### Work Package NA2 Training, Communication and Outreach for Accelerator Science in Europe (TCO)

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| **Work package number**  | 2 | **Lead beneficiary** | UOXF |
| **Work package title** | Training, Communication and Outreach for Accelerator Science in Europe |
| **Participant number** |  |  |  |  |  |  |  |
| **Short name of participant** | UOXF | CERN | CNRS | ESS | UNILIV | RTU |  |
| **Person/months per participant:** | 8 | 12 | 22 | 4 | 2 | 9 |  |
| **Start month** | M1 | **End month** | M48 |

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| **Objectives** **Task 2.1. Coordination and work package communication*** Coordinate the activities of tasks 2.2, 2.3 and 2.4.
* Provide internal communication within WP2, and between WP2 and the other project WPs.

**Task 2.2. Coordination, support and enhancement of communications/outreach activities for accelerators in Europe*** Provide internal and external communications functions for the project.
* Monitor communications/outreach provision in Europe, in a worldwide context.
* Promote sharing of resources and good practice in accelerator communications/outreach throughout Europe.
* Assess the needs for, and promote, additional communications/outreach activities.

**Task 2.3. Coordination, support and enhancement of training activities for accelerators in Europe*** Monitor accelerator training provision in Europe, in a worldwide context.
* Promote sharing of resources and good practice in accelerator training throughout Europe.
* Assess the needs for, and promote, additional training activities.

**Task 2.4. Provide an e-learning course: introduction to accelerator science, engineering and technology*** Survey existing e-learning initiatives in relevant physical sciences disciplines.
* Define the intellectual content of the e-learning course.
* Survey e-learning tools and select an appropriate tool.
* Set up the e-learning course in test mode.
* Define resources required to launch, maintain and run the course on a sustainable basis.
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| **Description of work** **Task 2.1. Coordination and work package communication** (UOXF, CERN, ESS, CNRS)This task will provide overall management and coordination of activities within each of tasks 2.2, 2.3 and 2.4 and among the three tasks. It will also provide management of the interface of WP2 with the other WPs and with the management of the EUCARD3 project. Dissemination of results will be done at WP and project meetings and workshops, and via milestone and deliverable reports (see below). UOXF will coordinate in preparing the mid-term and final WP reports.**Task 2.2. Coordination, support and enhancement of communications/outreach activities for accelerators in Europe** (CERN, UOXF, UNILIV)This task will provide internal and external communications functions for the EUCARD3 project. The task will deliver the first entry point to the project, the project public website. News from the project is to be circulated to project members, posted on the public website and also distributed via a periodic newsletter sent to a wider accelerator community under the framework of Accelerating News. The task will also monitor, via the network, communication/outreach activities across the European accelerator community. Best practice will be shared and disseminated via the network meetings and workshops, and actions for improving communications/outreach activities will be identified and promoted. CERN will provide internal communications within the project, as well as provide its external communications interface, and the www infrastructure for the broader coordinating activities of the WP via tasks 2.2, 2.3 and 2.4. CERN and UOXF will organise and lead the network workshops and meetings that will provide the coordination of communications/outreach activities and practice across Europe. Associate partners*: UNILIV, KIT***Task 2.3. Coordination, support and enhancement of training activities for accelerators in Europe**(ESS, UOXF)This task will monitor, via the network, training activities across the European accelerator community. Best practice will be shared and disseminated via the network meetings and workshops, and actions for improving training activities will be identified and promoted. ESS and UOXF will organise and lead the network workshops and meetings that will provide the coordination of training activities and practice across Europe. ESS will lead in preparing the deliverable report.Associate partners*: CERN, UNILIV, AARHUS, KIT***Task 2.4. Provide an e-learning course: introduction to accelerator science, engineering and technology** (CNRS, UOXF)This task will provide an e-learning course, aimed at undergraduate students, and deliver a basic introduction to the concepts of accelerator science, engineering and technology. This is a large cohort of students which in large part currently has no access to training in the discipline. The course will aim to provide sufficient exposure to allow undergraduates to make informed career choices in relation to subsequent industrial or academic careers in the accelerator (and related) sector(s). For those who choose postgraduate study the course would provide a sound basis for entry into the more advanced postgraduate training opportunities provided by (for example) the CERN and JUAS accelerator schools. The main elements of the task will be to: survey existing e-learning initiatives in relevant physical sciences disciplines and draw lessons to guide the design of the proposed course; define the intellectual content of the e-learning course with input from experts across Europe via the network meetings; survey e-learning (‘MOOCS’) tools and select an appropriate tool for implementation of the course; deliver the e-learning course with recording of materials and input from the network participants; run the course in test mode; define the resources required to launch, maintain and run the course on a sustainable basis. **The course will be optimized for delivery on multiple platforms and will meet the requirements of multi-screen e-learning. User behaviour data and learning analytics will be used to evaluate course quality and provide feedback for course improvement. (RTU has an experience in delivering multi-screen e-learning including production of professional videos and using learning analytics). To improve comprehension the critical processes of accelerator science will be illustrated by interactive multimedia content.** CNRS and UOXF will organise and lead the network meetings that will define the e-learning course content and implementation. CNRS will take lead responsibility for technical delivery of the e-learning course.Associate partners*: CERN, UNILIV, ESS, AARHUS, KIT, LANCASTER, RIGA, STOCKHOLM, JYVASKYLA* |

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| 2 | M | M25 | UOXF | *Task 2.1* | Mid-term report on WP activities.  |
| 2 | D | M46 | UOXF | *Task 2.1* | Final report on WP activities.  |
| 2 | M | M6 | CERN | *Task 2.2* | Project www site for internal and external communications, and for enabling network activities coordinated in tasks 2.2, 2.3 and 2.4 |
| 2 | D | M37 | CERN | *Task 2.2* | Report on coordination of communication/outreach activities, documenting ongoing and proposed activities and identifying any required additional resources to support proposed initiatives. |
| 2 | M | M24 | ESS | *Task 2.3* | Network workshop on training activities in Europe in a global context. |
| 2 | D | M39 | ESS | *Task 2.3* | Report on coordination of training activities, documenting ongoing and proposed activities and identifying any required additional resources to support proposed initiatives.  |
| 2 | M | M12 | CNRS | *Task 2.4* | Meeting to agree MOOC platform and academic structure and content of e-learning course. |
| 2 | D | 36 | CNRS | *Task 2.4* | e-learning course delivered in test mode, ready for use. |