TEMPLATE

Output factsheet: Tools

Version 1

Project index number and acronym	CE634
Lead partner	IDM
Output number and title	O.T2.2 – Moodle platform for E-Learning of methods and KACE Technologies
Responsible partner (PP name and number)	Krakow Technology Park, PP10
Project website	http://www.interreg-central.eu/Content.Node/3DCentral.html
Delivery date	31.01.2018

Summary description of the key features of the tool (developed and/or implemented)

The tool offers dedicated courses on smart engineering and rapid prototyping technologies identified within the 3DCentral project as 11 Knowledge Axis for Central Europe (KACE). The courses have been prepared by PPs who are leaders in relevant KACE topic:

1 methodical course - "Brain base" - consisting of 4 courses on: knowledge management, transfer management, Innovation management and tools. The methodical course is the CE Brainbase, which consists of four subtopics. Those four topics are prioritised within the KITTS Curriculum in the first stage of the training, because they are considered as the base pillars, which are essential for understanding knowledge, innovation technology transfer and the appropriate methodologies and tools, which can be used to facilitate the knowledge transfer.

10 thematic courses on specific technologies: Additive manufacturing, 3D Design/ Engineering/ Scanning/ Simulation, Smart and functional materials, Digital life, Technologies for sustainable manufacturing, Virtual and augmented reality for manufacturing, Value-added virtual supply chains, Smart services, Robotics (components, machines and intelligent robot), Mechatronics (sensor, monitoring and control). Each of the courses contains Beginning with introduction, the main content of the course and a form of course completion (f.eg. homework, quiz etc.) **.** The thematic courses consist of 10 different topics, which are more practical oriented and consists of elective courses depending on the interests of the target group. Each partner has to contributed on at least two courses (KACE Leader, KACE Supporter).

The platform offers also an event calendar, which can be used by partners to inform about the upcoming events related to one or more thematic fields and a forum for discussions.

NUTS region(s) where the tool has been developed and/or implemented (relevant NUTS level)

The Moodle platform covers all the 6 regions of the involved project partners:
South Tyrol region
Lombardy region
Styria region
Saxony region
…………………………….
Malopolska region and south Poland

Expected impact and benefits of the tool for the concerned territories and target groups

Interreg
CENTRAL EUROPE
European Union
European Regional
Development Fund

TAKING **COOPERATION** FORWARD

The goal of the projects is to promote the transfer of knowledge, experience and technologies in a collaborative learning environment, therefore the impact of the 3DCentral Tool is to collect, categorize and promote the specific know-how on smart engineering and rapid prototyping technologies (3D Central 11 KACE topics), serve as a training instrument to empower stakeholders, to foster the innovative potential that has been developed in CE, in order to provide improve skills and competences of the relevant target groups, to enable transfer of knowledge and innovation, to help in finding new innovative cooperation and networking opportunities. The main target groups are: project partners, KITTS, experts, stakeholders, solution providers and solution receivers, but also all the interested groups on transnational level.

Sustainability of the tool and its transferability to other territories and stakeholders

The main outputs of our projects are to encourage discussion, critical and reflective thinking and to foster the exchange of ideas and thoughts, anchoring a practicable, user-friendly, replicable and future robust system. This is mainly done in the e-learning environment Moodle. Moodle (acronym for Modular Object-Oriented Dynamic Learning Environment) is a free and open-source software learning management system developed on pedagogical principles, for extending and tailoring learning environments. Moodle is used for blended learning, distance education and other e-learning projects in schools, universities, workplaces and other sectors. The main benefits of using Moodle tool as a sustainable and transferable tool are its usability (easy set-up, easy registration, responsive design) and its accessibility - it is suitable for both expert and beginners in the communication fields.

The Moodle tool provides opportunities for relations and sharing information within its members, f.eg. by the use of discussion forums. It can provide a very effective environment for the group work and the integration of other stakeholders. This helps to build relationships of trust within the members and draw them to feel part of a community. Moreover, we will use the Group Calendar function of Moodle with the aim to enhance content and network, and to create a bigger stakeholder network.

During the initial period of content development and course creation, access is limited to internal user groups. After additional thorough testing of courses functionalities and knowledge transfer the platform can be opened widely to any group of interest.

Lessons learned from the development/implementation process of the tool and added value of transnational cooperation

Development process allowed us to learn possibilities of a comprehensive e-learning tool, several plugins offering additional functionality both in user interface behaviour and within administrative scopes.

A market review has been done in order to find an appealing and simple design (theme) of platform's interface. Lambda theme has been purchased and implemented.

User tests indicated that the e-learning environment is well designed. The research outcomes indicate that user interface is intuitive and navigation is easy in use. The platform works adequately to the needs and what users are used to.

The respondents notice that there are still some elements of the platform that indicate the „work in progress" state. Above all most of them were surprised by the quality of the platform and the ease of the use of the interface.

The most problematic scopes of the platform in the beginning were: registration of the users, description of the modules and courses, content and flow of the courses, clear rules of joining and passing the course.

Admin group registered users representing partners, whose role has been course creators or teachers, and KITT's representatives who has used the platform for testing and a final curriculum fulfilment.

In order to facilitate problematic issues a set of tutorials has been created and distributed to platform users. They cover:

- 3DCentral trainingtool web page navigation
- Course enrolment and execution
- In depth course creation – sections, activities, readings and video implementation
- Questionares and quizzes

Some additional engagement is planned for the future as the platform will have to be prepared for open access. Self, email registration, curriculum monitoring, students' certificates.

References to relevant deliverables and web-links
If applicable, pictures or images to be provided as annex

3D Central Training Tool (requires login): https://trainingtool.3dcentral-interreg.eu/moodle/
3D Central internal video channel (requires login):
https://www.youtube.com/channel/UCphSyCFZI2mYkQPOU_4T4DQ

Moodle Organization webpage: https://moodle.org/
Envato Market (moodle themes and Lambda Theme support page): https://themeforest.net/item/lambda-responsive-moodle-theme/9442816