Dissemination level	<input checked="" type="checkbox"/> PU (public) <input type="checkbox"/> CO (confidential, only for members of the Consortium, incl. Commission)
Estimated delivery date	M4
Actual delivery date	30/04/2020
Version	Final
Reviewed by	Sanna Sorvari Sundet
Accepted by	Sanna Sorvari Sundet
Comments	

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## 1. Surveys in ACTRIS IMP

In ACTRIS IMP there are three tasks which involve surveys to be made.

- In the context of Task 3.3 two surveys will be undertaken aiming to provide quantitative evidence on specific socio-economic impacts of ACTRIS RI.
  - The 1<sup>st</sup> survey will be used to collect data at consortium level through a questionnaire, with a view to update the macroeconomic impact analysis of ACTRIS RI. The data that will be collected concern investment costs for the development of various components of ACTRIS RI, their operation and maintenance expenditures, the funds attracted from relative research projects as well as the number of jobs that have been directly generated for setting up and operating the infrastructure in question. These data will be utilized in the context of input – output analysis to estimate the impact on GVA, employment and public budgets attributed to the development and operation of ACTRIS RI. The questionnaire for this survey will be distributed and answered via e-mail.
  - The 2<sup>nd</sup> survey aims at valuing the integrated ACTRIS capacity to provide local, regional, national and international authorities and organizations information on atmospheric composition pertinent to air quality, emission management and risk assessment to increase public awareness and to design appropriate policies and measures to minimize the negative impacts of air pollution and climate change and to maximize social welfare. The survey will be performed in 2-3 ACTRIS countries, targeting the general public and trying to estimate the willingness to pay of individuals to retain/expand ACTRIS RI. The results of this analysis will be extrapolated to whole Europe through benefits transfer. The questionnaire for this survey will be distributed and answered via either personal interviews or internet.
- A survey will possibly be carried out also in the frame of WP6 activities to consent the updating of the user needs analysis (Task 6.1). This is a fundamental step in the definition of a proper user strategy that will ensure the development and provision of ACTRIS services in line with users' research interests, demands and needs. User needs will be collected through the group procedures and surveys. Giving the current restrictions on the organization of in-person meetings due to the coronavirus pandemic, it is very likely that surveys will mostly replace community meetings and focus groups at least in the initial phase of the project. Answers will be analysed, summarized and user needs inventoried with results shared with participants before wider diffusion within the ACTRIS community and to the public. When the access pilots planned in the project are realized in the frame of WP7 activities, questionnaires will also be administered to users to ascertain their level of satisfaction with the services accessed. That would consent to evaluate and plan for improving the service provision and access process.
- In the context of Task 9.1 a survey will be undertaken both to ascertain the efforts made by the ACTRIS community towards innovation and transfer of knowledge to the private sector – particularly the success stories of joint technological developments, continuous cooperation and exchange in hardware improvements and software updates – and to gather latest information on,

analyse and address the needs of the private sector (including its specific requirements and modalities). Afterwards the survey is evaluated and summarized in a Progress Report on the position of ACTRIS in the European Innovation Ecosystem (Deliverable D9.1). This document can serve as a basis to foster the collaboration with SMEs and industries, develop the necessary innovation policies, and drive the innovation and technology development actions at the Central and National Facilities.

## 2. Informed consent procedures in ACTRIS IMP

The participants of the first survey under Task 3.3 will sign and return an informed consent form describing the scope and method of the survey, and how the data will be used. This includes personal data (data identifiable to a person). By signing this form, the survey participant accepts the use of her/his answers as described in the form. No personal data will appear in the final questionnaire outcome reports, which are the deliverables produced by these tasks. The participants of the 2<sup>nd</sup> survey under Task 3.3 will not need to sign the informed consent form as the target of this survey is the general public and the questionnaires will be anonymous.

Collection of user needs and satisfaction via surveys in WP6 will be made upon reception of informed consent from users and people participating in user research. This involves informing all potential participants about the purpose of the information collection and the study, the procedures to be undergone, how the answers will be treated and what the results of the analysis will be used for. Specific information documents will be prepared to provide subjects with the information they need to make a decision to participate in the user research study. Users and other respondents will be asked to sign a written informed consent document or to provide the consent answering specific questions at the beginning or the end of the survey. Inventory, reports and analysis which the surveys were made for will only include data coming from users who provided informed consent.

Before joining the survey planned as part of Task 9.1, participants will be fully informed of its purposes, procedures, the expected outcomes, what is expected from respondents, how their answers and comments will be used to enhance understanding of the topic. Participants will then be asked to provide their informed consent with a separate, preliminary document devoted to collecting the consent or directly with a few simple consent questions in the opening or the end of the survey. The choice between these options will be based on what is deemed most convenient during the survey design and preparation phase, as well as on the type of respondent (member of the ACTRIS community – external, private user). Only data (observations, images, comments, documents) coming from respondents that provided the consent will be processed and used to produce the final report. A consent form will be used. A one step approach is planned, therefore the consent form has to be signed before the survey is completed.

In the questionnaires any data obtained without a corresponding informed consent form will be excluded from the analysis of the questionnaire results. The Survey Information and Informed Consent form for the questionnaire is included in this document as an attachment.

In all these questionnaires and surveys the partner responsible for the questionnaire will be responsible for storing the written answers and the signed informed consent forms over the duration of ACTRIS IMP. They will also be responsible for maintaining a list of the participants invited to the questionnaires and their contact information.

### 3. Identification and recruitment of participants

The first questionnaire of Task 3.3 should be completed by the national ACTRIS contact persons in each country participating in ACTRIS, as defined in on the ESFRI Roadmap 2016 (one questionnaire per participating country). The second survey of Task 3.3 is targeting the general public in 2-3 countries; it will be run by the corresponding partners under NOA coordination.

Surveys in WP6 will be administered to key user testimonials, ACTRIS facilities staff in charge of supporting users before, during and after access, users who accessed the facilities in the past and prospective new users.

The survey of Task 9.1 should be completed by members of the ACTRIS Central and National Facilities with relevant previous experience of technology transfer and innovation promotion, as well as private companies already involved in previous projects like ACTRIS PPP or ACTRIS-2. The list of representatives of the ACTRIS facilities includes at least one respondent per CF and one representative per NF type. The list of companies comprises more than 60 companies. However, before launching the survey national ACTRIS contact persons will be asked to update and complete the list.

In all surveys the participation is fully voluntary, and no reimbursement will be provided for the participants. A person participating in one part of the survey has no obligation to participate in later parts of the same survey. The invited participant may forward the task of answering to the questions to someone else in her/his organization or national ACTRIS community.