

Horizon 2020

Societal Challenge: Improving the air quality and reducing the carbon footprint of European cities



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Full project title:

Integrated Climate forcing and Air pollution Reduction in Urban Systems

D8.4 User training program

WP8 Dissemination, communication and involvement of stakeholders

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1 Introduction

Internal training helps to permeate skills in and knowledge of the ICARUS concept and tools and to harmonize techniques and methodologies.

The **external training** program, is aimed not only at capacity building of ICARUS young scientists, but also open to other end-users and other interested parties consists of annual workshops/courses on methodological advances and new findings organized by ICARUS participants each covering a specific area of expertise.

The training is aimed for stakeholders:

- To train stakeholders interested in implementing the methods and tools developed in the project
- To train professionals who will use the products and knowledge gained through the project activities

This document provides an overview of the training plan on the basis of the needs currently identified. The plan includes the main training events identified at this stage of the project. It will be continuously updated throughout the project on the basis of new information and needs which may be become available.

2 Training needs


Training needs were identified via direct exchange with all other WP leaders, and via an evaluation of progress reports, as almost all aspects of the project do require training.

Key areas, methods of training and time schedule are included and detailed in an internal training plan including:

- E-learning materials for presentation on internal website.
- Formal workshops for all partners or subgroups
- One-to-one training for experimental tasks (staff exchange)
- E-learning comprises materials such as
 - a glossary for a common understanding of the terminology used,
 - an advanced forum for discussions and content creation to facilitate the exchange of information and concepts as well as
 - a sophisticated search engine to easily retrieve the information searched
 - manuals and tutorials developed during the project

Training materials will be distributed in both draft and final form to selected users for testing and evaluation, and users will be encouraged to circulate them within their institution for amplification of the effect.

Learning material for universities will focus on undergraduate and postgraduate students and will be developed based on new knowledge and achievements of the ICARUS project. It will comprise fact packs, study guides and computer demonstration materials. Further synergetic effects with e.g. integration of training into a Marie Curie programme will be taken into consideration and

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implemented during project development. Summer schools will also take place targeting academic staff and students aiming at translating the scientific results of the project into usable knowledge.

A fundamental part of the external training activities will be performed online via the development of a Web-based training portal (e.g. Moodle) linked to the ICARUS web site.

Workshops are organised as one- to two-day meetings, including lectures, demonstrations and discussion groups, and followed by a planning meeting for WP leaders. The first workshop of the project focused on inter-disciplinary communication and on the promotion of participatory development of the project's methodological advances exploring and advancing community-based research and citizen science.

Moreover, depending on the project needs one-to-one training could be organized. These consist of short- to medium-term exchanges (up to 4 weeks) of staff between partner laboratories, visits to laboratories by partner PIs, and small-group visits to lead laboratories by research staff.

3 Training plan

In ICARUS training activities will be focused on internal (participating institutions) as well as external (researchers, students, city managers, citizens, industrial partners) parties.


For the internal parties, the annual training workshops will be organized by respective WP leaders in collaboration with the WP8 leader, typically back-to-back to the annual ICARUS project meeting. Students involved in the project can also participate in the ICARUS school, i.e. in the international summer schools organized on the annual bases in 2018-2020.

Training events for external partners will be organized at various stages of the project. Some of these events will be organized on the national level in all participating cities, some will be organized internationally, jointly for all project stakeholders. The aim of the training programme for the external users will be to present knowledge, methodologies, and tools generated by the project.

The international programme will include:

1. a workshop for stakeholders organized in Thessaloniki during the first 6 months of the project to enhance the interdisciplinary communication,
2. a workshop presenting the ICARUS concepts and methodologies to the city managers, SMEs but also students and academic staff organized in Brno back to back to the 1st ICARUS summer school in the end of the second year,
3. a workshop focused on ICARUS results in pilot applications in participating cities organized back to back to the 2nd summer school in Pavia in the end of the third year, and
4. a workshop organized in the end of the fourth year in Thessaloniki together with the 3rd ICARUS summer school will provide an opportunity of the final training on the use of the ICARUS paradigm and computational tools.

While the recruitment of the summer school participants will be focused on the university students and junior scientists from participating cities, the international workshops will be targeted at the city

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planners and managers, industrial partners or SMEs. The workshops organized on the national level will focus on a variety of stakeholders including cities, industrial enterprises, local services providers, NGOs, citizens but also university and high school students.

On the national level, there will be at least two training events in each case city:


1. a workshop presenting the ICARUS concepts, methodologies and pilot studies to the local stakeholders as well as general public. These workshops have to be organized during the second year of the project,
2. a workshop providing a platform to discuss the project results and outcomes and their potential application in development of the smart city strategies of the participating cities. These workshops should be organized in the final year of the project.

Both sets of workshops will be organized by the local partners in collaboration with the WP8 leaders and leaders of other relevant WPs.


The following training events will be arranged according to the needs either at Project or Work-Package level.

Table 1: Timeline of training events


Work Package	ICARUS training Event	Month	Purpose	Target group
WP8	Stakeholder Engagement Event, Thessaloniki, (Greece)	7	Building a base for interdisciplinary communication of the project team and the ICARUS stakeholders and promote the participatory development of the project's methodological advances focusing on community-based research.	Stakeholders and ICARUS partners
WP2	Workshop on the activity-emission factor database, Thessaloniki. (Greece)	13	Explanation of the top-down approach, data and their sources, achieved results, obstacles, problems with	ICARUS partners involved in WP2

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			missing data, existing and modelled emission data	
WP4	Workshop on multi-sensor data, agent-based modelling, socio-economic status and health effects, Thessaloniki, (Greece)	13	Discussion on the strategy towards the multi-sensor data for personal exposure monitoring, the use of ABM to derive exposure profiles and to capture socio economic dynamics, the influence of socio economic status; the estimation of the health effects at the individual and community level	ICARUS partners involved in WP4
WP7	Workshop on the ICARUS DSS, Thessaloniki, (Greece)	13	User requirements and functional specifications, models integration, technical framework and system architecture of the ICARUS DSS	ICARUS partners involved in WP7
WP7	Workshop on ICARUS-DSS, Stuttgart, Germany	25	Training on ICARUS DSS tool back-to-back to the ICARUS annual meeting	ICARUS partners involved in WP7, stakeholders and potential users of the DSS tool
WP8	1 st ICARUS summer school, Brno, (Czech Republic)	26	Students exchange programme supporting	University students and junior scientists from ICARUS

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			dissemination of the project results	participating cities
WP8	Workshop on the ICARUS concepts and methodologies, Brno, (Czech Republic)	26	Presentation of the ICARUS concepts and methodologies to the stakeholders	City managers, SMEs, NGOs but also students and academic staff
WP8	Workshops on the ICARUS concepts organized in participating cities (various cities)	26-36	Presentation of the ICARUS concepts, methodologies and pilot results in participating cities	City managers, industrial partners, services providers, SMEs, NGOs, students and general public
WP4	Workshop on agent-based modelling, Ljubljana, Slovenia	37	Training on ABM modelling back-to-back to the ICARUS annual meeting	ICARUS partners involved in WP4 and interested stakeholders
WP8	2 nd ICARUS summer school, Pavia, (Italy)	38	Students exchange programme supporting dissemination of the project results	University students and junior scientists from ICARUS participating cities
WP8	Workshop on ICARUS results in pilot applications, Pavia, (Italy)	38	Presentation of the ICARUS results in pilot applications in participating cities	City managers, SMEs but also students and academic staff
WP6	Workshop on developing visions for smart green and healthy cities, Athens, Greece	46	Training on the development of visions for smart green and healthy cities back-to-back to the ICARUS annual	ICARUS partners involved in WP6 and stakeholders

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			meeting	
WP8	3 rd ICARUS summer school, Thessaloniki, (Greece)	48	Students exchange programme supporting dissemination of the project results	University students and junior scientists from ICARUS participating cities
WP8	Workshop on the use of the ICARUS computational tools, Thessaloniki, (Greece)	48	Final training on the use of the ICARUS paradigm and computational tools,	ICARUS partners and stakeholders
