

**EMPIR 16ENV04 ,Preparedness'
Metrology for mobile detection of
ionising radiation following a nuclear
or radiological incident**



JRP 16ENV04 e-Workshop Creating Impact

Petr Kovar, CMI

10 Dec 2020, Braunschweig

Stakeholder Committee

- ▶ In the beginning of the project, a **Stakeholder Committee** was established for knowledge transfer of the research results and outputs of the project to wide community of stakeholders and end-users.
- ▶ To date, the Committee **8 Collaborators** and **32 other stakeholders** from **universities, public research organisations, industrial enterprises, standards developing organisations, metrology institutes** not participating in the project and other **public bodies**.

Webpages

- ▶ In the beginning of the project, **project webpages** were established for knowledge transfer of the research results and outputs to wide community of stakeholders and end-users.

The **webpage with open access** was created at CMI's server and is being updated regularly (www.preparedness-empir.eu).

The **webpage with restricted access** was created for the project consortium members at NPL's SharePoint and is being updated regularly.

Presentations

- ▶ To date the partners had **67 posters and oral presentations** at international, European and national conferences and workshops in Europe, USA and Japan.
- ▶ The project research results were presented at the NERIS workshops, EURADOS workshops, SPIE 2017 conference, CORES Symposium 2018, ARM 2017 conference, EUROSAFE 2019 conference, ENVIRA 2019 conference, ERPW 2018 conference, CARM 2020 conference and others.

Peer-reviewed papers

- ▶ To date the project partners published **5 scientific papers** in Remote Sensing journal, Radiation Protection Dosimetry journal, Journal of Instrumentation, EUROSAFE 2019 conference proceedings and SMSI 2020 conference proceedings.
- ▶ The project partners submitted **2 scientific papers** to Nuclear Engineering and Technology journal and Radiation measurements journal.
- ▶ **8 scientific papers** are being prepared.

Good Practice Guides

- ▶ **2 Good Practice Guides** are being prepared:
- ▶ Good Practice Guide on **Measurement of dose rates and radioactivity concentrations using unmanned aerial detection systems.**
- ▶ Good Practice Guide for **Harmonisation of passive dosimetry for environmental radiation monitoring in Europe.**
- ▶ **NPL will publish the good practice guides** via a download option on the public NPL website.

- ▶ The project results were disseminated to:
- ▶ **ISO/TC147, ISO/TC85, IEC/TC45 and CENELEC/TC45B** technical committees
- ▶ **EURAMET TC-IR** (Technical Committee for Ionizing Radiation) meetings
- ▶ **BIPM CCRI(I) and BIPM CCRI(II)**(Consultative Committees for Activity of radionuclides and Dosimetry) meetings
- ▶ **ICRM WGs** (International Committee for Radionuclide Metrology) meetings.

Workshops

- ▶ The **first workshop** for stakeholders and end-users was linked to the Conference on Applied Radiation Metrology organized and held by NPL in November 2020 as CARM 2020.
- ▶ The **second workshop** was planned for May 2020 during an airshow in Vyskov (CZ). This workshop and airshow had to be cancelled because of COVID-19. New date for this action is May 2021.

Training courses

- ▶ The **first training course on Detection, dosimetry and radiation protection** was organized in October 2019.
- ▶ The **second training course** was organised and held in Seelingstaedt during **UAV measurement campaign** in March 2020.
- ▶ The **third training course on Radioactivity monitoring using UAVs and airborne radioactivity monitoring** was planned in May 2020 during the airshow in Vayskov (CZ). This action had to be postponed to May 2021 because of COVID-19.

Technical visits

- ▶ **A5.2.3: At least three short technical visits** of scientists between the project partners will be organised **in connection with the project meetings. PTB**

On schedule.

First technical visit was organised in May 2018 in Ispra and the development of detector systems for non-governmental and official monitoring (**T3.3**) were discussed.

Second technical visit was organised in January 2019 in Ljubljana and the development of transportable air-sampling systems (**T2.2**) were discussed.

Third technical visit was organised in September 2019 in Bilbao and the development of unmanned monitoring systems (**T1.2**) were discussed.