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FLAIR	**H2020**	
csem	Radboud University Nijmegen	Empa Materials Science and Technology
NKT Photonics	NIT New Infrared Technologies / DTU	Senseair

DISSEMINATION AND COMMUNICATION KIT 4

FLAIR - FLying ultrA-broadband single-shot InfraRed Sensor
GA732968

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Abstract:
The deliverable 7. presents revised FLAIR project dissemination and communication kit as of 17/12/2020. The purpose of dissemination activities is to raise awareness about the project, understanding and engagement inside and outside the European Union. All beneficiaries are responsible for the project promotion and results of communication activities. This document will be revised every six month and updated.

Document History

Date	Version	Remarks
11/12/2019	0.1	Initial file
17/12/2020	1.0	Updated version

Document Authors

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Executive Summary

The deliverable 7.14 presents the updated FLAIR project dissemination and communication kit. The purpose of dissemination activities is to raise awareness about the project, understanding and engagement inside and outside the European Union. All beneficiaries are responsible for the project promotion and results of communication activities.

SenseAir AB has composed dissemination toolkit in order to help partners with their dissemination efforts. The kit includes:

- Project logo
- Project description figure
- Image templates: Headed paper, PowerPoint Presentation about the project
- Factsheet
- Initial press release
- Press release by Photonics-PPP 2017
- Project website, social networks and project hashtag
- Brochure
- Publications in media
- Project video

Colour scheme used for the FLAIR visual identity for the website and in other dissemination materials:

- White
- Black
- Red - #F20000
- Grey - #605E5E
- Lemon yellow - #E7FF6E.

Fonts: Helvetica and Helvetica Bold

Dissemination materials contain acknowledgement about the EU funding.

As of 16/11/2018 this deliverable presents the work done from month 1 to month 50. All materials are available to the Consortium members in a separate .zip file.

The Dissemination and Communication kit is revised and updated every six months.

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1. Dissemination materials

1.1 Project logo

Starting from the project logo a visual identity for the FLAIR has been created. The textual part includes the project short name, with red letters “IR” being associated with an infrared optical sensor.

Figure 1 – FLAIR logo

1.2 Image templates

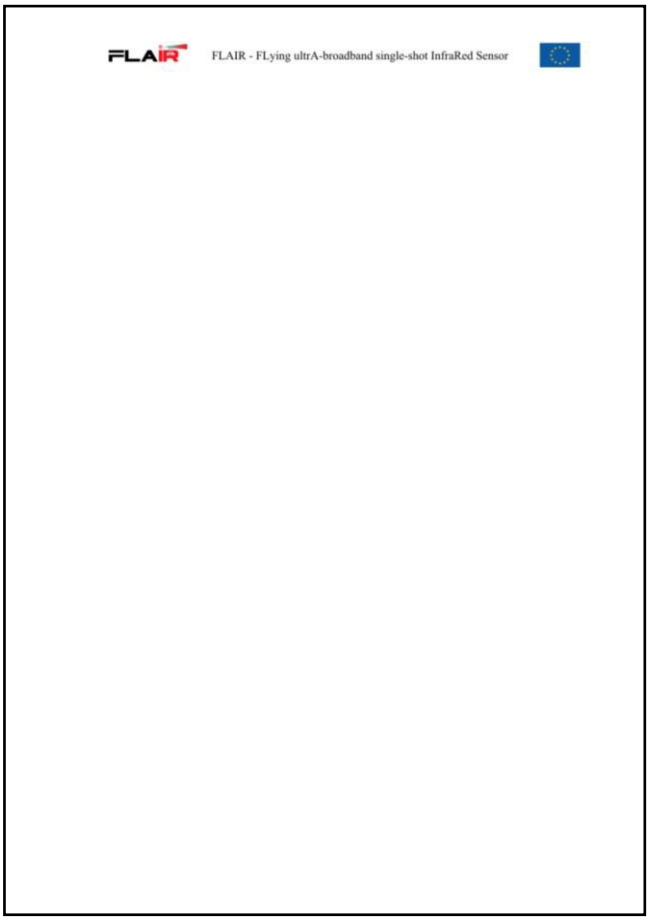

Figure 2 – Document template with header

1.3 Project Power-Point Slides

Figure 3 – Template slides for PowerPoint Presentations

1.4 Project Factsheet

FLAIR - FLying ultrA-broadband single-shot InfraRed Sensor

Project information sheet

Project Title: Flying ultrA-broadband single-shot InfraRed Sensor
Project Acronym: FLAIR

Starting Date: 1st November 2016
Project Duration: 36 months

Call Identifier: H2020-ICT-2016-1
Grant Agreement No 732968

Project Budget: € 4,277,813
EU Funding: € 3,072,020

Project Consortium
TEKEVER II AUTONOMOUS SYSTEMS LDA (Portugal)
SENSEAIR AB (Sweden)
NEW INFRARED TECHNOLOGIES SL (Spain)
EMPA - Swiss Federal Laboratories for Materials Science and Technology (Switzerland)
CSEM - Swiss Center for Electronics and Microtechnology (Switzerland)
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Project website: www.h2020flair.eu

PHOTONICS 21
PHOTONICS PUBLIC PRIVATE PARTNERSHIP

This project is an initiative of the Photonics Public Private Partnership co-funded by the European Union's Horizon 2020 research and innovation programme under grant agreement No 732968

Figure 4 – Project factsheet template

1.5 Press release

The initial press release was published on the project website.

FLAIR - FLying ultrA-broadband single-shot InfraRed Sensor

On November 1, 2016, the **FLAIR** project began under Horizon 2020, the European Union's framework program for research and innovation.

FLAIR – an abbreviation for Flying ultrA-broadband single-shot InfraRed Sensor. **FLAIR project** aims at developing an airborne, compact and cost-effective air quality sampling sensor for sensitive and selective detection of molecular fingerprints in the 2-5 µm and 8-12 µm infrared atmospheric windows. The sensor is based on an innovative supercontinuum laser that provides ultra-bright emission across the entire spectrum of interest. Such a light source in combination with a novel type of multipass cell in conjunction with specifically developed uncooled detector arrays will ensure highly sensitive detection. Broadband single-shot 2D high resolution absorption spectra capture will allow highly selective molecular detection in complex gas mixtures in the ppbv levels in real time. This high performance sensor constitutes a breakthrough in the field of trace gas spectroscopy. Moreover, in a hybrid approach, the main spectroscopic sensor will be complemented by a fine particle detector in order to obtain a complete picture of the air quality. Mounted on an adapted and optimized UAV (drone), the sensor will enable pervasive sensing on large scales outside urban environments where air quality monitoring remains challenging, e.g. along gas pipelines or around chemical plants. Also, **FLAIR** can guide emergency measures in case of chemical fires or leaks, wildfires or volcanic eruptions or even serve for oil and gas exploration or explosives related molecules detection, by far more cost-effectively than for missions on manned research aircraft. As such **FLAIR** provides a novel and ubiquitous tool addressing air quality related safety issues. The sensor prototype will be tested at TRL 4 in the lab and at TRL 5 on-board a UAV in the context of a well-defined and controlled validation test setting.

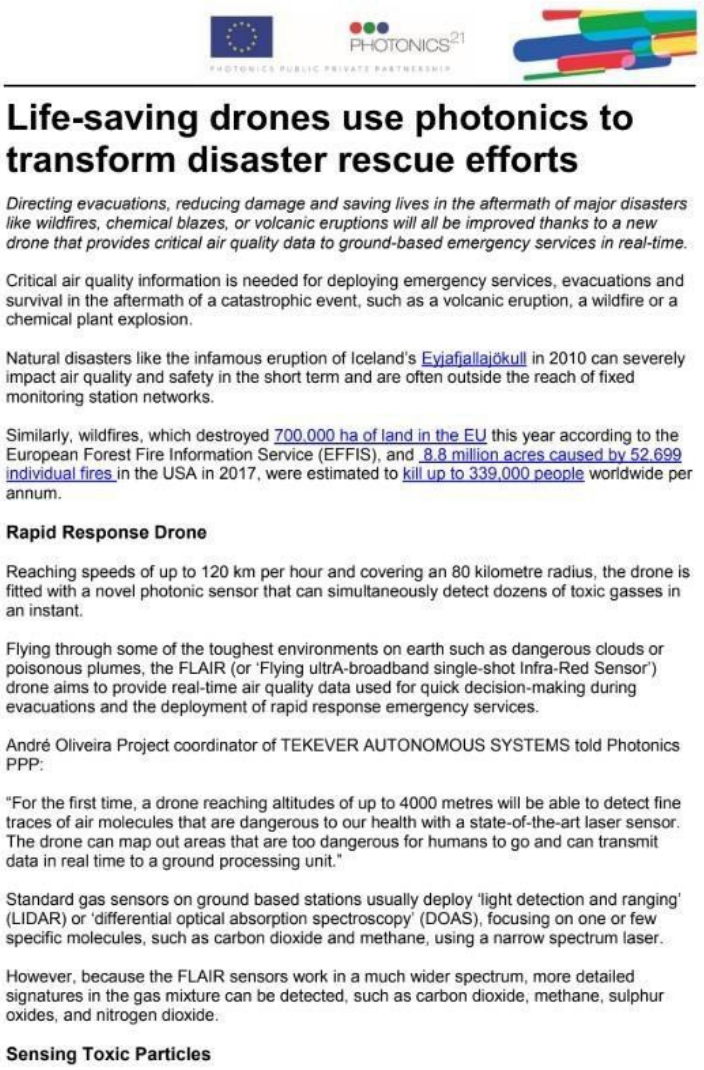
Eight partners – 3 SMEs, 1 industrial partner and 4 RTDs from Portugal, Spain, Netherlands, Sweden, Denmark, and Switzerland, are involved in the project, which will run from November 2016 to November 2019.

The ambition of the project FLAIR is to propose solutions that will provide beyond state-of-the-art technology both at the system (airborne air quality monitoring) and subsystem levels (photonics).

Project details
Project Title: Flying ultrA-broadband single-shot InfraRed Sensor
Project Acronym: FLAIR
Starting Date: 1st November 2016
Project Duration: 36 months
Call Identifier: H2020-ICT-2016-1
Grant Agreement No 732968
Project Budget: € 4,277,813
EU Funding: € 3,072,020
Project Coordinator: Tekever AS (Portugal) Mr. Andre Oliveira

Project Participants
TEKEVER II AUTONOMOUS SYSTEMS LDA (Portugal)
SENSEAIR AB (Sweden)
NEW INFRARED TECHNOLOGIES SL (Spain)
EMPA - Swiss Federal Laboratories for Materials Science and Technology (Switzerland)
CSEM - Swiss Center for Electronics and Microtechnology (Switzerland)
Technical University of Denmark (Denmark)
NKT PHOTONICS A/S (Denmark)
Radboud University Nijmegen (Netherlands)

Figure 5 – Initial press release (available on the FLAIR website)



Life-saving drones use photonics to transform disaster rescue efforts

Directing evacuations, reducing damage and saving lives in the aftermath of major disasters like wildfires, chemical blazes, or volcanic eruptions will all be improved thanks to a new drone that provides critical air quality data to ground-based emergency services in real-time.

Critical air quality information is needed for deploying emergency services, evacuations and survival in the aftermath of a catastrophic event, such as a volcanic eruption, a wildfire or a chemical plant explosion.

Natural disasters like the infamous eruption of Iceland's Eyjafjallajökull in 2010 can severely impact air quality and safety in the short term and are often outside the reach of fixed monitoring station networks.

Similarly, wildfires, which destroyed 700,000 ha of land in the EU this year according to the European Forest Fire Information Service (EFFIS), and 8.8 million acres caused by 52,699 individual fires in the USA in 2017, were estimated to kill up to 339,000 people worldwide per annum.

Rapid Response Drone

Reaching speeds of up to 120 km per hour and covering an 80 kilometre radius, the drone is fitted with a novel photonic sensor that can simultaneously detect dozens of toxic gasses in an instant.

Flying through some of the toughest environments on earth such as dangerous clouds or poisonous plumes, the FLAIR (or 'Flying ultrA-broadband single-shot Infra-Red Sensor') drone aims to provide real-time air quality data used for quick decision-making during evacuations and the deployment of rapid response emergency services.

André Oliveira Project coordinator of TEKEVER AUTONOMOUS SYSTEMS told Photonics PPP:

"For the first time, a drone reaching altitudes of up to 4000 metres will be able to detect fine traces of air molecules that are dangerous to our health with a state-of-the-art laser sensor. The drone can map out areas that are too dangerous for humans to go and can transmit data in real time to a ground processing unit."

Standard gas sensors on ground based stations usually deploy 'light detection and ranging' (LIDAR) or 'differential optical absorption spectroscopy' (DOAS), focusing on one or few specific molecules, such as carbon dioxide and methane, using a narrow spectrum laser.

However, because the FLAIR sensors work in a much wider spectrum, more detailed signatures in the gas mixture can be detected, such as carbon dioxide, methane, sulphur oxides, and nitrogen dioxide.

Sensing Toxic Particles

Figure 6 – Press release by Photonics PPP (available on the FLAIR website)

1.6 Project website, social networks and project hashtag

For project promotion and raising awareness about FLAIR, the website and social networks are also considered to be communication tools.

Project website was launched on 9th of March 2017, and available at the address - www.h2020flair.eu

- LinkedIn - https://www.linkedin.com/groups/12037824
- Facebook - https://www.facebook.com/h2020.flair/
- Twitter - https://twitter.com/h2020_FLAIR
- Youtube - https://www.youtube.com/channel/UC4gffjgmkZ2bQzDah4MvsUg
- Project hashtag - #h2020_FLAIR

1.7 Project description figure

The following picture is used to illustrate FLAIR concept. As of 16/11/2018 it is updated due to switch from AR5 to AR3 UAV-platform.

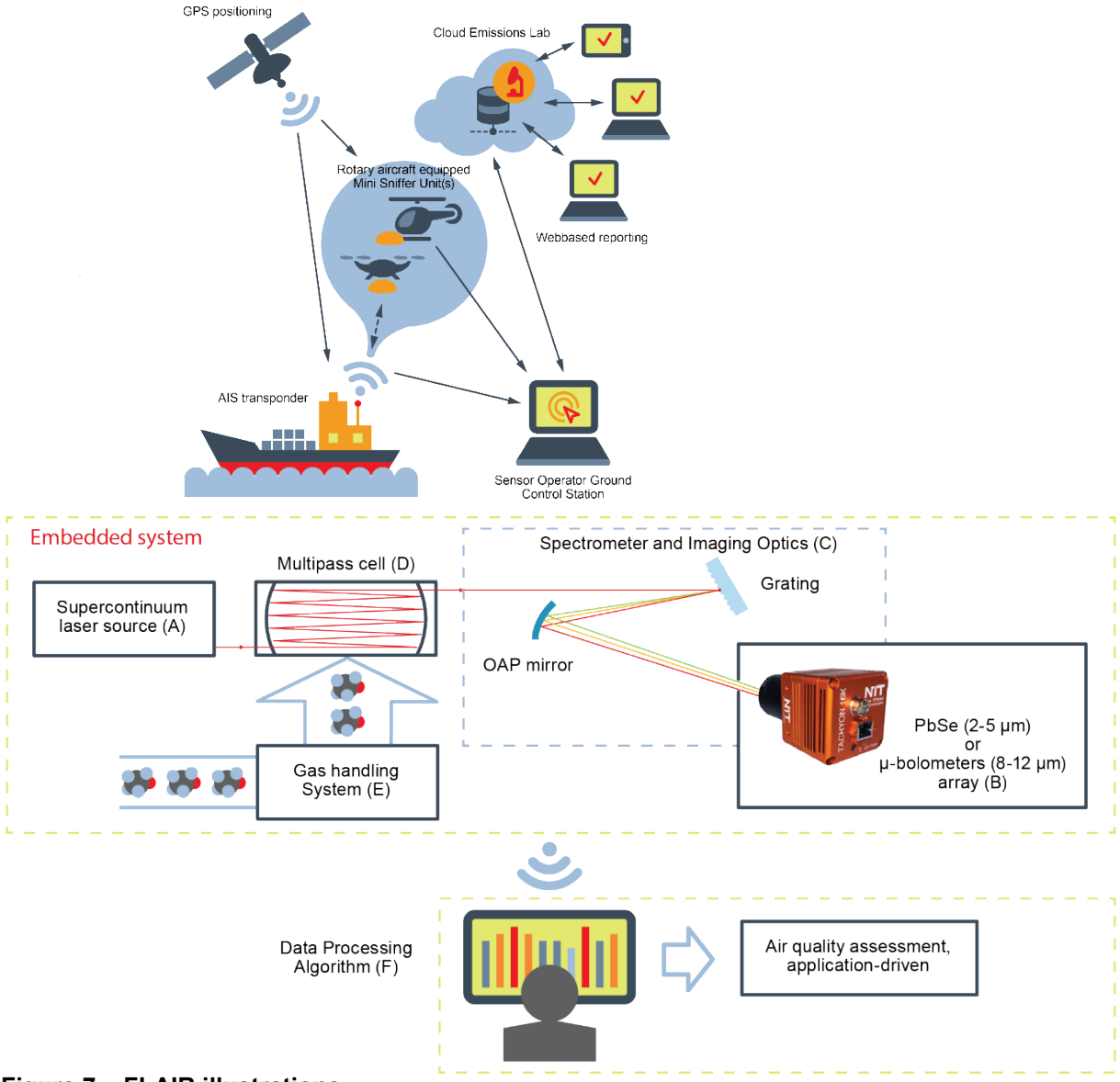


Figure 7 – FLAIR illustrations

1.8 Brochure

The project Brochure is downloadable from the project website for public demonstration. It is used by the consortium members for distribution at conferences, workshops and other events within and outside of the scientific community.

Brochure size before cutting (303*410) = Actual brochure size after cutting (297*404) + bleed (3mm) from each side
Print in format A3+ or A3SR, then cut to size 297*404 and fold

Pictures format: CMYK, 300dpi, Coated FOGRA39
Text was transformed into curves
In each file: 1 page - outside, 2 page - inside.
Better to use 130-170g paper weight

There is a special print layout file available in the Dissemination Kit for printing office to understand how to print and fold the brochure.

Figure 8 – FLAIR brochure photo

1.9 Project video

One documentary and short promotional videos were created and uploaded on FLAIR Youtube page.

Short video - https://www.youtube.com/watch?v=DJZmHhcP530

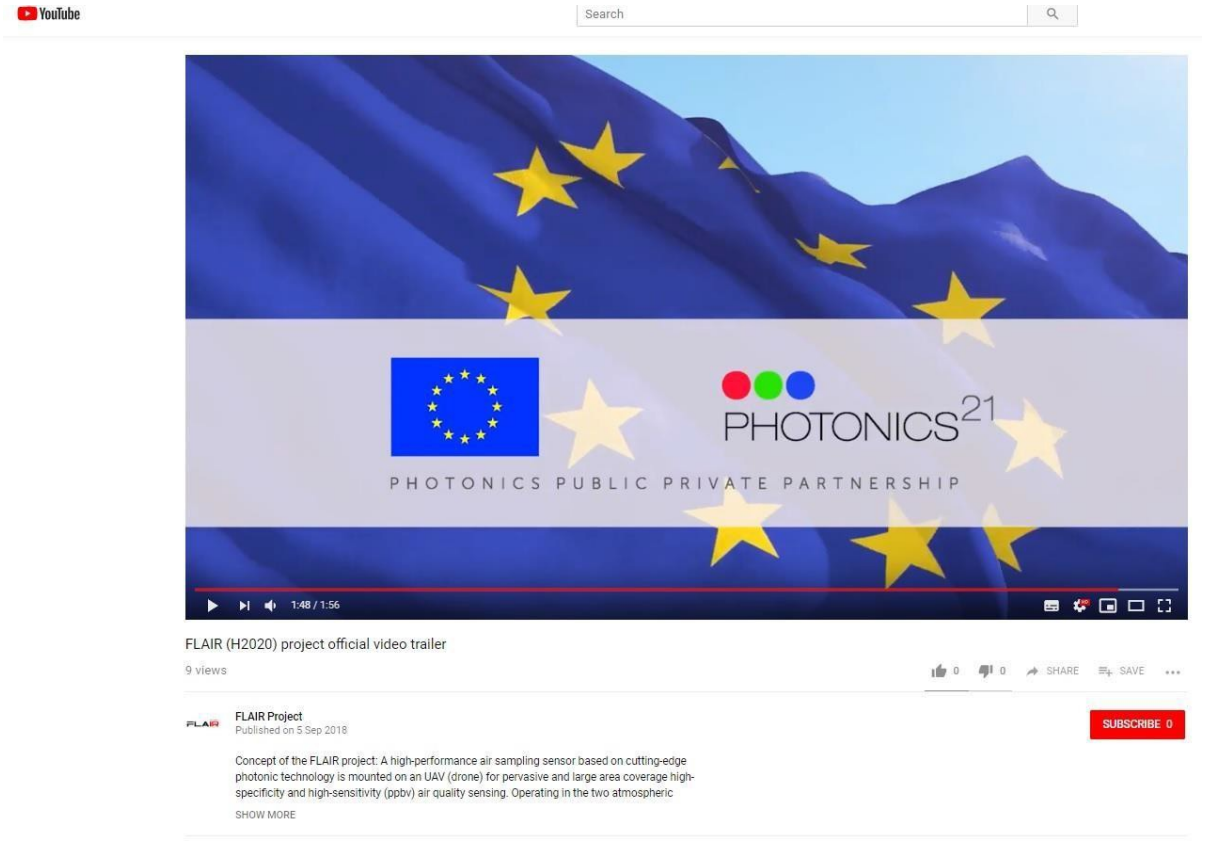


Figure 9 – FLAIR Youtube page with short video

Documentary - https://www.youtube.com/watch?v=9n-hd_zBJ8M

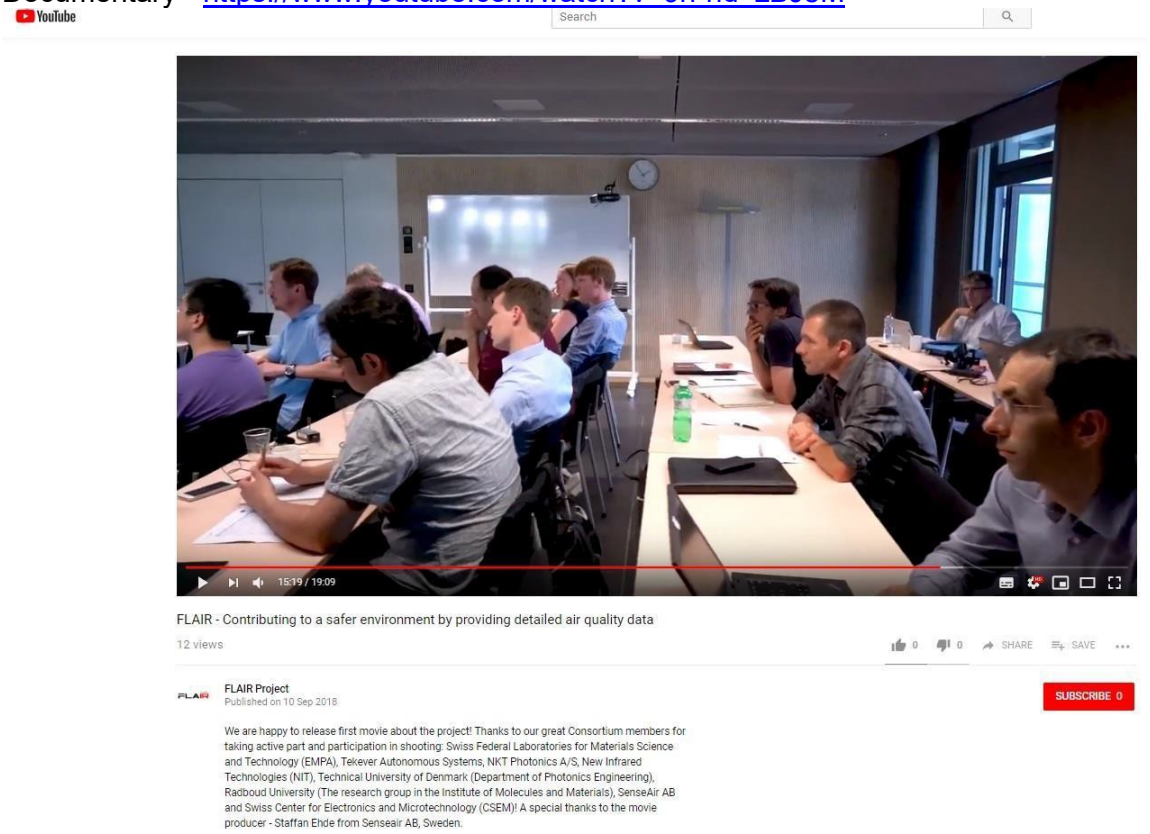


Figure 10 – FLAIR YouTube page with documentary about the project

1.10 - The Photonics PPP Acknowledgement

Acknowledge the Photonics PPP in all project communication and dissemination material by stating that the project in an initiative of the Photonics Public Private Partnership.

More specifically, for workshops, press releases, presentations, etc, the EU emblem and Photonics 21 logo should be prominently displayed together with the text “Photonics Public Private Partnership”. The following combination could be used:

PHOTONICS 21

PHOTONICS PUBLIC PRIVATE PARTNERSHIP

FLAIR is an initiative of the Photonics Public Private Partnership Co-funded by the European Union’s Horizon 2020 research and innovation programme under Grant Agreement #732968.