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## BizMOOC Result 4.2b

Evaluation Report on Pilot MOOC 2 -Innovation, Creativity & Problem-Solving

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# Evaluation Report on Pilot MOOC2 – Innovation, Creativity & Problem-Solving

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### Table of contents

Executive summary
Introduction7
General Information about the course
Overview
Design Process8
General overview of the course13
Target groups14
Promotion15
Learning Outcomes and Measurement17
Enrolments18
Certificates19
Evaluation
Description of evaluation and quality assurance process
Review design20
Review before launch of MOOC21
Post-evaluation of the MOOC23
Summary of post-course participants survey25
Lessons Learnt
Recommendations
Good practice
Conclusion
References
Annexes





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### Abbreviations list

BFU – Burgas Free University (Bulgaria)
CC – creative common
ECTS – European Credits Transfer System
ICT – information and communication technology
ITV – IT Valley (Slovakia)
MOOC – Massive Open Online Course
MOOC2 – pilot 2 MOOC within the BizMOOC project, focused on Innovation, idea creation and problem-solving titled *"How to generate creative ideas and how to make them work"*UA – University of Alicante
Unimooc – platform of MOOCs offered by the University of Alicante (International Economy Institute team)









### Evaluation Report on Pilot MOOC 2 – Innovation, Creativity & Problem-Solving

### Executive summary

The second Pilot MOOC (Massive Open Online Course) of the BizMOOC project was created, according to the project proposal, to deal with the Lifelong Learning key competence "Sense of Initiative" and was narrowed after consultation with stakeholders, market research, and the fundings authority to "innovation, creativity and problem solving". It was designed considering a focus on the basics of idea creation and to reuse open licensed contents as much as possible.

The course contents included an introduction presenting creativity as a human innate capacity and a set of resources such as ideation methods, effective problem solving strategies, critical thinking, learning from failure, prototyping ideas, etc. Despite the rather shy participation in the first edition of this MOOC, after a more aggressive promotion of MOOC2, in the 2nd edition the number of students enrolled was almost tripled. In the two editions a total of 2,081 students were enrolled from 57 countries with a clear majority of Spanish-speaking countries. In line with the Learning Design approach of the Open University (UK), an updated version was elaborated furthering the didactical design of MOOC2.

17 experts, 151 learners, two MOOC developer teams and two external evaluators carried out the evaluation described below using diverse approaches. The course completion rate is slightly lower than MOOCs average generally expected to range between 5 and 15%. Even though, the feedback received from the participant's points that they would recommend this course or other courses developed under the BizMOOC umbrella and they are open to future participation in BizMOOC courses.

Among the most relevant conclusions, it is worth mentioning the complex task of developing and managing a cMOOC, which it is not always the most suitable type of MOOC to be







implemented. Choosing the type of MOOC to be developed and implemented must take into account several aspects as the subject criteria it's not enough. In fact, the course platform was probably not ready to incorporate cMOOC features, and a complete platform redesign was almost certainly required. Next, the diverse background and lower levels of previous MOOC production experience within the development team was challenging and enriching (for learning and getting more target group insights) at the same time.

The low participation in the first edition was overcome due to the improvement of the promotion strategy of this type of MOOC. It is clear that promotion is a key to success, but, at the same time, might be an important challenge.

Critical thinking and problem solving strategies were the main topics according to the pre-course survey. Enrolees indicated that the course shows new ways of thinking and how to improve creativity and contributes to a proper development of critical thinking in the long term.

Among the main barriers identified by the enrolees, the lack of time availability and the low direct applicability to individual's current work is worth being mentioned. An additional challenge were the unequal language skills of the enrolees deriving from different language communities (with Spanish the largest, but also English and many South and Eastern European countries which asked for local languages) that could be one of the explanations of the low completion rate and the rather low number of active participants among the community created around this course.

The pilot implementation however resulted in many valuable key lessons learnt and recommendations, which have been fed into the overall reports of the BizMOOC project and the new version of the MOOC BOOK to be published in October 2018 (mooc-book.eu).



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### Introduction

Massive Open Online Courses (MOOCs) has been exponentially increasing due to a variety of factors. The evolution of information and communication technology (ICT) in the last decades in conjunction with the increased demand of a tailored education which better adapts to the needs of each (formal or informal) learner conduced to a shift in the format and pedagogical base of the educational system in recent years. This new format and pedagogical approach are the most important ones which makes MOOCs very suitable for teaching and learning concepts, methods and theories, while facilitating the achievement of practical skills and competences and last but not least, for boosting the sense of innovation and the creativity of the educational process participants.

Moreover, MOOCs offer to a diverse community of participants the opportunity to share ideas and get deeply involved in the subject through a rich variety of synchronous and asynchronous online activities. This document describes the pilot MOOC 2 "*How to generate creative ideas and how to make them work*" developed and implemented under the umbrella of BizMOOC project and delivers a detailed analysis of its evaluation process and results. While it presents a general description of the course and its production process, it also includes a different evaluation of the results, some lessons learnt and recommendations with some conclusions from each evaluation. There are also complete data on each evaluation step as annexes.

The content of this MOOC was focussed on generating innovative ideas and making them work. Along with the main aim of teaching idea generation strategies and tools to exploit them, it also teaches other relevant skills such as learning from failure and problem solving. This course was aimed to:

- Present creativity as a human innate capacity
- Stimulate the deployment of creative potential
- Teach a range of different techniques to generate ideas
- Teach strategies and techniques for effective problem solving
- Help you to identify and learn from failure
- Allow you to get to know approaches and criteria for evaluating and selecting ideas

MOOC2 was structured into six modules to be open (each one of them) during one week. The estimated workload per module was of about 5 hours study time each. Thus, MOOC2 was









estimated to need a dedication of about 30 hours in average. Students that completed a module were awarded with the module's respective badge. Only in the case of getting all six badges enrolees could obtain a certificate of attendance.

### General Information about the course

#### Overview

Title of the MOOC: How to generate innovative ideas and how to make them work

BizMOOC website link:

http://bizmooc.eu/how-to-generate-innovative-ideas-and-how-to-make-them-work/

Course link: <u>https://learn.unimooc.com/student/courses/course?course=innovative-ideas-2</u>

**Platform used**: UniMOOC (unimooc.com), International Economy Institute, University of Alicante

**Creators**: University of Alicante - Francisco Gallego; Burgas Free University - Mariya Zheleva and Yanislav Zhelev; IT Valley - Andrea Kalafusova and Nina Tršková.

#### **Design Process**

The design of the MOOC followed the methodology of Learning Design (Galey, 2015) as established during the meeting carried out at the Open University (Cardiff, UK) in March 2017. Thus, it was defined by the *Methodology of Pilot MOOCs* (project deliverable R3.1).

The first step in this process was setting up the production team during the workshop leaded by the Open University in Cardiff. The team was formed, as planned in the project's proposal, based on the cross-sectoral and interdisciplinary MOOC teams. Thus, a MOOC experienced higher education institution (hereinafter HEI), a MOOC non-experienced HEI and a business partner. The two higher education institutions included in the team were the University of Alicante and Burgas Free University. The cross-sectoral and interdisciplinary perspective was achieved by including also an industry partner. Initially, it was iversity GmbH (Germany), but it had to be







replaced by Košice IT Valley z.p.o. (Slovakia) due to the status of iversity GmbH. The whole design process was a "learning by doing" experience as, despite the previous experience of the University of Alicante in the MOOC production and implementation, this was an intercultural (in a wider sense) and more complex experience for each one of the members of the team.

One of the main challenges of the MOOC aimed at achieving (in line with the project porposal) was its type: cMOOC. This type of MOOC is based on the connectivist approach of Downes (2012) and Simens (2005); summing up, it is about knowledge building through connection and collaboration with peers (Simens, 2010) where learners are co-creators of the content (Cabero et al., 2014; Joksimovic et al., 2015). Additionally, cMOOC are not including a formal evaluation of the learning achievements. In this type of MOOCs, it is essential to focus on the early instructional design and facilitation, as this is the main role of teachers.

Moreover, given the use of various sources for sharing information and resources among learners more attention should be paid to the optimal sources that learners might use. Taking into consideration each student's profile, goals and social context might be the way towards an adaptive MOOC design facilitating a better functioning of a cMOOC (Fidalgo-Blanco et al., 2013).

After a long decision making process regarding the design of this course and its implementation, the team concluded that an xMOOC would need to be the starting point and on the way come up with additional tools necessary to make it more connective within learners. Therefore, it was designed as an xMOOC with some cMOOC features.

Still, the mass, heterogeneity, conductive collaborative activities and management of distributed and generated knowledge resources are some of the characteristics of cMOOCs that make it much more difficult to manage than a traditional xMOOC, for example. Following Fidalgo-Blanco et al. (2013), several aspects were kept in mind when designing this MOOC:

- In order to facilitate groups with similar profiles or individual learners to propose activities within cMOOCs, adaptive technology and methodology were considered. It was meant to tackle these aspects through a continues adaptation of the methodology while counting with a good participation rate.
- Make use of the learning analytics aiming at helping learners in their selection of resources, the collaborative connectivist activities in accordance to their goals, as well as

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and the relationship with resources more typical for other profiles. With a low rate of active learners this was not an easy task.

 Given the double role of participants as learners and knowledge co-creators, promoting and managing the creation of collaborative resources learning communities linked to the MOOC were considered essential. Once more, the low activity rate of learners consisted one of the main barriers.

Throughout the process, several UniMOOC platform adaptations were required with specific implementation for connectivity tools.

Since the beginning of the design process it was considered one of the most frequent issues within MOOCs, the high dropout rate that might have an even worse impact on cMOOCs than on other types of MOOCs. Thus, a quick shift towards another type of MOOC was foreseen from the initial stage of MOOC2 despite the high expectations of enrolment among the learners of Unimooc platform.

From the very beginning of the design process, given the composition of the team in charge of this MOOC, especially experts in IT, the course was shaped according to the following ideas:

- The course is emphasising on the basics of *idea creation* as an introductory course to the "Creativity" topic open to a broader audience. It is not meant to facilitate knowledge on how to build a start-up but e way to find the idea for it.
- Existing videos and materials were considered for beeing reused when counting with open licensed contents from other courses. Learners, as co-creators of knowledge within this MOOC, are supposed to use this kind of materials for the cMOOC platform and group activities.
- Taking advantage of the community of learners interested in MOOCs, coursemonitoring tasks were to be reduced.

Thus, based on a continues communication among the team members and the consortium, different proposals for course materials and activities with time estimation were defined. Open licenced content was pre-selected to be reviewed and eventually included in the course. Next step was the development of the summary content and track relevant course components.





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After the refinement of the content, including introductory videos for each module, a Presskit was developed including promotional videos.

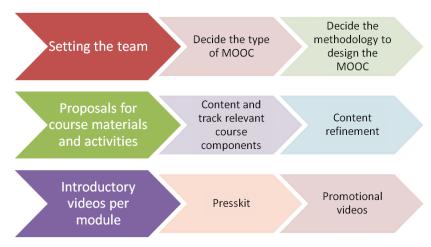
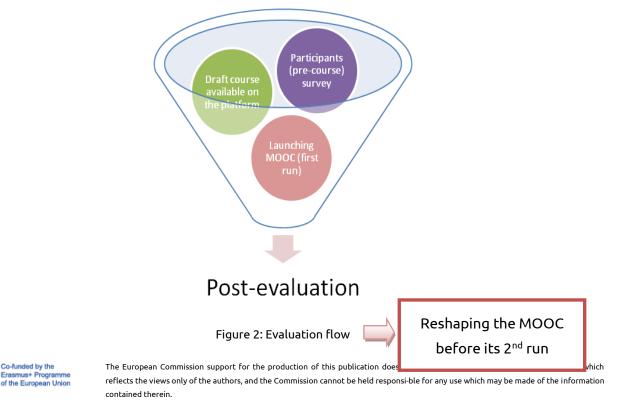


Figure 1: Steps of the design process

Before launching the MOOC a pre-course survey was designed and delivered to the community of potential learners aiming at better adapting the methodology and course to the real needs and expectations of future learners. After the first edition of the MOOC (November-December 2017), a post-evaluation process was implemented with the objective of improving the course before launching its second edition.









The course was structured in six weeks with a total of six modules open, online and free of charge in two different editions. Learners were expected to dedicate about 5 hours per module in order to complete all the activities and obtain the corresponding badge.

Module	Title	Learning outcomes	Dedication
1	Introduction to the course and creativity	<ul> <li>Get to know the course and its platform</li> <li>Present creativity as a human innate capacity</li> <li>Stimulate the deployment of creative potential</li> <li>Communicate/get to know other learners in the</li> </ul>	5 hours
2	Ideation techniques and different ways of thinking	<ul> <li>same group</li> <li>Get to know a range of different techniques to generate ideas.</li> <li>Learn the difference between convergent vs. Divergent thinking</li> <li>Be able to identify, use and discuss on ideation methods</li> </ul>	5 hours
3	Critical thinking and problem solving methods	<ul> <li>Get to know what is critical thinking and the main steps of the process</li> <li>Learn strategies and techniques for effective problem solving</li> <li>Identify the steps to solving a problem effectively</li> <li>Learn how to make the ideas visible, tangible and consequential</li> </ul>	5 hours
4	Learning from failure and prototyping ideas	<ul> <li>Identify and accept failure</li> <li>Realise that you can actually learn from failure</li> <li>Prototyping ideas</li> <li>Get to know and use a concept map</li> </ul>	5 hours
5	Intellectual Property, Open Licensing and Idea Evaluation	<ul> <li>Improve the skills to search, reuse, adapt, and compose new solutions from already developed by the others ideas</li> <li>Get to know approaches to, and criteria and principles for, evaluating and selecting idea</li> <li>Improve the skills for defining and understanding different criteria for evaluating ideas.</li> </ul>	5 hours
6	Final assessment and group activity	<ul> <li>To demonstrate the acquired skills in generating, presenting and evaluating innovative ideas</li> </ul>	5 hours

Table 1: How to generate creative ideas and how to make them work. Learning outcomes.









#### General overview of the course

The course aims at introducing enrolees to the idea creation, innovation, creativity in a broad way as well as to problem solving topic. By using an e-learning platform (Unimooc) and selected open licenced contents, but with a connectivist approach, based on social learning and cooperation, participants had the opportunity of getting in contact and collaborate in the learning process in a multicultural and interdisciplinary background.

The first week was dedicated to the introduction to the creativity and facilitating the connection between enrolees and the future connectivist activities planned in the following weeks and modules. The group activity as designed as an unconventional self-intro, an activity through which each enrolee introduces itself by using "A photograph (a photo collage or video) that represents YOU". Each participant was expected to use a photo that speaks 500 words about who the participant is. Once the photo was embedded into a post, the intros will be voted and discussed in groups.

The second week facilitated an introduction to different ideation methods, e.g. divergent and convergent thinking, creative thinking or creative styles, among others. By using one ideation techniques, enrolees come up with creative ideas on one of the suggested topics which were to be improved through discussions with the rest of the participants.

The third week gave learners some insights regarding critical thinking and problem solving strategies and techniques. Within this module, enrolees were expected to study a specific common problem and draft a fishbone diagram aiming at coming up with ways to solve it. A Google drawing template was facilitated to the participants for this group exercise in order to analyse, discuss and evaluate others' outputs.

The forth week, enrolees started to see the possibility of learning from failure and prototyping ideas. Within this module, the group activity consisted of creating a concept map for "personal brand creation" and share it. Enrolees shared their concepts maps on how to create a personal brand and commented others' maps.

The fifth week was dedicated to an introduction to Intellectual Property Rights and Open Licensing during the process of idea generation. One of the most relevant group activities within this MOOC was the one related to the module five which entailed searching for and evaluating "interesting" CC resources regarding any of the following topics: how can you improve your eating habits, how stop smoking or how get more self-organised. A minimum of 2 samples was







required per enrolee to be shared within their respective groups. The best ideas were selected through voting and awarded with badges.

During the 6<sup>th</sup> week, a final module was carried out mainly focused on evaluating the knowledge acquired throughout the five previous modules. One of the group activities consisted of the "Jury of Ideas", designed as a kind of peer review with the following two parts:

- Presenting an innovative idea. Each enrolee had to come up, develop and present an innovative idea on a free topic making use of any of the tools introduced in the course in order to present it (e.g. fishbone diagram, concept map, etc.)
- Jury of Ideas. Enrolees had the opportunity to discuss the ideas of the rest of the participants within the course group forum.

#### Target groups

Under the economic crisis context, unemployment was not a novelty in Europe. Many young adults and not that young had to deal with unemployment. A possible way out of this status, at least for part of them, seem to be innovation, creativity and problem solving. Thus, this MOOC was aimed at coping with these aspects emphasizing some of the skills required by the labour market as the sense of initiative, digital competences, communication in foreign languages, creativity as well as cultural awareness and expression. With such a context, target groups were defined as follows:

- Students (just graduated with no job expectation and willing to acquire practical knowledge) mainly from Latin America and Eastern-Europe;
- Low-skilled employees that want to improve their capacities;
- Multipliers: other projects, incubators, accelerators and Chambers of Commerce that facilitate start-up companies.

As already mentioned previously, MOOCs face several challenges: the mass, heterogeneity, high dropout rates (generally around 90%), low completion rates (commonly around 10%), low engagement in the connectivist activities (Fidalgo-Blanco et al., 2013; Fidalgo-Blanco et al., 2016) and even scarce language skills. With the MOOC2 experience at least three of these challenges had to be put down somehow.







- Despite the enrolment registered especially in the 2<sup>nd</sup> edition, the commitment of learners in the connectivist activities was much too low this being the main reason of simplifying the 2<sup>nd</sup> edition compared to the first run.
- Moreover, the completion rate, classified as one of the most negative aspects of MOOCs, varying between 5% and 15% (Belanger and Thornton, 2013; Jordan, 2013), is also low. The use of C platforms (cMOOC) seem to have a small negative impact in the completion rate especially when it allows the use of more than one C platform (Fidalgo-Blanco et al., 2016).
- Heterogeneity in language skills (English being the common ground) seemed to be one of the biggest challenges for many of the Spanish-speakers (over 80% of the participants). In order to overcome this, written translations from English to Spanish was facilitated (e.g. subtitled videos) and some multilingual adaptations to the UniMOOC platform and interface translations were required.

#### Promotion

In the table below it can be seen the promotion strategy established for MOOC2 – innovation, creativity and idea creation. The promotion was a lot more aggressive in the second edition than in the first one due to a larger variety of promotional tools used and a better strategy pointing towards target groups as defined beforehand. There are especially two main aspects that worth being highlighted:

1. The use of new promotional tools: among them, social media seemed to significantly contribute to achieving better impact reaching a higher number of potential MOOC users. It might be considered social media boosted the views of the promotional video on YouTube and, maybe, the number of enrolments. If we consider that part of the persons who sow the promotional video on YouTube also enrolled in the pilot MOOC, about 46% of them also enrolled in the first edition, while over 70% of them ended up enrolled in the MOOC in the second edition. It seems to be the impact of the social media tool. Among the new promotional tools, the use of "research media" (e.g. Research Gate) or "professional media" (e.g. LinkedIn) gave the project more visibility, but it is not clear the effect on the promotion of the pilot MOOC.









2. Moreover, it seems that the Unimooc platform and its network contributed to the promotion of the pilot MOOC being a large amount of the enrolment coming from this community.

Tool	1 <sup>st</sup> edition	2 <sup>nd</sup> edition
BizMOOC website	<ul> <li>2 news items (16/10/2017 &amp; 02/11/2017)</li> </ul>	<ul> <li>News item (31/01/2018)</li> </ul>
Youtube	<ul> <li>Promotional video with 975 views (02/11/2017)</li> </ul>	<ul> <li>Promotional video with 1150 views (02/11/2017)</li> </ul>
OGPI website	<ul> <li>News items included in the Newsletter and sent to 250 students, policy-makers, higher education professionals (25/10/2017)</li> </ul>	
E-mailing	• To over 20.000 UniMOOC users (students) potentially interested in this course topic (15/11/2017)	<ul> <li>To over 20.000 UniMOOC users (students) potentially interested in this course topic (12/02/2018)</li> <li>To 2000 Universities and culture sector institutions from EU and Central Asia (targeted to academic society, learners, lecturers, educational policy makers interested in MOOCs) (03/02/2018)</li> </ul>
Research Gate		Updates; around 1000 Academic society, learners, lecturers, educational policy makers interested in MOOCs (03/02/2018)
LinkedIn		Article, read by around 22 users interested in MOOCs (04/02/2018)
Facebook		<ul> <li>Post in the European Students' Union Facebook page (15/02/2018)</li> <li>Followed by over 55K students, policy- makers, higher education professionals (over 1000 reads).</li> </ul>
Twitter		<ul> <li>Followers of European Students' Union twitter account</li> <li>Followed by over 7000 students, policy-makers, and higher education professionals.</li> <li>647 impressions (19/02/2018) and 453 impressions (13/03/2018)</li> </ul>

Table 2: Promoting strategies of MOOC2







#### Learning Outcomes and Measurement

Before launching the first edition of this MOOC, the learning outcomes were defined as follows:

- Present creativity as a human innate capacity;
- Enable the deployment of creative potential;
- Understand a range of different techniques to generate ideas;
- Develop strategies and techniques for effective problem solving;
- Enable participants to identify mistakes and learn from failure
- Allow participants to get to know approaches and criteria for evaluating and selecting ideas

Table 3 depicts the measurement tools used for each one of the modules as well as their learning outcomes. It is worth mentioning that in a cMOOC, the evaluation system is not the same as in an xMOOC, but the combination of the two methodologies was employed in this case.

Module	Learning outcomes	Measurement
1. Introduction to the course and creativity	<ul> <li>Get to know the course and its platform</li> <li>Present creativity as a human innate capacity</li> <li>Stimulate the deployment of creative potential</li> <li>Communicate/get to know other learners in the same group</li> </ul>	<ul> <li>Group activity: Unconventional Self-intro: Introduce yourself activity: "A photograph (a photo collage or video) that represents YOU. Discussion within the group.</li> <li>Assessment: module test</li> </ul>
2. Ideation techniques and different ways of thinking	<ul> <li>Get to know a range of different techniques to generate ideas.</li> <li>Learn the difference between convergent versus divergent thinking</li> <li>Be able to identify, use and discuss on ideation methods</li> </ul>	<ul> <li>Group activity: Use one ideation techniques and come up with creative ideas on one of the suggested topics. Discuss others' ideas.</li> <li>Assessment: module test</li> </ul>
3. Critical thinking and problem solving methods	<ul> <li>Get to know what is critical thinking and the main steps of the process</li> <li>Learn strategies and techniques for effective problem solving</li> <li>Identify the steps to solving a problem effectively</li> <li>Learn how to make the ideas visible, tangible and consequential</li> </ul>	<ul> <li>Group activity: study a specific common problem and draft a fishbone diagram and explanation on ways to solve it. Analyse, discuss and evaluate others' outputs using a Google drawing template.</li> <li>Assessment: module</li> </ul>









		test
4. Learning from failure and prototyping ideas	<ul> <li>Identify and accept failure</li> <li>Realise that you can actually learn from failure</li> <li>Prototyping ideas</li> <li>Get to know and use a concept map</li> </ul>	<ul> <li>Group activity: create a concept map for "personal brand creation" and share it. Sharing concepts map on how to create your personal brand. Discussion on others' work.</li> <li>Assessment: module test</li> </ul>
5. Intellectual Property, Open Licensing and Idea Evaluation	<ul> <li>Improve the skills to search, reuse, adapt, and compose new solutions from already developed by the others ideas</li> <li>Get to know approaches to, and criteria and principles for, evaluating and selecting idea</li> <li>Improve the skills for defining and understanding different criteria for evaluating ideas.</li> </ul>	<ul> <li>Group activity: search for and evaluate "interesting" CC resources related to how can you improve your eating habits, how stop smoking or how get more self-organised. A minimum of 2 samples per enrolee ad to be located and shared in groups. The best ideas were voted and awarded.</li> <li>Assessment: module test</li> </ul>
6. Final assessment and group activity	<ul> <li>To demonstrate the skills acquired in generating, presenting and evaluating innovative ideas</li> </ul>	<ul> <li>A final test (10 questions)</li> <li>A group activity: "Jury of Ideas": an innovative idea was presented per enrolee on a free topic and making use of the tools introduced in the course and afterwards discussed within the group.</li> </ul>

Table 3: Measuring the achievements of MOOC2

#### Enrolments

It is worth mentioning that despite the rather low rate of enrolments in both editions over 60% of them were active participants. During the first run, over 4% of the enrolees completed the course while in the second edition only 1.66% managed to complete it. Additionally, over 80% of the enrolees represented Spanish-speaking countries.

	Enrolments	Active participants	Participants that completed the course
1st edition	451	295	20
1st edition %/total	21.67%	22.13%	42.55%
2nd edition	1,630	1,038	27









2nd edition %/total	78.33%	77.87%	57.45%
TOTAL	2,081	1,333	47

Table 4: Enrolments, active participants and completion

#### Certificates

The certificates f completion obtained within this course counted for 47 enrolees, that is about 2.26% of the total number of participants in the two editions of this MOOC course.









### **Evaluation**

#### Description of evaluation and quality assurance process

After the design and content was finished, several parties evaluated the MOOC and rich feedback was gathered. The review process consisted of two phases (before and after course), on different dimensions and with internal and external elements as described below.

#### **Review design**

- External review by two external evaluators and internal review by two other MOOC teams: each design was reviewed by the two other MOOC production teams of the BizMOOC project based on materials produced by the MOOC team (design document and the planning sheet excel) and a review form developed by leaders of WP4 and WP5 (a closed checklist and open comments). This review was done on the following quality dimensions:
  - i. Fulfilling MOOC criteria
  - ii. Content & activities
  - iii. Applied IPR and licences
  - iv. Language and accessibility
  - v. Technical platform and support.

#### 2. Pre- and post external review by 17 experts

- Before course start, 17 selected experts received a one-page summary on the design of the MOOC and (if requested) access to the MOOC platform to review the course content. They then answered a survey with six open questions. Question asked were for example: Is this MOOC of interest for your employees / students? What elements are most attractive and what (new) elements should be adjusted (incorporated).
- After the course, 18 selected experts received took part in focus groups, were similar questions have been asked and thus providing us feedback, if the course could fulfill the expert's expectations.
- 3. **Pre-course and post-course survey with learners** (151 and 19, respectively) to evaluate background, motives and feedback before and after taking the MOOC. Two surveys have

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been designed (with joint elements for all MOOCs and specific additional questions to each MOOC) and implemented in the course. The pre-course survey contained 8 joint and 6 specific questions; the post-course survey contained 15 joint and 5 specific questions (see respective annexes below).

#### Review before launch of MOOC

#### External evaluators and two internal MOOC teams

The results of the reviews from one other MOOC teams and one expert were collected and combined by the quality assurance officer (see complete report as annex I). One team provided feedback before the first course edition started, the other team feedback was received before the second course edition.

Most feedback items were acknowledged but some improvements were not feasible to be implemented in the used MOOC platform. However, some elements were incorporated/improved in the first and second editions, such as:

- Teaser video was not available.
- Language parameter in links was not working
- Add more quizzes
- In each weekly session, the pedagogical team makes a synthesis of artefacts from the previous week's session
- Missing contents

Actions taken for the first course edition:

- Teaser video was published
- An introductory video and a detailed description were produced and published for each course module.
- Platform multilingual management problems were fixed
- Missing contents were incorporated
- Other platform bugs were fixed

Actions taken for the second course edition:









- Promotion started in advance
- An assessment test was added for each module
- Group management was changed to Google groups

Remarks on the production of original materials were not taken into account as the course is based on reusing open licensed contents.

#### Results of pre-course survey by external experts

17 answers were received to the pre-course experts survey. Experts were contacted per personal email and/or via phone. Most of the experts were from the Higher Education sector. 3 experts belong to the communication/image and 2 were IT experts. Results are summarized below, highlighting in bold the most common answers. The complete report is in annex II.

Question	Feedback
1. Most relevant MOOC topics	Critical thinking (7) Problem solving strategies (6) Ideation methods (4) Learning from failure (3) Evaluation and selection of ideas (3) Creativity as a Life skill (3) IP and open licensing (2) Prototomic ideas (2)
2. Benefits for peers/target group (short term and long term)	Prototyping ideas (2) The course shows new ways of thinking and how to improve creativity (5) Developing critical thinking in the long term (5) Improvement of the learning achievements (3) Useful for creating start-ups/ spin-offs (2) Not to be afraid of failure and learn from it (2) Being able to apply problem solving to daily life (2) Acquire different approaches to generate innovative ideas Improvement of key and transversal digital competences Improved ability to generate and present their ideas
3. Potential barriers for not enrolling or completing the course	Lack of time necessary (7) Language barrier (6) Not applicable/interesting to individual's current work (5) Not giving academic credits to students (1) Companies not recognize certificates (1) Difficulty (1) No barrier (1) Few promotion (1)
4. Is this reflective approach helpful	Yes (15) Don't know (2)
5. How appropriate is it to work through the course at your own pace	<b>It is the best way (11)</b> To some extent (2) Not appropriate (1)
<ol> <li>How do you think a Completion Certificate will motivate participants to finish the course?</li> </ol>	<b>Positively (14)</b> Not sure (2) Badges are also a good motivation (1)









#### Summary of pre-course participant's feedback

The pre-course survey contained 14 questions were distributed to all course learners. Only 151 participants (7%) completed the pre-course survey. The main findings of this survey are described below.

It was the first time participating in a MOOC for 66% of participants.

The main reasons for taking the course (multiple selection):

- "To improve my skills" 74,2 %
- "To learn new things" 72,8 %
- "To improve my career options, maybe even get a (new) job" 54,3 %
- "I have a general interest in the topic" 47,0 %

Most of the MOOC participants were "*Employed full time (35 or more hours per week)*" – 40%, while the majority have University level of study (Bachelor: 31,3% and Master's degree: 22,7 %).

The age distribution is normal within the central age groups (20-29, 30-39, 40-49, 50-59) while it reduces in extreme values in both sides (under 20 and over 60).

Gender distribution is slightly uneven (male participants: 55,7% while female: 44.3%).

More than 46% of the participants were from Latin America and 33% from Spain.

More than 90% of participants consider themselves as creative persons (yes 62.9%, to some extend 27,8%).

94% of participants enjoy problem solving (yes 72,5%, to some extend 21,5%).

No specific required action was identified from this feedback (full report in annex III).

#### Post-evaluation of the MOOC

#### Post-course evaluation by external experts and focus groups

Number of post-course expert evaluations: 17

#### 1. Most relevant MOOC topics









Most experts specified that the introduction and motivation module is a good starting point while critical thinking and problem solving are the most relevant topics. There are also several remarks on ideation methods and the introduction to IP.

#### 2. Is this MOOC beneficial?

This and other MOOCs are mostly seen as beneficial. The flexibility of this kind of courses makes.

In order to make it more beneficial:

- Ensure language translations to other local languages.
- o Add more graphical resources such as infographics
- Add a short summary at the end of each module.
- Add more specific contents / improve contents
- Add different levels of deepening in the complexity of the subject.

#### 3. Main identified barriers for enrolling this MOOC are:

- Language (although subtitles are much appreciated),
- Awareness of the existence of this kind of courses
- Lack of the (country/state) regulations and recognition.
- Access to technology or even internet connection

#### 4. Is this MOOC competitive to similar offerings?

In general, it is considered mostly competitive because is free of charge. This seems to be a major advantage. It is also seen as an extensive recollection of materials. Additionally, it is an initial training in the subject

However this MOOC is considered to be too general in scope so could not be competitive to more specific courses. A formal diploma could make it more competitive.

#### 5. Do you see possibilities to offer this MOOC (and other MOOCs) at a large scale ...?

Yes, but some adaptations may be required:

• Content adaptations depending on the specific target audience.









- More practical cases are required.
- Different entry levels may be also required.
- Content improvement (a more ad hoc approach with more specific information)
- Local language content translation should be available for some audience/countries.

# 6. Main issues to facilitate the wide-scale uptake of this MOOC (and other MOOCs) in business training:

- MOOC costs can be a great issue. Production/platform costs have to be reduced.
- This (or any) MOOC has to fit into the company-training plan.
- (Contradictory) to give the students some kind of formal recognition for completion.
   (Other experts say the opposite) companies don't need certificates just

See full report as annex V.

#### Summary of post-course participants survey

The number of post-course evaluations from learners is 18. Very few students sent this postcourse feedback, constituting an insufficient sample size in order to generate precise conclusions. Taking this into account, we can extract the following interpretations.

Course expectations, materials/activities quality rate, length of the course, degree of difficulty, understandability and time spent were mostly positively valued.

While just 65% students were interested in a continuation of the course, all of the received feedback would recommend this course or other course from BizMOOC and would participate in other BizMOOC courses.

Enrolees feedback shows they improved skills on the main course topics.

No specific required action was identified from this feedback but only to better promote this survey within the course (full report in annex IV).









#### **Lessons Learnt**

After running a second edition of the MOOC2, some lessons learnt could be highlighted as follows:

- **The promotion strategy** was not adequate on the first run, so it had to be improved for the second run obtaining better results by taking advantage of the two campaigns.
- For launching a cMOOC it is important to count with a course platform ready to incorporate cMOOC features. It was not necessary the case of Unimooc platform due to its vast experience mainly in xMOOC. Thus, a complete platform redesign might be almost certainly required. Grouping, forum, group activities and other community management features were not successfully adopted by participants in the first course edition.
- **Time restrictions** and timing of the target audience was a major barrier.
- The **completion rate** was lower than expected and this might have been at least due to:
  - Participants' interest only on some of the modules;
  - Participants lost interest after the initial module(s);
  - Language barriers faced by a large amount of `participants.
- It is crucial to count with a good **pool of experts** in the field in order to make a good selection of topics, videos and materials as a base of the course and design an adequate group activity pool for boosting enrolees to get the best out of it in the most efficient way.









### Recommendations

Based on the lessons learnt, at least some recommendations could be underpinned.

- Promotion and completion rate:
  - For a good response to the promotion of this type of MOOC, it is better to start its promotion at least 2 months or more in advance. It may be required to differentiate promotion strategies to individual learners and to companies.
  - Promote course enrolment but also promote course participation and completion by means of a periodic direct communication with participants. This might impact positively on the completion rate.
  - Badges and a certificate of participation can serve to motivate and increase completion rate. Moreover, a formal course recognition with ECTS or similar is required for a higher involvement of enrolees.
- **Platform**: It is essential to choose carefully the platform provider depending on the MOOC type and the features to be used on it.
- **Course characteristics**: Provide different levels of complexity of the same subject might make it more competitive as the heterogeneity of enrolees might be a challenge which could considerably reduce their interest and motivation. Different course paths might be the way to do this.



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### **Good practice**

- Linguistic tools: A bi-lingual offer might be a good option to overcome language barriers of potential and/or actual users. This is the case of many of the MOOC2 users which enrolled in a course offered through a platform with a large offer for Spanish-speakers. The possibility of translating not just the written text, but the full content of the modules (including the videos) might facilitate the continuity of these users in the MOOCs offered in foreign languages (i.e. English) and thus reduce if not eliminate the dropout rate due to language barriers.
- 2. Capacity to adapt and tailor the MOOC according to the needs of the users: The number of users, the number of active users, the subject, etc. should define the type of MOOC. A cMOOC is not viable for a large amount of users with very little active users given the tools used for shaping the groups and activities and the artificial intelligent achievements as of today. A rapid adaptation of the MOOCs to the needs of the users might increase the level of activity and reduce the dropout rate.

### Conclusion

The second pilot MOOC fulfilled the criteria established in the proposal regarding the participation items and resulted in many learnings regarding future editions of this kind of MOOC.

The topic is interesting for many potential users, but it should be better tailored and differentiate by complexity level as the heterogeneity of the enrolees clearly conducted to a high dropout rate.

The combination of higher education institutions and business representatives is always an advantage to consider when shaping courses adapted to the real needs of enrolees and the industry. Still, strengthening this kind of networks would facilitate even more tailoring courses with a continuous updated perspective.

The course evaluation was carried out through different methods: 151 enrolees, 17 experts, 2 MOOC developer teams and 2 external experts facilitated their perspectives. In this sense, the









evaluation conducted is generally positive, with the above mentioned major learning for future joint university-business endeavours in the business MOOC domain.

Only 47 enrolees completed the whole course, this meaning a completion rate (2.26%) lower that the expected one according to the literature (5-15%) that seem to be mainly due to the too general perspective of the course and the clear lacks of language skills of many of the enrolees. Learners underlined Critical thinking and Problem solving as the most interesting topics.

From this Pilot MOOC, many valuable findings and several recommendations were drawn accordingly. They have been reflected with lessons learnt and feedback from two other Pilot MOOCs in the business domain and implemented in the course of the BizMOOC project. They are fed into a separate document streamlining bottom-up recommendations around four strategic areas (see BiZMOOC result 4.3 Lessons Learnt, Recommendations and Good Practice).







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### Annexes

#### Annex I: Full Feedback external reviewers and two internal teams

#### First Evaluation Report Design of MOOC#2

#### Version 17-10-2017

- Based on first feedback by one team (not complete) and one external evaluator (complete)
- Waiting for the feedback of the other team and other external evaluator. Hence an updated • report will be distributed later
- Please try to improve the MOOC#2 as suggested and/or tackle the problems mentioned. Each section ends with a comment field for your reaction – please use these to state what you can (not) implement and why?

#### Resources made available for evaluation

- Design of MOOC according Excel template •
- Link to course Please note that the UniMOOC platform uses google single sign-on, so it will ask your authorisation to use your Google account for identification purposes. Please, contact me if you have any problem accessing.
- Marketing
  - Description on BizMOOC website: How to generate innovative ideas and how to make them work
  - Teaser video available soon

#### Review marketing material

- The teaser is not available on the date of this evaluation.
- Clicked on the hyperlink from the PDF (description MOOC) and got automatically to the Spanish • version of UniMOOC. If you are not registered on UniMOOC or saved a cookie with that setting the default language of the complete website should be English.









Darco; I checked this comment. At the end of pdf with description a link is given and indeed some parts are in Spanish.

- The MOOC pdf is a little bit too long. It would help if there were just a brief description of each module/week and not that much detail. Four pages are too much to read to build up interest.
- We haven't seen the teaser, but it is of utmost importance that the whole page is translated, either way it gives an impression of being a bit sloppy, also it is not that clear where to change the language which is at first Spanish (and most of our target audience is probably English-speaking > maybe change that?)

#### Your reaction as MOOC team related to marketing material

- We don't agree with the following statements because......
- We (partially) agree with statement/suggestion ..... and will improve that before launch of the MOOC
- We (partially) agree with statement/suggestion ..... and will improve during MOOC operation and/or as improvement after MOOC has ended (for next cycle after project lifetime)
- We (partially) agree with statement/suggestion ..... but cannot improve this because....

#### Check if online course meets the MOOC criteria

Two scores are seen as inadequate by external evaluator

- Educational content may include Video Audio Text Games (incl. simulation) Social Media Animation
- Study guide / syllabus includes instructions as to how you may learn from the presented materials and interactions

The rest of indicators on MOOC criteria are seen as largely achieved or fully achieved by external evaluator



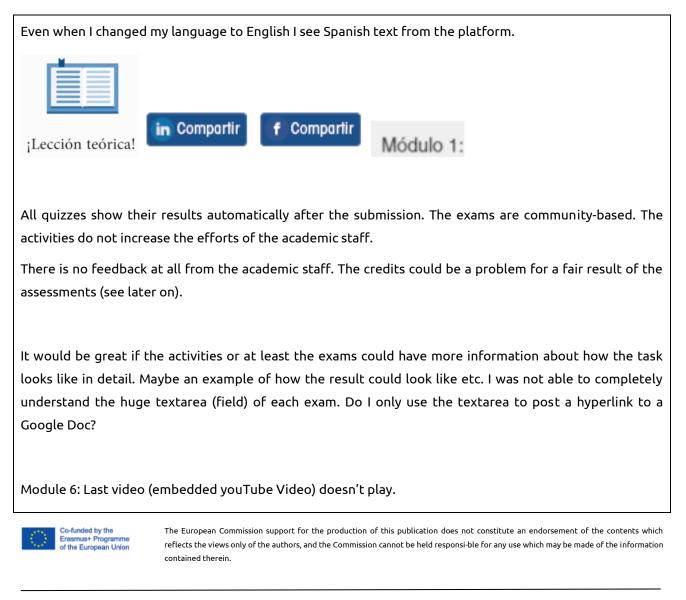




The <u>peer-to-peer review by another team</u> sees these two above as a problem as well. In addition they see the following scores as inadequate

- All people can enrol without limitations
- Offers possibilities for interaction, such as social media channels, forums, blogs or RSS readers
- Participants are provided with some feedback mechanism. Can be automatically generated (e.g., quizzes), only by peers (peer feedback) and/or general feedback from academic staff, etc.
- Always includes some kind of recognition like badges or a certificate of completion. A formal certificate is optional and most likely has to be paid for.

#### Comments / suggestions for improvements









- More activities
- More original material
- Better design of the tasks
- A bit more engaging and interesting tasks should be provided
- More insight on third party content should be provided
- More quizzes
- And more ways to communicate and collaborate with other users
- Also the final tasks should be redesigned to provided clearer and more complex problems to solve

#### Your reaction as MOOC team related to MOOC criteria in general

- We don't agree with the following statements because......
- We (partially) agree with statement/suggestion ..... and will improve that before launch of the MOOC
- We (partially) agree with statement/suggestion ..... and will improve during MOOC operation and/or as improvement after MOOC has ended (for next cycle after project lifetime)
- We (partially) agree with statement/suggestion ..... but cannot improve this because....

#### Check on quality of the design of MOOC

Many scores related to the design are seen as inadequate by both <u>external evaluator and (the incomplete)</u> <u>peer-MOOC team</u>

• For each target group the needs, challenges, prerequisites and prior knowledge are described.



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- The "pathways" (activities, tasks and routes) are designed in such a way that they can be performed at different levels of difficulty or complexity, to account for the broad spectrum of participants' knowledge and skills that is expected.
- The MOOC contain differing levels of difficulty, with different learning pathways
- The course contains sufficient interactivity (learner-to-content, learner-to-learner or learner-to-teacher) to encourage active engagement.
- A range of assets are used
- A range of examples is used in the text and any assets (e.g. videos). These should be diverse and not reinforce stereotypes.

The external evaluator in addition feels that the following criteria are not or only partially achieved

- The MOOC is realistic in its pacing for the participant, accommodating to the individuals personal rhythm
- The frequency of monitoring been planned (forum, group, post)
- A weekly announcements or massive mailing with orientations for the following week is planned
- In each weekly session, the pedagogical team makes a synthesis of artefacts from the previous week's session
- Some live-events (Hangout, Tweetchat) are scheduled
- Learning outcomes are assessed using a balance of formative and summative assessment appropriate to the level of certification.
- Assessment is explicit, fair, valid and reliable. Measures appropriate to the level of certification are in place to counter impersonation and plagiarism.
- Participants can earn a badge/badges for completion of learning activities

The peer-to-peer review by another team in addition sees the following scores as inadequate

- A clear statement of learning outcomes for both knowledge and skills is provided.
- There is reasoned coherence between learning outcomes, course content, teaching and learning strategy (including use of media), and assessment methods.









- The prior knowledge of each learning objective is described and related to characteristics of target groups
- Activities aid participants to construct their own learning and to communicate it to others.

#### Comments / suggestions for improvements

By peer-to-peer review by another team

We did not finish the table as the course provided for evaluation is clearly unfinished, and we think it wouldn't be fair to judge it on the half product that we received. But we do strongly recommend to put a larger variety of videos (at the beginning it's mostly TED videos), and more importantly activities for participants, as the course is not very encouraging to work together

Some general issues provided are

general issues:

- add at least one video per week that shows the face of a teaching team member
- add more quizzes.
- finish platform translation (we only reviewed the English version, maybe the Spanish one is much more complete?)
- fix texts > especially describe the tasks more clearly > we have been stuck in the activities
- fix tasks.
- complete missing material,
- provide more detailed description to the external videos (what is the aim of the exercise? What to
  do (not just "share a comment"? Why has this external source been selected, include
  references/credits? Maybe highlight special parts of the videos, summarize the most important
  content > this would significantly improve the course
- fix English language issues > a native speaker should correct at least the largest issues (especially the explanations of tasks have to be 100% clear, otherwise learner don't know what to do)
- when you open the course link, everything is in Spanish >> if we send the invitation to our networks, we need to have the English version first > can there be 2 links (1 for Spanish first, 1 for









#### English first?)

Some detailed suggestions

• Some strings on the platform (system text) are not translated, e.g. the list of countries in registration is Spanish only.

Module 1 - lesson 1 some spelling/grammar mistakes (in most o) Module 1 - lesson 2 is missing There course consists only of videos from external sources.

- There should be at least one video per week where the someone from the course team is visible (at least some sort of introduction and overview of the week's material) I would also suggest to add more quizzes.
- Module 1 lesson 6: Wording needs to be fixed. It took me quite some time to understand what might have been meant.

The actual test http://psychologia.co/creativity-test/ it is absolutely unclear what I have to do.

It seems as if the button "take test" brings me to a grammarly ad but not to the test.

Module 1 - exam: This needs to be done with the rest of your group. What group? It is very important to add a description how the groups will be formed, how the collaboration should be done, etc.

- Task 1 (optional) and task 2 (compulsory) are identical.
- When I take the exam, I'm out of the course. It is hard to get back.
- Module 2 lesson 1: the text needs to be formulated more elaborately/verbose. Currently, it looks like a todo-list for the teaching team Module 2 exam: exact same link as in module 1
- Module 3 lesson 7: description of the task is unclear.

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- Module 4 lesson 1: content missing
- Module 6: missing
- Diploma 7,99 we are not allowed to ask for money in this EU-funded course... is there a way to offer this for free?

#### By external evaluator

There are no "pathways" but the very open task-description allows the participant to fulfil the exams at their individual skill/knowledge level.

Within the peer-to-peer evaluation credits are given for each submitted task (by the participants). What happens when a group (of friends) enrols the course and they give each other the credits.

What happens when one participant got not enough credits by the end of the course because other participants did not rate his submission?

There is no reward for completing a module.

Most of the lessons only have videos and less text/images. So a better mix is required. Provide a summary underneath the YouTube (TED) videos.

The progress bars show how many lessons are completed but do not show what is missing. Although the progress bar says "8/8 lessons passed" it is still not light-green (which indicates that the module is completed). There should be something like "exam not passed" or "task not completed". Feedback from









the system itself is missing here.

### Your reaction as MOOC team related to design of MOOC

- We don't agree with the following statements because......
- We (partially) agree with statement/suggestion ..... and will improve that before launch of the MOOC
- We (partially) agree with statement/suggestion ..... and will improve during MOOC operation and/or as improvement after MOOC has ended (for next cycle after project lifetime)
- We (partially) agree with statement/suggestion ..... but cannot improve this because....

### EC / BizMOOC visibility

Three scores are seen as inadequate by external evaluator

- Visual Identity to BizMOOC in videos
- Activities are included which redirects the leaners to the MOOC BOOK and where they have to comment and feedback some content?
- Course (and resources like video) contains the standard EC disclaimer for EC-funded projects

The rest of indicators on EC / BizMOOC visibility are seen as largely achieved or fully achieved. peer-topeer review by another team sees almost all criteria as not achieved.

### Your reaction as MOOC team related to EC / BizMOOC visibility

• We don't agree with the following statements because......





# **żiz mooc**

- We (partially) agree with statement/suggestion ..... and will improve that before launch of the MOOC
- We (partially) agree with statement/suggestion ..... and will improve during MOOC operation and/or as improvement after MOOC has ended (for next cycle after project lifetime)
- We (partially) agree with statement/suggestion ..... but cannot improve this because....

### Accessibility

Regarding accessibility four scores are seen as inadequate by external evaluator

- Compliant to W3C accessibility
- Compliant to WCAG 2.0 according to EC
- Implemented the Guidelines for Accessible Information
- Participants are able to download, store, and use resources without an internet connection

The rest of indicators on accessibility are seen as largely achieved or fully achieved

#### Comments / suggestions for improvements

There are less HTML ALT attributes in a manual proof of the HTML code.

The official W3C Validator was not able to access and examine the complete source code. The ALT-Attribute is an alternative text and is useable by the screen reader (for example for blind people).

Although there is not very much text and images in this MOOC a print function or a "save to pdf" possibility would help to read offline. In combination with summaries of the YouTube videos a great enhancement.

#### Team: Again – we'd like to see the full product, but the subtitles in videos would be a must









### Your reaction as MOOC team related to accessibility

- We don't agree with the following statements because......
- We (partially) agree with statement/suggestion ..... and will improve that before launch of the MOOC
- We (partially) agree with statement/suggestion ..... and will improve during MOOC operation and/or as improvement after MOOC has ended (for next cycle after project lifetime)
- We (partially) agree with statement/suggestion ..... but cannot improve this because....





# **∃iz** mooc



### Annex II: Full pre-course expert survey

Name	Organisation	1. In your	2. What benefits	3. In your	4. This MOOC	5. In your	6. Upon
		opinion, which	do you see for	opinion,	invites	opinion, and	completion,
		topics of the	your peers/target	what are the	participants	bearing in	participants
		MOOC are the	group short term	potential	to reflect on	mind your	will receive a
		most relevant for	and long term?	barriers for	creativity and	peers/target	Completion
		уоиг		уоиг	generating	group, how	Certificate;
		peers/target		peers/target	innovative	appropriate is	how do you
		group?		group not	ideas; in your	it to have	think this will
				enrolling or	opinion, is this	participants	motivate
				completing	reflective	work through	them to finish
				the course?	approach	the course at	the course?
					helpful to	their own	
					уоиг	pace?	
					peers/target		
					group?		
					group:		





MN	Burgas Free	All six topics	Short term: To	Language	Yes, certainly	Very	That will
	University		gather knowledge	barrier, time		appropriate and	motivate them
			in creating ideas,	necessary to		beneficial	very much
			language	spend for			since it creates
			improvement,	successful			a competitive
			introduction to	completion			advantage for
			MOOC; Long term:				them at the
			Enhanced				labor market.
			capabilities for				
			entrepreneurship				
			and start-up				
			activity; critical				
			thinking and				
			creativity				
			development.				
SS	University prof. dr.	Critical thinking	more active	The main	Yes, definitely	The possibility	The
	Asen Zlatarov	and problem	participation in the	barrier could	it is very	participants to	completion
		solving	learning activities	be timeframe	helpful.	be able to work	certificate with
		techniques and	and proactive	- course end		with their own	mentioned
		methods,	approaches as a	is around		pace is a good	equivalent in
		evaluation and	short term effect.	Christmas.		solution	ECTS will be
		selection of ideas-	Improved ability to	Language		because the	very
		solutions as well	generate and	barrier also		students from	motivating for
		as IP and open	present their ideas	could be an		different	the University





		licensing	in more feasible	obstacle.		Universities,	students.
			way.			specialties and	
						so on have	
						different time	
						schedules.	
RS	PR Manager of RHM-	The main activity	Improvement of	The course is	By my opinion	Yes possibility	The
кэ	Burgas	of our	key and transversal	developed in	the approach is	for working	completion
	bulgas	organisation is	digital	English and	helpful.	with own pace	certificate
		closely connected	competences of	this will be an	netprut.		could be
		with creative	-	obstacle for		5	considered as
		industries. The	the participants will result in the	some of the		appropriate.	motivating
							factor.
			improvement of	people. The			Tactor.
		generation and	the professional performance.	other problem			
		presentation of	perrormance.	•			
		ideas, for		could be the			
		evaluation of		possibility			
		ideas and		the			
		selection of the		participants			
		optimal solutions		to be able to			
		for ideas'		follow the			
		implementation		course time			
		are really		schedule			









	important.	week	by		
		week.			







· · · · · · · · · · · · · · · · · · ·								
EN	Burgas F	гее	Intrapreneurship –	Through these	Since the	Since my	One of the	lt's important
	University		Make your	courses, students	courses do	students are	advantages of	to give the
			business great	will be able to	not give	engaged in	online courses	students some
			again, How to	understand the	academic	computer	is that	kind of
			generate	concept of	credits to	science, for	participants	recognition for
			innovative ideas	intrapreneurship,	students, as	them will be	have the	completion, as
			and how to make	develop theirs	well as the	useful	opportunity to	this will
			them work	perception of	employers	knowledge of	learn new	encourage
				business	difficult	a range of	material at	them to
				opportunities at	accept /	different	their own pace.	continue
				work and convert	recognize	techniques to	This makes	working
				problems or	these	generate	them desired	through
				challenges into	certificates,	ideas, as well	by the learners.	further
				opportunities,	the students	as to acquire		courses.
				enhance theirs	aren't	skills and		Certificates
				understanding and	motivated to	abilities for		are one of the
				ability for forming	enrolling or	elaborate of		ways in which
				coalitions around	completing a	diverse and		to encourage
				new business	course.	original ideas		learners after
				ideas, understand		with fluency		they complete
				how they may		and speed and		every course.
				deploy theirs		ability to use		
				creative potential,		logical and		
				how they may		evaluative		







apply strategies	thinking to	
and techniques for	critique and	
effective problem	ideas best	
solving, which are	suited for	
relevant	given	
knowledge and	situations.	
skills for future		
computer science		
specialists.		





# **∃iz** mooc



ҮН	UNWE	Critical thinking	There are a lot of	I think the	In my opinion	It will be	I think that the
	UNVE	5	benefits in short	main crux for	this reflective		
		and problem				relevant to	
		solving methods	and long term.	the	approach will		the most
		will be very useful	MOOC will	participants is	be very helpful	participants	motivating
		and helpful for	develop the	to find an	to my target	working	thing for the
		the target group	entrepreneurship	innovative	group of	through the	students and
		of students at an	thinking of the	idea, which	students at an	course at their	they will make
		Economic	participants and	they will	Economic	own pace,	everything
		University.	will improve their	present at	University,	because the	possible to do
			understandings for	the last	because of the	speed of work	the course to
			some technics of	module.	developing the	and	the end.
			generating a		creative	understanding	
			creative and		thinking of	is different,	
			innovative ideas.		them and	because the	
			They will learn		other useful	free time of the	
			what critical		things, as I	students is	
			thinking is and how		describe in the	variant.	
			to use it in difficult		previous		
			cases. Improving		answers.		
			the skills to search,				
			reuse, adapt, and				
			compose new				
			solutions from				
			already developed				







	1	1	1	1	1		· · · · · · · · · · · · · · · · · · ·
			by the others ideas				
			are some of the				
			advantages.				
SD	International IT	Critical thinking	In the short term,	The main	Modern	I think this is	It is difficult to
	University,	and problem	students will	thing that	conditions	acceptable, and	answer,
	Kazakhstan	solving methods	expand the range	comes to	require non-	perhaps even	someone will
		Learning from	of their analytical	mind – it is	standard	optimal, given	be motivated.
		failure and	capabilities, which	mediocrity	solutions.	their overall	In any case, the
		prototyping ideas	will help them		Journalists	workload.	certificate is
			solve learning		must follow		good.
			problems.		the rules and		
			And in the long		laws, but at		
			_				







			term it will be		hh		
					the same time		
			extremely		should avoid		
			necessary, since a		stamps and be		
			journalist must		creative.		
			necessarily have		Electronic or		
			the skills of critical		convergent		
			thinking.		journalism is		
					particularly		
					sensitive in this		
					matter.		
АК	Abay Myrzakhmetov	I think each	The benefits that	I do not see	Surely this	i think that	Surely it will
	Kokshetau University	module is usefull	they will receive	any barriers	MOOC is	creating new	motivate them
		for each student,	excellent	for the target	helpful for the	ideas will help	to finish the
		but the most	competences,	group which	target group	them in the	course.
		usefull is M5	skills in How to	do not give	because it will	future work.	
		Intellectual	generate	them to	help them to		
		Property, Open	innovative ideas	complete the	understand		
		Licensing and Idea	and how to make	course.	how they can		
		Evaluation.	them work. It will		generate new		
		Because it is	give us		ideas and		
		possibility to	opportunity to		projects.		
		show to the	prepare high				
		students what it is	quality specialists				
		Intellectual	for a labor market.				





Property, Open
Property,     Open       Licensing and Idea
Evaluation.







ED.			Mu seeees frame		I think it is	
FB	University of		My research focus	Not being I think it is very		Maybe. Having
	Melbourne	creating and		able to see an useful, and a	desirable and	it listed in their
		maintaining a	research	immediate good general	-	LinkedIn in
		culture of	organisations.	applicability introductory	better if	might also be
		creativity and	creating a culture	of these material that	deployed in	relevant.
		collaboration	that emphasises	concepts in can cater to	small groups so	
		within an	and facilitates the	their current different	there is an	
		organisation	creative behaviour	work. target groups.	element of	
			of individuals is		group	
			critical for research		accountability	
			organisations		to maintain	
			working at		engagement.	
			complex, ill-			
			defined, state-of-			
			the-art scientific			
			problems.			
			Unleashing the			
			creative behaviour			
			and providing the			
			tools to leverage			
			this process is, in			
			my view, one of			
			the ways of			
			actively creating a			





		I
culture of		
creativity and		
collaboration		
(something still		
poorly understood		
by many		
organisational		
leaders).		





# **∃iz** mooc



					1		ī
PC	Freelance IT	The most relevant	The main benefits I	The potential	Yes, this	It seems quite	I think a
	consultant	topics for my	see are: 1. Learn	barriers I see	approach	appropriate,	certificate will
		target group in	different	are: not	seems quite	how ever group	motivate
		this course are:	approaches to	having	convenient.	activities may	participants to
		idea generation	generate	interest on		require to have	finish the
		methods and	innovative ideas,	the topic and		same pace	course so the
		learning from	and 2. not to be	lack of free		among all	can have a
		failure.	afraid of failure	time to		participants.	proof of
			and learn from it.	complete the			participation.
				course			However I see
				modules.			that badges
							are also a good
							motivation to
							finish each
							course
							module.
Sukhov Mikhail	Kostanay State	Critical thinking,	The immediate	For some	The innovation	The students	To obtain the
Vasilievich	Pedagogical Institute	problem solving,	benefit is expected	could be a	and creativity	from different	certificate
		selection the best	to be the	language	are important	courses and	issued by EU
		idea and	improvement of	barrier and	in every	specialries have	institutions is
		prototiping	the learning	for the other	domain of	different	additional
			achievements of	probably the	activity so the	schedules and	motivation.
			the involved	toimeframe.	benefits of a	the possibility	
			students due to		course like this	they to work	





			their enhanced critical thinking and problem solving abilities.		are indisputable.	through the course at their own speed is very important.	
VD1	Kostanay state pedagogical institute	Module 3: Critical thinking and problem solving methods - because the target group has a restricted form of thinking.	short term benefits - formulating real goals and solving real life situation at their subject domain. long term - developing critical thinking and avoiding standardised approach.	low motivation to think outside the box	very helpful due to giving an opportunity for them to be heard	very convenient - gives a freedom to be phisically 'anywhere' but mentally - united.	undoubtedly! any document proving participation will be included in their portfolio!
VD2	Kostanay state pedagogical institute	The topic concerning identifying stakeholders, target groups and	This course is aimed at promoting students' thinking as a future teacher	The barrier is in the mentality or traditional way of	reflective approach is of the great importance as it	it is important to have an indivudual approach not only in terms of	Any certificate or document gained is important and it stimulates







		sponsors of	capable of making	thinking	demonstrates	the content,	the process of
		intrapreneurial	new ideas work.	5	the outcome	but also in	further
		projects,			of the course	terms of pace	development.
		students' start-				of mastering	
		ups				the skills.	
		dba				che skius.	
María Isabel Sáez	Graphic designer -	The most relevant	The main benefit	The potential	This reflective	lt is very	It is a stimulus
Martínez	Freelance	topics for me are:	in the short term is	barrier is the	approach is	important to	when
		ideation methods,	the improvement	time factor.	very useful	allow each	developing the
		critical thinking	in the creative		because it	person to	course but not
		and problem	process. In the		encourages us	develop the	a final goal in
		solving methods.	long term, the		to leave the	course at their	itself
			training in the		comfort zone,	own pace	
			different methods		look for	adapting it to	
			and tools acquired		creative	their personal	
			with the course		solutions and	circumstances,	
			facilitates the		properly	, environment	
			resolution of		structure ideas	One advantage	
			problems in any		with the aim of	is that the	
			area of our lives.		improving the	forum allows	
					processes	consulting the	
					within our	contribution of	
					work.		
					WULK.	each participant	
						at any time.	







Quique	Quique	Creativity as a Life skill	Enhancing creativity thinking and applying the innovation in the workplace	People thinking the creativity is not a relevant topic in their work or in their daily lives	This approach is really helpful to be brilliant designing new products or to face new challenges	It is appropriate due to each one can spend their own free time in course the MOOC	Although the really important is coursing the MOOC to adquire the valuable knowledge, receiving a completion certificate can be an incentive to finish the course
Silvia G. Ponzoda	Biblioteca Virtual Miguel de Cervantes Foundation	I have found very interesting the ideas about divergence thinking.	The course shows new ways of thinking and how to improve creativity and that's very useful indeed for an organization as the one I work, for	Probably, for some of them it would be the language.	Yes, It is very useful.	It is the best way because so we can do it at the best time for us.	Yes







			instance.				
Virjinia Ferrer	University of León	To get to know	To improve their	To not know	Yes, very much	This course is	A completion
		different	capacities, avoid	the existence	indeed.	appropriate to	certificate
		techniques to	failure when	of this		anyone who	always helps
		generate ideas	creating or	course; and		wants to sharp	participants to
		and how to	promoting new	lack of time		their skills on	engage in new
		evaluate them; to	ideas.	to enrol in		creating and	моос
		learn how to		new courses.		developing new	courses.
		conduct critical				ideas.	
		thinking and what					
		is the main					
		process; learn					
		about different					
		strategies and					
		techniques for an					
		effective problem					
		solving; learn how					
		to make ideas					
		visible, tangible					
		and					







consequential;	
how to identify	
failure ideas and	
learn from it; to	
use the concept	
map to prototype	
good ideas; and to	
improve the set of	
skills that will help	
to shape and	
promote	
pertinent ideas,	
such as how to	
search, reuse,	
adapt and	
compose new	
solutions.	







				I			
Denise Galvin	Freelance Higher	I don't have target	It seems that these	The platform	Yes	l can't give a	l am not sure,
	Education consultant	groups. Could be	courses could be	probably		definitive	depends on
		very helpful for	very useful for	needs more		answer. It	the validity of
		those wanting to	those thinking	work. What		probably would	the certificate
		become self	about start-ups,	is offered in		be better for	and how it
		employed.	spin-offs etc	English does		those taking	counts
				not come up		the courses and	towards a
				in Español or		those	degree,
				Catalan. I am		administering	technical
				sure if		courses if there	course etc
				everything on		were time limits	
				offer was in		imposed to	
				all languages		finish courses.	
				it would be			
				more			
				accessible for			
				those			
				interested in			
				Spain or Latin			
				America.			







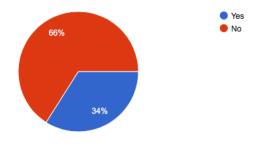


### Annex III: Full pre-course participants feedback

#### Complete questionnaire data: google sheet

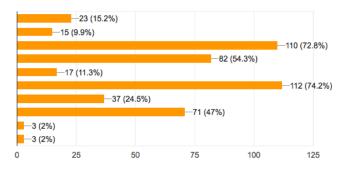
Is this the first time you take part in a free online course? 150 responses





#### What are your 3-4 main reasons for taking the course?

151 responses





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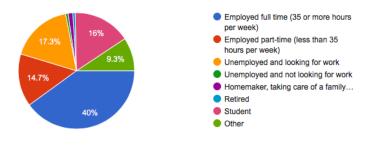


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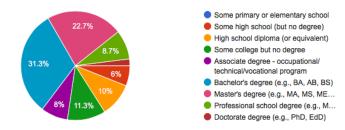


#### Which of the following best describes your current employment status? 150 responses



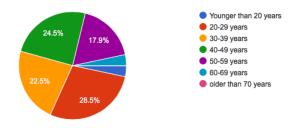
#### What is the highest level of study you have completed so far?

150 responses



#### How old are you?

151 responses





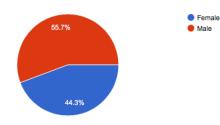






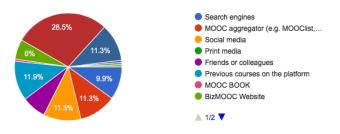
#### What is your gender?

149 responses



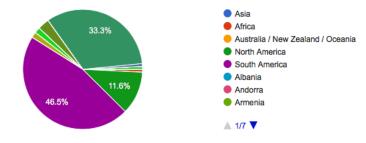
#### Where did you learn about the course?

151 responses



#### Which country do you live in?

129 responses





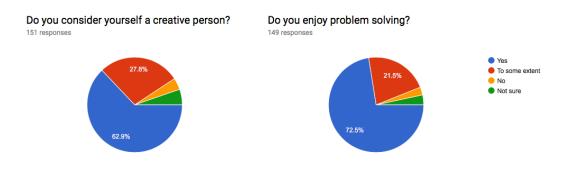
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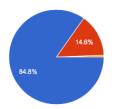
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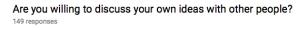


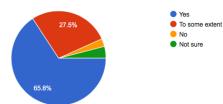




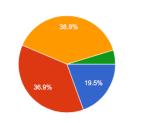
Do you like to experiment new activities? 151 responses







#### Are you afraid of failure? 149 responses



Yes
To some extent
No
Not sure





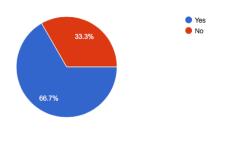




### Annex IV: Full post-course participants feedback

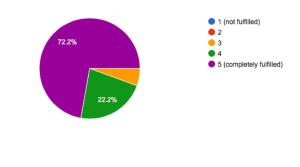
#### Complete questionnaire data: google sheet

Was this the first time you took part in a free online course? <sup>18 responses</sup>

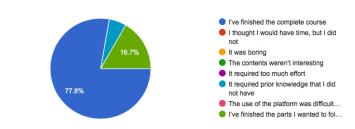


#### Were your expectations for the course fulfilled?

18 responses



#### Did you complete the course? 18 responses





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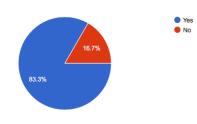
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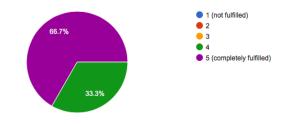


Did the opportunity to earn a course certificate and/or module badge encourage you to complete the course?

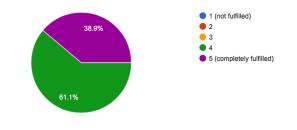
18 responses



How would you rate the quality of the course materials? 18 responses

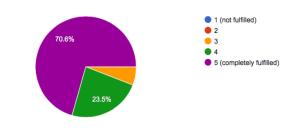


How would you rate the quality of the course activities? 18 responses



### How would you rate the length of the course?

17 responses



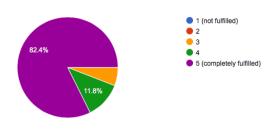




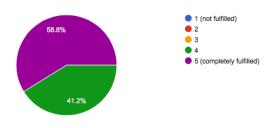




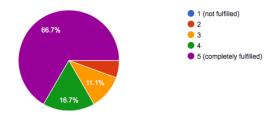
How would you rate the degree of difficulty of the course? 17 responses



#### How would you rate the understandability of the course? 17 responses



How much time did you spent on average on the course per week? 18 responses





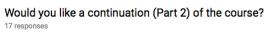


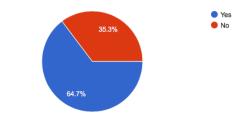




#### Would you recommend the course to others? <sup>17 responses</sup>







### Would you participate in another course from BizMOOC? 18 responses



Would you recommend courses from BizMOOC to others? 18 responses



### If you have any other comments, please feel free to add them here

1 response

Interesting

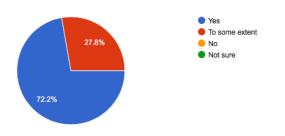




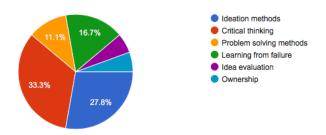




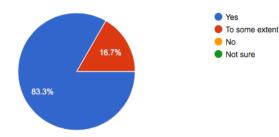
Do you consider the skills in idea generation obtained during the course have improved your creative capacities? <sup>18 responses</sup>



Which of the course main topics do you find more interesting? 18 responses



Do you feel more motivated to have your own ideas and make them work? 18 responses





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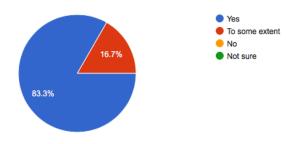


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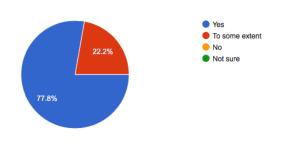


Do you consider that the course improves your problem solving skills? 18 responses



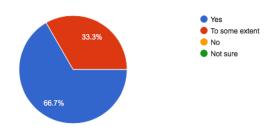
### Do you feel more confident to share and discuss your own ideas with other people?

18 responses



# After the course, do you think that you ability to learn in positive from failure experiences is improved?

18 responses





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# **żiz mooc**



### Annex V: Full post-course evaluation by experts and focus group

### **BFU FOCUS GROUP**

#### Details:

Method of collecting responses: The questions were distributed via e-mail and experts were asked to send their feedback as reply writing their answers on the questions.

Questions:

The questions are separated in 2 groups: mandatory questions and optional questions.

This document contains the responses provided by the experts from the focus group of Burgas Free University. The feedback provided by every expert is structured in separate section.

### Professor – UNIVERSITY ASEN ZLATAROV" – BURGAS

#### Questions 1 to 6 are mandatory:

#### 1. Which topics of the MOOC did you find most relevant for

o yourself?

Critical Thinking, problem solving, Prototyping, Intellectual property, Idea evaluation

#### o your peers/target group (your employees/colleagues/students..)?

Critical Thinking, Ideation, problem solving, Prototyping, Intellectual property

#### o (optional) Why were they relevant?

Engineering sciences

#### 2. Do you see the MOOC as beneficial for your peers/target group (short-term ; long-term)?

#### o If so, why? And what can be done to make the MOOC even more beneficial?

In order to be more beneficial the courses should be adapted in line with the concrete dimensions of the targets – language, cultural and educational context, specifics of the application domain.









#### o If not, why? What are the main challenges to overcome or is this impossible?

MOOC are beneficial for students as well as for the lecturers of our university too, but because the regulation at National and University level is missing they can be only complementary to the other training offers.

#### 3. What are the main barriers for your peers/target group for enrolling in this MOOC?

The main barrier is the lack of the regulations, and recognition.

# 4. Is this MOOC competitive to similar offerings to your peers/target group so far? I.e., compared to both in-house / outsourced training and courses in classroom setting or other online courses.

Lot of case studies and examples for real life applications, flexible time schedule,.

# 5. Do you see possibilities to offer this MOOC (and other MOOCs) at a large scale in both your organisation and in other organisations throughout Europe? (If so, give details....)

Yes, it is possible to offer this MOOC to our organisation but only as additional enhancement of some courses or courses' parts.

# 6. What are the main issues to facilitate the wide-scale uptake of this MOOC (and other MOOCs) in business training?

The course to be more easy discoverable and multilingual support to be assured.

#### **Questions 7-13 are optional questions:**

7. How would you attempt to improve this MOOC? What would be the key areas of focus?

Extending with more examples related to the domain (in my key Engineering sciences)

8. Have you already seen a MOOC with similar content? If so, what differences did you observe?

The most courses do not provide information about intellectual property and open licensing

9. What do you perceive to be the main issues affecting uptake of training and development in business?





# <mark>ġiz</mark> mooc



Problem solving, critical thinking, creativity and innovation are important everywhere

10. How can technology be used to improve business education? (invite detail)

Delivery of HQ education on global basis

11. What message do you have for policymakers in the European area?

They should thing about recognition and accreditation and about assuring support for MOOC initiatives

### University Professor – Kokshetau University Abay Myrzakhmetov, Kazakhstan

#### Questions 1 to 6 are mandatory:

#### 1. Which topics of the MOOC did you find most relevant for

- o yourself?
- o your peers/target group (your employees/colleagues/students..)?+
- o (optional) Why were they relevant?

In my opinion the modules 3, 4, 5 are the most important parts of the course because if you want to write a start up or a business plan and you don't know these main points it will be difficult to write a really successful project plan.

#### 2. Do you see the MOOC as beneficial for your peers/target group (short-term ; long-term)?

o If so, why? And what can be done to make the MOOC even more beneficial?

#### o If not, why? What are the main challenges to overcome or is this impossible?

Currently this MOOC is a really beneficial for students and also could be interesting for the teaching staff of our university too, but it could be better if the MOOC was available in Russian language.

#### 3. What are the main barriers for your peers/target group for enrolling in this MOOC?

The main and the only barrier is the language barrier.



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# 4. Is this MOOC competitive to similar offerings to your peers/target group so far? I.e., compared to both inhouse / outsourced training and courses in classroom setting or other online courses.

I suppose yes, because the MOOC has the main points the target group needs. And it will be good if it will be possible for a student to ask the lecturer some questions online .

# 5. Do you see possibilities to offer this MOOC (and other MOOCs) at a large scale in both your organisation and in other organisations throughout Europe? (If so, give details....)

Yes, it is possible to offer this MOOC to our organisation.

# 6. What are the main issues to facilitate the wide-scale uptake of this MOOC (and other MOOCs) in business training?

The information could be available on the official web-site of the university, instagram, VK, Facebook of the university. The MOOC is very interesting and useful But for our students the main difficult is a language barrier.

### Assoc. Professor – BFU, Bulgaria

# 1. Which topics of the MOOC you found most relevant for yourself your peers/target group (your employees/colleagues/students..)?

Ideation methods, Critical thinking and problem solving methods

## 2. Do you see the MOOC as beneficial for your peers/target group (short-term ; long-term)?

Through the course, students will be able to understand how they may deploy theirs creative potential, how they may apply strategies and techniques for effective problem solving, which are relevant knowledge and skills for future computer science specialists.

#### If so, why? And what can be done to make the MOOC even more beneficial?

Since my students are engaged in computer science, for them will be useful knowledge of a range of different techniques to generate ideas, as well as to acquire skills and abilities for elaborate of diverse and original ideas with fluency and speed and ability to use logical and evaluative thinking to critique and ideas best suited for given situations.

#### 3. What are the main barriers for your peers/target group for enrolling in this MOOC?

Since the course do not give academic credits to students, as well as the employers difficult accept / recognize these certificates, the students aren't motivated to enrolling or completing the course.









4. Is this MOOC competitive to similar offerings to your peers/target group so far? I.e., compared to both in house / outsourced training and courses in classroom setting or other online courses.

# 5. Do you see possibilities to offer this MOOC (and other MOOCs) at a large scale in both your organization and in otherorganizations throughout Europe?

It is possible since the online course gives opportunity for participent to learn new material at their own pace, which makes them desired by the learners.

# 6. What are the main issues to facilitate the wide-scale uptake of this MOOC (and other MOOCs) in business training

It's important to give the students some kind of recognition for completion, as this will encourage them to continue working through further courses. Certificates are one of the ways in which to encourage learners after they complete every course.

## Professor – RHM – Burgas, Bulgaria

#### Questions 1 to 6 are mandatory:

#### 1. Which topics of the MOOC did you find most relevant for

#### o yourself?

Learning strategies and techniques for effective problem solving

Stimulate the deployment of creative potential

#### o your peers/target group (your employees/colleagues/students..)?

Ideation, thinking out of the box, critical thinking, problem solving

o (optional) Why were they relevant?

Art and culture domains

#### 2. Do you see the MOOC as beneficial for your peers/target group (short-term ; long-term)?

o If so, why? And what can be done to make the MOOC even more beneficial?

#### o If not, why? What are the main challenges to overcome or is this impossible?

Yes, it is beneficial at short as long as in long-term. People can learn or follow specific instruction to help them complete certain task or take on new knowledge without the need to spend too much time away from their work place or the need to learn everything at once.

Make it easier to find more topics, ready MOOCS, easier enrolling and offer the MOOCs in more languages.

Main challenge is to get wider user-base and more MOOCs being offered to users. For that it is important to popularize the usefulness of MOOCs.

#### 3. What are the main barriers for your peers/target group for enrolling in this MOOC?

Language.









4. Is this MOOC competitive to similar offerings to your peers/target group so far? I.e., compared to both inhouse / outsourced training and courses in classroom setting or other online courses.

Yes it is competitive, but needs further popularization

5. Do you see possibilities to offer this MOOC (and other MOOCs) at a large scale in both your organisation and in other organisations throughout Europe? (If so, give details....)

Yes, as long as it offer MOOCs about relevant topics to me and my organization, and as long as it offers them in understandable language for them.

# 6. What are the main issues to facilitate the wide-scale uptake of this MOOC (and other MOOCs) in business training?

The main issue is to find experts, who can create MOOCs at cost that are economically acceptable for the organization and in a language that the employees can use.

#### **Questions 7-13 are optional questions:**

7. How would you attempt to improve this MOOC? What would be the key areas of focus?

Adaptation to the culture sector target group

8. Have you already seen a MOOC with similar content? If so, what differences did you observe?

*I have seen similar courses. This is well structured and organized especially second edition.* 

9. What do you perceive to be the main issues affecting uptake of training and development in business?

Creativity is important for every profession

10. How can technology be used to improve business education? (invite detail)

Provision of flexible and open education

11. What message do you have for policymakers in the European area?

Regulation for accreditation and recognition of skills and competences



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## **UA Focus Group a**

- IS. Freelance Graphical designer.
- PC. IT Consultant. Non disclosed IT consultancy firm.
- EM. IT analyst and programmer. Lucentia Labs.

Moderator: Francisco Gallego (UA)

## Methodology

- Questions were distributed to focus group participants in advance.
- 30 minutes Adobe Connect on-line session discussing each point on the list that time allows.
- Answers from each expert are compiled question by question.

## Focus group minutes (11/05/2018 16:30-17:30)

1. Which topics of the MOOC did you find most relevant for yourself / your peers/target group (your employees/colleagues/students..)?

IS: I really liked the MOOC. Applied mainly to my work, the graphic design, I liked the first part of motivation (as it is sometimes necessary to put yourself in the skin of a child to have innovative ideas) and the methodology to follow so that the final result is the optimum . It helps a lot to structure thoughts, to follow a process, so that we do not get lost. This MOOC highlights the important aspects to make decisions, solve problems and get a final job according to the needs of the client is easier.

EM: The general feelings about this MOOC have been quite positive. My work is more technical and I do not approach this type of creativity in my work. I appreciate what the course provides because it gives you a way of thinking that helps you face problems you face on a day-to-day basis. The most relevant modules are:

- Introduction and motivation: gives the general concepts of the course and serves to land a little on this subject
- Ideation methods because it provides a list of methods to systematically address a project

PC: My work is also more technical. I have been very interested in the issue of intellectual property because many times we use third-party software and develop software that we do not know how to distribute. Having an objective point of view about all this helps a lot.









# 2. Do you see the MOOC as beneficial for your peers/target group (short-term ; long-term)?

#### • If so, why? And what can be done to make the MOOC even more beneficial?

#### • If not, why? What are the main challenges to overcome or is this impossible?

IS: I do see short and long term benefits for both me and a target audience (eg students in a design course). The flexibility of the course seems important to me because we are all involved with our lives, work and so on. The possibility of accessing the course at any time, participate in the forum and see what others comment regardless of the time we each take we think a good idea.

EM: On the one hand I think it is beneficial, in the idea of what I said before, that in particular it is not a topic in which we (technicians) have specific training in the subject. On the other hand, for the same reason you may find too much difficulty so some type of prior training may be necessary.

PC: I believe that the most positive point of the MOOCs is the ease of use and the accessibility of the content. The flexibility of the course in the sense that it is difficult to take time to attend classes with a fixed schedule, MOOCs provide ease to attend this type of course. There are also problems, such as language, because sometimes the courses are not in a language accessible by students

#### • And what can be done to make the MOOC even more beneficial?

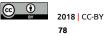
IS: I agree that it is necessary to have a prior knowledge of some terms. In this type of course, videos use a terminology that may not be clear to students. I would love that at the end of each module a summary scheme was shown, as a kind of infographic that gave the key to what has been seen in each lesson. There is a lot of information and a short summary would be good at the end of each module. Language is another subject that I consider important. There may be some difficulty in following the videos in English. In some cases there were translations in others activating the subtitles made things easier.

EM: I would emphasize that it is more schematic, even before taking the course to have a guide of what is going to be seen. To have more structured content and to differentiate in levels of deepening in the subject.

PC: The language issue is an important barrier. Being such an extensive course, the student has to adapt to the course, which could be solved.

#### 3. What are the main barriers for your peers/target group for enrolling in this MOOC?









IS:

- Language. Although there are some translations.
- This platform, as a suggestion, could improve navigation between courses, modules and lessons.

EM: The language can be a barrier but it is appreciated that they are subtitled to soften the problem. Knowing the existence of these courses, advertising could be improved. You may not be aware of their existence and be very useful to you.

PC: language and I would add the lack of a legal framework for accreditation.

4. Is this MOOC competitive to similar offerings to your peers/target group so far? I.e., compared to both inhouse / outsourced training and courses in classroom setting or other online courses.

IS: I do not have a clear opinion about this issue at all. A great effort has been made to collect information and draw a line of the creative process from motivation to how ideas arise and how to be innovative. I have seen information on other sites about these issues but not a structured compilation like this MOOC.

EM: Comparing it with similar offers of company training is better because not all companies have something similar. As for price is unbeatable. I think it has a clear structure and order in the content.

PC: It is free and the knowledge that is taught is interesting so it is competitive.

5. Do you see possibilities to offer this MOOC (and other MOOCs) at a large scale in both your organisation and in other organisations throughout Europe? (If so, give details....)

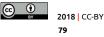
IS: Yes, I think it's possible to offer it on a large scale. It should be more adapted to the target audience and its level of education. It can help me in my creative process, but it also can be applied to other areas of life.

EM: It would be necessary to adapt with different levels of complexity.

PC: In the case of my organization, saving the language, it could be applied with some adaptation of the content.

# 6. What are the main issues to facilitate the wide-scale uptake of this MOOC (and other MOOCs) in business training





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IS: As we have said, it would be necessary to adapt the contents. (In this case) there are contents of different origins. It depends on how the company participates in the creation of these MOOCs, it can be done in it adapting the content to their needs.

EM: This (or any) MOOC has to fit into the work that the company does and its training plan. If these requirements are not met, I find it difficult to adopt them on a large scale. For the rest, it is affordable that this type of training can be adopted.

PC: I agree with my colleagues. Thinking about my company, I believe that translation is important.

7. How would you attempt to improve this MOOC? What would be the key areas of focus?

IS: Create more own content. The use of other existing content is fine, but the initial or final summaries had to be improved with a more elaborate outline.

EM: I agree with the need of own content applicable to your field. I would add real life examples.

PC: Customize the course to a specific audiences.







## UA Focus Group b

- SG Communication expert, Digital Library
- DB MOOC student
- ST MOOC student
- CM MOOC student
- BE MOOC student

Moderator: Francisco Gallego (UA)

### Methodology

- Questions were distributed to focus group participants in advance.
- 30 minutes Adobe Connect on-line session discussing each point on the list that time allows.
- Answers from each expert are compiled question by question.

### Focus group minutes (14/05/2018 9:30-10:30):

1. Which topics of the MOOC did you find most relevant for yourself / your peers/target group (your employees/colleagues/students..)?

SG: In general, all course topics are interesting, but the most relevant for me is critical thinking in order to get innovative thinking. The basics on intellectual property are also quite useful.

DB: Critical thinking and problem solving are the most interesting to me.

ST: I agree with my colleague student Debora,

CM: on intellectual property and group activities were quite interesting.

BE: Critical thinking and learning from failure.

# 2. Do you see the MOOC as beneficial for your peers/target group (short-term ; long-term)?

- If so, why? And what can be done to make the MOOC even more beneficial?
- If not, why? What are the main challenges to overcome or is this impossible?

And what can be done to make the MOOC even more beneficial?

SG: Yes, MOOCs are quite beneficial as they allow you to learn with great flexibility, and in this

case it is free of charge and provides knowledge that you may not have.

DB: In general they are beneficial because it is easy to access this wide variety of contents.









ST: I think they are beneficial as long as they have enough quality, are free of charge and you have the option to get a diploma. And of course MOOCs' flexibility helps a lot.

CM: I agree with my colleagues.

BE: I also agree but I want to add that ease of use and quality of contents are the most important points here.

## 3. What are the main barriers for your peers/target group for enrolling in this MOOC?

SG: The main barrier in my company is the language. Subtitles were quite useful, but it is better to hear your own language. For some people this implies not to even consider enrolling the course.

DB: In my case, as Italian, following a course in English is the opposite to a barrier, in my case it make me more interested me in the course. On the other hand, content complexity may require a previous background in some points.

ST: I would like to remark the promotion on the course, some other fellow students were not aware of the course.

CM: I agree that promotion may be better. Accessibility can also be improved.

BE: Not issuing a diploma is the main barrier I see.

4. Is this MOOC competitive to similar offerings to your peers/target group so far? I.e., compared to both inhouse / outsourced training and courses in classroom setting or other online courses.

SG: I general, I think it is competitive although some things may be improved.

DB: (non audible – lost connection)

ST: The option to have a diploma could make it even more interesting.

CM: I agree but being free of charge.

BE: Yes it is competitive.

5. Do you see possibilities to offer this MOOC (and other MOOCs) at a large scale in both your organisation and in other organisations throughout Europe? (If so, give details....)

SG: Yes, completely possible but maybe having a more ad hoc approach with more specific information.





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DB: Yes, I think so although some contents may require to be adapted to the company specifics.

ST: I think having an English version it is enough for large companies all over Europe. Being an open platform I see that it can be beneficial to some companies.

CM: I agree with my colleagues.

BE: I would remark that content and methodology fit to company needs in terms of training.

- 6. What are the main issues to facilitate the wide-scale uptake of this MOOC (and other MOOCs) in business training
- SG: For small companies, MOOC costs can be a great issue.

DB: I agree with SG, cost is an important issue.

- ST: I would add that a personalized support may be required in companies.
- CM: Language can be an issue.
- BE: Production course and language are a great issue.



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## UA Focus Group c

- GP University Internationalisation Expert
- MV Entrepreneur in Guatemala and Former Development Officer
- VF Senior International Project Manager, Spanish University

Moderator: Francisco Gallego (UA)

## Methodology

- Questions were distributed to focus group participants in advance.
- 30 minutes Adobe Connect on-line session discussing each point on the list that time allows.
- Answers from each expert are compiled question by question.

## Focus group minutes (14/05/2018 16:30-17:30):

1. Which topics of the MOOC did you find most relevant for yourself / your peers/target group (your employees/colleagues/students..)?

GP : Individually, I think this kind of courses end up being quite fruitful. Learning of failure and basic intellectual property are the most interesting aspects for me. For employees, I think the most relevant topics critical thinking and problem solving.

MV: From my point of view, critical thinking and problem solving are the most important topics in the course as we can use them in our day to day lives. For my colleagues, I personally found interesting all the topics, but ideation methods and learning from failure are quite important for any entrepreneur.

VF: Personally, I found interesting the given IP basics as it is something new to me, as well as the specific tools and methods on how to create new ideas and improve your creativity. For other target group, such as employees/colleagues I will also remark two topics: critical thinking and problem solving that could be applied in different knowledge areas.

# 2. Do you see the MOOC as beneficial for your peers/target group (short-term ; long-term)?

- If so, why? And what can be done to make the MOOC even more beneficial?
- If not, why? What are the main challenges to overcome or is this impossible?

GP: Yes. I would say that this courses providing us an update on any aspects related to learning to come up with new ideas and entrepreneurship is always beneficial. The flexibility to access







this kind of courses is a great advantage compared to traditional learning (face to face). However there are some points that could be improved.

MV: I think it is beneficial, e.g. in Guatemala there is a huge amount of people that want to be entrepreneurs, create an start-up or new business with great ideas but don't know even how to start. Therefore I think it is quite beneficial. For example, It is important to know how to make a prototype because many people start without even knowing how to present a new product/service idea.

VF: I fully agree with the others, MOOCs are beneficial. There is a wide offer of courses that let you deepen in known topics, start learning new ones, strength knowledge in your area of expertise, etc. I see many advantages in MOOCs.

 $\circ$  And what can be done to make the MOOC even more beneficial?

GP: As many people can access this courses, it is not easy to dig into concrete aspects. Perhaps MOOCs are maybe more appropriate for introductory topics, most of the time as a basis to later on follow a more limited(personalized) learning approach. We could face language issues as we may have people from different countries not know the main international languages (e.g. English). It could be required to include more specific topics, as (company) employees may require more specific knowledge rather that students.

MV: In my environment, language is the most important. Besides, offline access to the course could be quite beneficial

VF: More promotion, in order to reach more participants. To have a more formal certification, such as a University diploma. Provide more contents, more readings, even more videos, more real life examples.

## 3. What are the main barriers for your peers/target group for enrolling in this MOOC?

GP: Depending on the participants' background, they may face some technical problems if they don't know this kind of courses. Language is also a barrier. Diplomas may not be so important for companies rather to practically demonstrate any acquired knowledge.

MV: Language for sure, English is huge barrier in my country. Internet connection is not such a problem here.









VF: I agree on the language barrier and I would add to be aware of the course itself, if the course is not in any of the main platforms like EdX or Coursera, you may get fewer opportunities to get the link to the course.

4. Is this MOOC competitive to similar offerings to your peers/target group so far? I.e., compared to both inhouse / outsourced training and courses in classroom setting or other online courses.

GP: In general, MOOCs are quite competitive as issuing a diploma is not so important. If we have into account that this course is free of charge, it is certainly competitive. In terms of quality, as an introductory course, this MOOC is competitive but for a more specific knowledge other courses could be better.

MV: It could be competitive as an initial stage for a start-up or back to basics of a company in order to get employee capacitation. Specially taking into account that it is free of charge.

VF: I think contents have to be improved in order that this MOOC can compete with other options.

5. Do you see possibilities to offer this MOOC (and other MOOCs) at a large scale in both your organisation and in other organisations throughout Europe? (If so, give details....)

GP: It is absolutely required to improve this MOOC contents for this. This improvement has to take into account that there are not only students, but employees, so more practical cases are required.

MV: I agree.

VF: I also agree.

6. What are the main issues to facilitate the wide-scale uptake of this MOOC (and other MOOCs) in business training

GP: Several issues. When talking of training in companies the objective is to obtain a competitive advantage. If you share this advantage with others, you will lose it or you can't take. Companies may use SPOOCs or other rather that MOOCs.

MV: As a learning support activity it is right but, It may require more practical activities and to use the course to build your own practical exercise.

VF: I would say that a MOOC is not a tool for training your employees rather than an personal initiative of each individual. So I don't see MOOCs as the main tool for training.



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## **ITV Focus Group**

### EXPERT 1 FROM THE SLOVAK REPUBLIC

#### 1. Which topics of the MOOC did you find most relevant for

o yourself?

Ideas creation

o your peers/target group (your employees/colleagues/students..)?

All of them

2. Do you see the MOOC as beneficial for your peers/target group (short-term ; long-term)?

o If so, why? And what can be done to make the MOOC even more beneficial?

o If not, why? What are the main challenges to overcome or is this impossible?

Yes, long term.

3. What are the main barriers for your peers/target group for enrolling in this MOOC?

English language only.

4. Is this MOOC competitive to similar offerings to your peers/target group so far? I.e., compared to both in-house / outsourced training and courses in classroom setting or other online courses.

Yes it is.

5. Do you see possibilities to offer this MOOC (and other MOOCs) at a large scale in both your organisation and in other organisations throughout Europe? (If so, give details....)

Yes

6. What are the main issues to facilitate the wide-scale uptake of this MOOC (and other MOOCs) in business training?

Business usually have their own open education platforms





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#### **EXPERT 2 FROM THE SLOVAK REPUBLIC**

#### 1. Which topics of the MOOC did you find most relevant for

o yourself?

Module 2 and 5.

o your peers/target group (your employees/colleagues/students..)?

Module 2, 5 and 4.

2. Do you see the MOOC as beneficial for your peers/target group (short-term ; long-term)?

o If so, why? And what can be done to make the MOOC even more beneficial?

o If not, why? What are the main challenges to overcome or is this impossible?

Yes, language (if more languages were available).

3. What are the main barriers for your peers/target group for enrolling in this MOOC?

Language.

4. Is this MOOC competitive to similar offerings to your peers/target group so far? I.e., compared to both in-house / outsourced training and courses in classroom setting or other online courses.

Yes.

5. Do you see possibilities to offer this MOOC (and other MOOCs) at a large scale in both your organisation and in other organisations throughout Europe? (If so, give details....)

Yes, employments agencies.

6. What are the main issues to facilitate the wide-scale uptake of this MOOC (and other MOOCs) in business training?

Language barrier.

#### 8. Have you already seen a MOOC with similar content? If so, what differences did you observe?

Language barrier (in my region)



