

Erasmus+

KA2: Cooperation for innovation and the exchange of good

practices - Knowledge Alliances

Application Form

Call: EAC/A02/2019

Deadline: 26.02.2020 (17:00 CET, Brussels time)

Knowledge Alliances

DETAILED PROJECT DESCRIPTION

(To be attached to the eForm)

EN Version 2019

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PART 0. Project summary and involvement in previous relevant projects

0.1. Please provide a short summary of the main features and outputs of your project (Recommended limit 2000 characters) - Please bear in mind that your short summary may be published on EC or/and EACEA websites and dissemination tools

Systematic Innovation Methodologies (SIM) are the basis of important cross-sectional skills not only in engineering and technical professions, but increasingly also for the middle management. Such skills have a significant influence on the cultural-technical development potential of companies. TRIZ¹ as an important such methodology that was developed in Eastern Europe over the past 50 years has meanwhile been used successfully in large companies around the world (Samsung, Posco, Siemens, Schaeffler and others). Its anchoring in academic teaching and research as well as its application in SME in the EU area is still weak compared to Asian industrialized nations as South Korea, China, Japan.

This Knowledge Alliance aims to

- 1. **build up** a strong networking structure of already successful teaching and training SIM in HEI at different EU locations and in different forms of HEI (**focus A**),
- 2. **set up and develop** a consulting and participation structure for this training infrastructure by companies from within the EU that are aware of the potential of SIM for their strategic development (**focus B**),
- 3. **organise interoperation** between these two networks, to get practical input for the development of corresponding curricula on the one hand and on the other hand, to offer challenging operational tasks for training and further development of the students,
- 4. **include experience** in inter-company training of selected Eastern European partners, which are particularly strongly acting in the Asian region,
- 5. further expand these networks with additional partners, and
- 6. **support other HEI's** in setting up appropriate training and further education offers.

The **overall focus of the project** is on strengthening the innovative power of EU companies by establishing and expanding corresponding structures of training and further education in close and sustainable cooperation with entrepreneurial structures and inter-industrial organisations as e.g. the Chambers of Commerce and Industry.

(2018 characters)

1

0.2. Involvement in previous relevant projects

If your proposal is based on the results of one or more previous projects/networks, please provide precise references to this/these project(s)/network(s) in the table below.

Please add tables as necessary.

Reference number	
Project / network dates (year started and completed)	Programme or initiative
Title of the project / network	
Coordinating organisation	
Website	http://
Password / login if necessary for website	
Please summarise the project/network outco	omes and describe (a) how the new proposal seeks to build on them

Please summarise the project/network outcomes and describe (a) how the new proposal seeks to build on them and, (b) how ownership / copyright issues are to be dealt with (limit 500 characters)

PART I. Project relevance

I.1. Why has the consortium decided to undertake this project?

I.1.1 Please outline the purpose behind your project, clearly analysing the specific needs or problems/challenges, which the project intends to address. (Recommended limit 3000 characters)

The imparting of knowledge and skills in the field of SIM has a growing importance as a cross-sectional qualification, not only in engineering and computer science studies, in order to develop the skill for systematic analysis of complex contradictional situations in everyday professional life and to develop innovative solutions. The systematic dissemination of such methodologies already plays an important role in training in Asia (China, South Korea, Japan), for example in the framework of the MEOTM program² of nationwide coordinated training of engineers in these methodologies in China. Such activities are coordinated worldwide by the international TRIZ organization MA TRIZ³ and in Europe by ETRIA⁴.

The preparation of the application has shown that European industrial companies do still insufficiently recognise the strategic importance of skills in that area, in particular for engineering and technical staff and in the middle management. Since such "investments in education" are equally difficult to represent in return-on-investment accounts, considerable efforts are required to make structural progress here. The need for corresponding engagements is more recognised at the level of comprehensive industrial organization structures (such as the Chambers of Commerce and Industry – CCI) – see the LoI of the CCI Heilbronn – rather than at the level of individual companies. At the corporate level, the need for action is also recognised more in large companies than in SMEs.

The proposed project aims to take the networking of these teaching and research activities at different European locations as well as its recognition and support by industrial companies to a new level.

(2001 characters)

I.1.2 Please explain how the project proposal fits into the objectives of the participating organisations and European policies in the fields of education and training. (Recommended limit 3000 characters)

The project strongly relates to the aims

- stimulate entrepreneurship and entrepreneurial skills of higher education teaching staff and company staff;
- facilitate the exchange, flow and co-creation of knowledge

formulated in the Programme Guide (p. 133), and acts towards "developing entrepreneurial mind-set and skills" in the three dimensions listed in the Programme Guide.

(527 characters)			

I.1.3 Please explain how the expected results, outputs and outcomes will meet the identified needs. (Recommended limit 1500 characters)

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4 http://etria.eu/portal/

^{3 &}lt;a href="https://matriz.org">https://matriz.org

I.2. Analysis of the subject area (current state of the art) and innovative character

Please explain how the needs analysis has been carried out. Please indicate what the project is offering that is new and different. Please also indicate what the main innovative elements of the method(s), result(s), approach(es), etc. are. (Recommended limit 3000 characters)

- Survey Sustainable Education in Inventive Problem Solving with TRIZ and Knowledge-Based Innovation at Universities. Proceedings of the 8th International TRIZ Future Conference, TFC 2018, Strasbourg, France.
 9 authors (including full partners Livotov and Cavallucci) explain the situation of academic curricula in the area under consideration.
- Survey TRIZ already 35 years in the Czech Republic. Proceedings of the 8th International TRIZ Future Conference, TFC 2015, Strasbourg, France.
 - 3 authors (including full partner Bušov) explain TRIZ teaching needs and experience at several technical universities in the Czech Republic since 1996 (Brno, Prague, Liberec, Pilsen, Ostrava, Zilina, Kosice).
- Talks with experts at the international conferences TRIZ Developer Summit (June 2019, Minsk), TRIZ-Fest (September 2019, Heilbronn), TRIZ Future (October 2019, Marrakesh).
- "TRIZ ... must be capable of supporting innovation in all the new and emerging technologies and methodologies of the 21st century: AI, big data, design thinking, sustainability, IoT, new approaches to education, and so forth". (Valeri Souchkov in his Report on the TRIZFest 2019)

I.3. Aims and objectives

I.3.1 Please define the specific aims and objectives of the project and how these will address the problems and challenges identified in sections I.1 and I.2. Also indicate how the project will contribute to achieve the objectives of the Knowledge Alliances action. (Recommended limit 3000 characters)

The **aims of the project** formulated in the Summary require efforts in two basic directions.

Focus A. A first focus of the project is the establishment of a reliable structural and processual organization of the network of the participating HEI (full and additional partners) on a conceptual, content and organizational level.

Focus B. A second focus of the project is on raising the awareness of more EU companies of the potential of SIM for their strategic development, particularly those in the manufacturing sector, to win them to join the network of companies as additional partners, and to set up a strong cooperation with the HEI network in focus A.

The main objectives of the project are

- (a) exchange, joint development and further development of relevant teaching materials as Open Educational Resources,
- (b) development and expansion of online-based training structures based on existing case collections in the form of online courses and in transregional platforms,
- (c) close integration of student training with practical challenges in this area by establishing appropriate stable contacts with industrial companies and
- (d) establishment and expansion of academically anchored further education structures, through which this innovation potential can also be effective in the SME area.
- 1. Take the stock of courses already offered at the participating academic institutions to describe and publicize existing specializations in greater detail, as well as match industry needs to identify gaps in the curricula.
- 2. Mutual support in the development and further profiling of corresponding offers among the consortium partners and support of other partners in this direction.
- 3. Exchange of students in Master's and Postgraduate study programs between the consortium partners with the involvement of other partner institutions in order to make the specializations in different locations effective for integrated training.
- 1.3.2 Please explain the contribution of higher education institutions to the project and how they will benefit from the project in the short and long term. (Recommended limit 1500 characters)

The consortium (coordinator and full partners) was selected from the point of view of representing various forms of academic education (classical university – Leipzig, technical universities – Strasbourg and Brno, colleges – Offenburg, dual college – ??) to represent the existing range of academic training structures and to recover synergies resulting from the experiences of working with different students' target groups of the respective education.
I.3.3 Please explain the contribution of enterprises to the project and how they will benefit from the project in the short and long term. Please refer to the nature/field of their economic activity. (Recommended limit 1500 characters)
We included two types of business partners – a big industrial company with intra company organized training of engineers in the targeted skills and a consulting company that organizes inter company consultancy and trainings in order to cover the broadest possible range of industrial applications of these methodologies and to focus on the most important areas of application both in the practical application of such methodologies and in company training. An additional role in this context play experts from partner countries, see point 7, through which the experience of the international TRIZ association MA TRIZ will flow into the project.
I.4. European added value Please describe the benefits of, and need for, European cooperation. Please also describe why the results cannot be achieved through cooperation at national, regional or local level. (Recommended limit 3000 characters)

PART II. Quality of the project design and implementation

II.1. Methodology

Please explain the strategy that will be adopted by the consortium to address the needs identified; also describe the methodology proposed for implementing the proposed Work Packages/activities and for achieving the expected objectives (including major milestones and contributors, how the different Work Packages and produced outputs will be inter-connected/articulated, measurable indicators, etc.). (Recommended limit 3000 characters)

The project is designed in such a way that the full partners form the core of a network that is to be expanded in the course of the project by <i>additional partners</i> from both the HEI area and the area of industrial companies. These partners are both involved in the operational work and invited to the project meetings and milestones. Participation in these measures is to be secured by these additional partners by own resources, which means that the transition from project financing to self-financing of network activities starts already during the project period. This is an essential moment to ensure the sustainability of the network and its work beyond the end of the project.
II.2. Overall project management
Please explain how the consortium will be coordinated and indicate the overall project management arrangements. You should also describe the division of tasks between the partners and the allocation of resources for each activity. (Recommended limit 5000 characters)
The project organization is based on the SCRUM methodology as an agile process model. The work is divided into 6 sprints of about 6 months each. Sprint Plannig, Sprint Review and Sprint Retrospective will take place at multi-day project meetings P0 to P6 according to the SCRUM methodology.
Project meetings with an odd number have the character of a review, where the operational status of the work is analysed in more detail and deliverables in advanced stage are presented and discussed. Project meetings with an even number are planned as milestones at which essential deliverables are finally confirmed.
II.3. Quality assurance, evaluation and monitoring
Please define the specific quality measures to be put in place, as well as indicators foreseen to verify the outcomes of the project. Explain which mechanisms you intend to use to ensure the monitoring and evaluation of the project, its deliverables, results and outcomes. (Recommended limit 3000 characters)
II.4. Recognition and validation
If appropriate to the type of project activities, please explain the approaches that are or will be used for the validation and recognition of learning outcomes, in line with the European transparency and recognition tools and principles.

(Recommended limit 1500 characters)

II.5. Budget and cost-effectiveness
Please describe the measures adopted to ensure that the proposed results and objectives will be achieved in the most cost-effective way and in time. Explain the principles of budget allocation between the partners. Indicate the arrangements adopted for financial management. (Recommended limit 3000 characters)

PART III. Quality of the partnership, the team and the cooperation arrangements

III.1. Knowledge Alliances: composition of the consortium

Please mark the type of organisations which make up the consortium (please make sure that associated partners are also indicated). Please choose the right category for each partner and ensure that the composition fulfils the eligibility criteria. Please use the same numbering both in the eForm and in the Excel budget table. IMPORTANT: If your consortium includes any affiliated entities, the total requested grant of the partner and its Affiliated Entity should be reported in the section B.4 (Grant request) of the eForm

NB: Please note that ticking one of the 3 columns under the key category 'Enterprises' means that, in line with the Erasmus+ Programme Guide, the organisation(s) concerned is/are undertakings actually engaged in an economic activity and contributing as such to the proposed project.

	Organisa ease use the sam in the eForm ar budget ta	ne numbering and in the Excel	Higher Educatio n Institutio n (HEI)		Enterprises		Other organisation types									
Nr	Partner Acronym	APP (applicant) or PAR (partner) or AE (Affiliated Entity) or AssPAR (associated partner)	HEI (tertiary level - ECHE holder if in a Program me Country)	Small and medium sized enterprise	Large enterprise	Social enterprise	EU-wide network	Social partner or other representa -tive of working life ⁵	Research Institute / Centre	Non- govern- mental organisa- tion/asso- ciation	School/ Institute/ Educatio- nal centre - Vocational training	School/ Institute/ Educatio- nal centre – Adult education	National, regional, local public body	Accredita- tion, certifica- tion or qualifica- tion body	Counsel- ling body	Internatio- nal organisa- tion under public law
1	ULEI	APP	HEI													
2	INSASB	PAR	HEI													
3	HSOFF	PAR	HEI													
4	BUT	PAR	HEI													
5	UTC	PAR	HEI													
6	LUT	PAR	HEI													
7	HTBLA	PAR									X					

Organisations (please use the same numbering both in the eForm and in the Exceeding budget table)			Higher Educatio n Institutio n (HEI)	Enterprises Other of				ther organ	isation typ	oes						
Nr	Partner Acronym	APP (applicant) or PAR (partner) or AE (Affiliated Entity) or AssPAR (associated partner)	HEI (tertiary level - ECHE holder if in a Program me Country)	Small and medium sized enterprise	Large enterprise	Social enterprise	EU-wide network	Social partner or other representa -tive of working life	Research Institute / Centre	Non- govern- mental organisa- tion/asso- ciation	School/ Institute/ Educatio- nal centre — Vocational training	School/ Institute/ Educatio- nal centre – Adult education	National, regional, local public body	Accreditation, certification or qualification body	Counsel- ling body	Internatio- nal organisa- tion under public law
8	Schaeffl	PAR			X											
9	Arxia	PAR		X												
10	TP	PAR		X												
11	TIM	PAR		X												
12	NPK	PAR		X												
13	BM-	PAR		X												
	TRIZ															

Does your consortium include any affiliated entities (please choose YES or NO)? If yes, please fill the information in the Annex of this document.

In accordance with Art. 122 of the Financial Regulation. The following can be considered affiliated entities:

- legal entities having a legal or capital link with beneficiaries; this link is neither limited to the action nor established for the sole purpose of its implementation.
- several entities which satisfy the criteria for being awarded a grant and together form one entity which may be treated as the sole beneficiary, including where the entity is specifically established for the purpose of implementing the action.

The affiliated entities must comply with the eligibility and non-exclusion criteria, and where applicable also with the selection criteria applying to applicants.

	YES
\boxtimes	NO

III.2. Rationale for setting-up the partnership

Please explain why the partners are best suited to participate in this European project. Describe skills, expertise and competences within the partnership directly relating to the planned project activities. (Recommended limit 3000 characters)

The project proposal has three priorities

- (A) Establishment of networking structures among the HEI partners.
- (B) Establishment of networking structures among the industrial company partners,
- (C) Crosslinking the networking structures (A) and (B).
- (A) Partners are HEIs of different orientations and with different experiences in the field of SIM teaching.

Leipzig University as applicant plays a special role – it plans to strengthen its curricular structures and yet little experience in teaching in this area. Moreover a *Competence Center SIM*⁶ is being set up in order to establish appropriate training structures in the region "Mitteldeutschland", not only at Leipzig University.

In addition to the coordination and systematization of corresponding teaching experiences of the HEI partners, these experiences are basic for the *practical* development of corresponding regional structures and should be developed as a *best practice example* for other HEI locations (additional partners), which also plan to develop corresponding teaching capacities.

(B) In the project preparation the perception of the importance of corresponding skills for the strategic development of companies showed a clear east-west divide in Europe. The East European HEI partners in Brno and Cluj have significantly better relationships with companies with a corresponding focus. We also see potential in the legacy of the GDR inventor schools as a research focus at Leipzig University. With Schaeffler AG, a large European industrial partner joined the project, who has already recognized the importance of SIM skills for its strategic development.

The industrial structures in that area consist of companies that use SIM skills, as well as consulting and training companies that offer consultancy services and teach SIM skills. The partners from Belarus and Russia are representatives of this second group. In core Europe, these services are partly provided by the HEI partners (Brno, Strasbourg, Offenburg, Cluj) and partly by SMEs in the consulting area. In the latter area, greater efforts are required to convince such companies as additional partners, at least in the course of the project.

(C) More precise forms of such crosslinking can only be developed in the course of the project implementation. With our agile approach based on SCRUM methodology, the necessary organizational requirements using proven principles are set up.

(2604 characters)

III.3. Description of the consortium members

This section III.3 must be completed for each organisation participating in the project (applicant, partners and affiliated entities). Please use the same numbering as in the application e Form. Please note that the applicant should be P1.

III.3.1. Partner number – P1 – (Leipzig University)

Organisation name	Country
Leipzig University	Germany

III.3.1.1. Aims and activities of the organisation

Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)

II 3.1.2. Role of the organisation in the project
II.3.1.2. Role of the organisation in the project Please describe the role of the organisation in the project and how the organisation will actually contribute to the
roject success. (Recommended limit 1500 characters)

III.3.1.3. Operational/Technical capacity: Skills and expertise of key staff involved in the project

Please fill in the table below for each key staff member and add lines as necessary.

<u>NB</u>: Please note that the first key staff to be listed under **P1** should be the Project coordinator (<u>also</u> called 'Project manager' and 'Contact person' in section A.2 of the eForm). The coordinator will have the responsibility to ensure that the project is implemented in accordance with the selected application. Its coordination will include the following duties:

- be the single point of contact of the Agency for all communications on the project;
- coordinate the work of the consortium in line with the work plan;
- monitor that the action is implemented in accordance with the EU grant agreement.

Therefore, this person must have all the necessary professional experience and competencies to carry out the coordination of the project. Please provide detailed information for this person.

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Thomas Neumuth	
Hans-Gert Gräbe	
Sabine Lautenschläger	
Ken Pierre Kleemann	

III.3.2. Partner number – P2 – (HS Offenburg)

Organisation name	Country
HS Offenburg	Germany

III.3.2.1. Aims and activities of the organisation
Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)
III.3.2.2. Role of the organisation in the project
Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

III.3.2.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Pavel Livotov	

III.3.3. Partner number – P3 – (INSA Strasbourg)

Organisation name	Country
INSA Strasbourg	France

III.3.3.1. Aims and activities of the organisation
Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)
III.3.3.2. Role of the organisation in the project
Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

III.3.3.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Denis Cavallucci	

III.3.4. Partner number – P4 – (BUT Brno)

Organisation name	Country
BUT Brno	Czech Republic

III.3.4.1. Aims and activities of the organisation
Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)
III.3.4.2. Role of the organisation in the project
Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

III.3.4.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Bohuslav Busov	

III.3.5. Partner number – P5 – (UTC Cluj-Napoca)

Organisation name	Country
UTC Cluj-Napoca	Romania

III.3.5.1. Aims and activities of the organisation
Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)
III.3.5.2. Role of the organisation in the project
Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

III.3.5.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Stelian Brad	

III.3.6. Partner number – P6 – (LUT Lappenranta)

Organisation name	Country
LUT Lappenranta	Finland

III.3.6.1. Aims and activities of the organisation
Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)
III.3.6.2. Role of the organisation in the project
Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

III.3.6.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Leonid Chechurin	

III.3.7. Partner number – P7 – (HTBLA Wolfsberg)

Organisation name	Country
HTBLA Wolfsberg	Austria

III.3.7.1. Aims and activities of the organisation
Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)
III.3.7.2. Role of the organisation in the project
Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

III.3.7.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Jürgen Jantschgi	

III.3.8. Partner number – P8 – (Schaeffler AG)

Organisation name	Country
Schaeffler AG	Germany

III.3.8.1. Aims and activities of the organisation
Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)
III.3.8.2. Role of the organisation in the project
Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

III.3.8.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Armin Lau	
Thomas Fuhrmann	

III.3.9. Partner number – P9 – (Arxia SRL)

Organisation name	Country
Arxia SRL	Romania

III.3.9.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Daniel Homorodean	

III.3.10. Partner number – P10 – (Tehnoprod Plast SRL)

Organisation name	Country
Tehnoprod Plast SRL	Romania

III.3.10.1. Aims and activities of the organisation
Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)
III.3.10.2. Role of the organisation in the project
Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

III.3.10.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Lucian Moraru	

III.3.11. Partner number – P11 – (Target Invention Minsk)

Organisation name	Country
Target Invention Minsk	Belarus

III.3.11.1. Aims and activities of the organisation

Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)

Target Innovation has a rich teaching experience and practical consulting of SME all over the world (in particular Samsung/Korea, China).

III.3.11.2. Role of the organisation in the project

Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

The partner will be involved with quality assurance of both practical teaching courses and teaching material.		

III.3.11.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff	Summary of relevant skills and experience, including where relevant a list of recent	
members	publications related to the domain of the project.	
Nikolay Shpakovsky	He is a certified TRIZ master for many years and the main representative of the Minsk OTSM-TRIZ school.	

III.3.12. Partner number – P12 – (NPK Consult Moscow)

Organisation name	Country
NPK Consult Moscow	Russia

III.3.12.1. Aims and activities of the organisation

Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)

NPK Consult Moscow is a big consulting company with rich experie	ience in applying TRIZ methodology within SM	Έ
innovation challenges.		

III.3.12.2. Role of the organisation in the project

Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

The partner will be involved sharing experience in organizing intra and cross SME trainings in systematic innovation
methodologies to build up a common stock of approaches of such training concepts and materials.

III.3.12.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Elena Redkolis	

III.3.13. Partner number – P13 – (BM TRIZ Chelyabinsk)

Organisation name	Country
BM TRIZ Chelyabinsk	Russia

III.3.13.1. Aims and activities of the organisation

Please provide a short presentation of the organisation (key activities, affiliations, size of the organisation, etc.) relating to the area covered by the project. Please provide also a link to the website of the organisation, if available. (Recommended limit 1500 characters)

BM TRIZ Chelyabinsk is one of the leading consulting firms in the area of business and management using contradiction oriented systematic innovation methodologies. In Sept. 2019 Anton Kozhemyako was appointed as Director of Developing TRIZ Applications for Business and Management by MA TRIZ, the International TRIZ Association.

III.3.13.2. Role of the organisation in the project

Please describe the role of the organisation in the project and how the organisation will actually contribute to the project success. (Recommended limit 1500 characters)

The partner will be involved to support the collection of recent business cases and methodological development in the area of business and management to continuously improve the teaching concepts and materials within our Knowledge Alliance.

III.3.13.3. Operational/Technical capacity: skills and expertise of key staff involved in the project

Names of the staff members	Summary of relevant skills and experience, including where relevant a list of recent publications related to the domain of the project.
Anton Kozhemyako	In Sept. 2019 he was appointed as Director of Developing TRIZ Applications for Business and Management by MA TRIZ, the International TRIZ Association.

III.4. Cooperation arrangements across the partnership
Please describe arrangements and responsibilities for decision-making, conflict resolution, reporting, monitoring communication and other relevant issues. (Recommended limit 2500 characters)
III.5. Partner Country participation (where applicable)
This section should be completed, if the application involves organisations from Erasmus+ Partner Countries. Please explain how Partner Country organisation(s) participating in the project are giving an essential added value the project. (Recommended limit 1500 characters)
NB: please note that the involvement of a participating organisation from a Partner Country must bring an essential added value to the project. As a result, organisations from Partner Countries must bring specific skills, experiences of expertise that organisations from Programme Countries cannot bring and that prove to be essential for the achievement of the project's objectives and/or to ensure a significantly higher quality of the project outputs.

PART IV. Impact, dissemination, exploitation, and sustainability

IV.1. Target groups

IV.1.1 Please explain which target groups (e.g. participating organisations as well as other stakeholders such as higher education institutions, companies/SMEs/businesses, students, professionals, the wider public) will benefit from the project results/outcomes. Indicate how the project outputs will be used by these target groups and will lead to expected outcomes and change. (Recommended limit 3000 characters)

nucomes una change. (Recommenaea uma 5000 characters)
 Actors for the exemplary establishment of a corresponding training structure in Mitteldeutschland (Leipzig region). HEI who want to develop and implement similar programs to build up appropriate training capacities in these cross cutting skills. Industrial companies that want to build up an appropriate base of skilled people in their own company. Consulting companies, in whose profile consulting, application and training of SIM are core competencies.
V.1.2 Please describe how the target groups will be reached and involved during the project lifetime and how the project will be beneficial for these target groups at local, regional, national and or European level. What is the change your project will make? (Recommended limit 3000 characters)
V.1.3 Please describe how the target groups will be reached after the project is finished . (Recommended limit 3000 characters).

IV.2. Sustainability and impact IV.2.1 How will the activities and the partnership be sustained beyond the project lifetime? Please explain which results of your project will be maintained after EU funding, and how you intend to maintain them, including the necessary financial and human resources. (Recommended limit 3000 characters) IV.2.2 Please indicate what is the expected short term and long term impact on the target groups (including participating institutions and stakeholders); what is the desired impact of the project at local, regional, national, European and/or international level? What activities do you envisage to ensure that the expected and desired impact is achieved? (Recommended limit 3000 characters)

to/	.2.3 Please specify whether/how existing undertakings, schemes, projects, platforms, ventures etc. will be linked (integrated into the project. Also demonstrate that the project outputs and results will be transferable and accessible a broader audience. (Recommended limit 3000 characters)

advocacy and pro-active ensure that the produced	public relations activities. In	this context, indicate the main essible to end users and proper	project visibility, including project project website features that will ly promoted. Also explain your
Please highlight the main or systems that your proj		es) for stakeholders (individual	ls, organisations, etc) sectors
Short term results	Target groups/potential	Quantitative indicators	Qualitative indicators
	beneficiaries		
Long term outcomes	Target groups/potential beneficiaries	Quantitative indicators	Qualitative indicators
How will the disseminate groups? How will the exafter? How will the result pages 312-317)	xploitation activities be structi lts be mainstreamed and multi		th within the project's lifetime and ogramme Guide - sections 1 & 2

IV.4. Open access to the educational resources

Please describe how the materials, documents and media produced will be made available to the wider public through new technologies. Please explain also if you consider that this part is not applicable to your project. (Recommended limit 3000 characters)

In this direction the project follows the principles of Open Culture and in particular presents the experience gathered
on a public platform for subsequent use. We build on the experience and structures of the Leipzig WUMM Project ⁸ ,
in which a corresponding open infrastructure has been built around a github organizational account9 since the
beginning of 2019. In this context, the multilingual potential of RDF-based technologies for the presentation of
methodological concepts has already been prototypically demonstrated. This approach of making relevant materials
available under the Apache 2.0 License is to be pursued and expanded further in the project.

PART V. Specific arrangements regarding learning mobility (if applicable)

Knowledge Alliances may organise learning mobility activities of students, researchers and staff in so far as they support/complement the main activities of the Alliance and bring added value in the realisation of the project's objectives. Kick-off and project meetings are not considered as learning mobility activities. Mobility days for which travel and subsistence unit costs are charged to the project, cannot be charged as working days for implementation support to the main activities. Mobility activities / Learning mobility do not constitute the main activities of a Knowledge Alliance; extending and scaling-up these activities would need to be supported via the Key Action 1 of this Programme or other funding instruments.

T 7 1		. 1	1	- 1	1	
V 1	/	4 d	de	d	va	me

Alliance and bring added	d value in the rea	lisation of the pro	ject's objectives. (Re	ecommended limit 3	000 characters

V.2. Implementation of the learning mobility

Please describe the selection of participants, the quality measures set up in the sending and receiving organisations for monitoring the mobility activity, how the project intends to recognise and validate the learning outcomes of the participants (ECTS-DS ...), and follow up of the mobility activities. Please refer to the information provided in Section C.1 of the eForm. (Recommended limit 3000 characters)

^{8 &}lt;a href="http://www.leipzig-netz.de/index.php/WUMM">http://www.leipzig-netz.de/index.php/WUMM

⁹ https://github.com/wumm-project

NB: If learning mobility activities are planned, they should be embedded in the project activities. Please also note that the budget for learning mobility can not be used to finance costs for travels & subsistence of staff that are not directly related to the learning mobility activities (e.g. attendance costs to events, costs linked to partnership meetings, etc). Only learning mobility costs can be put in the sheet 'Learning mobility' of the budget annex.
PART VI. Additional project information (if applicable)
This section allows you to provide any additional project specific information, which is not covered in other parts of the application form. Please refrain from any repetition of previous statements and earlier mentioned aspects. (Recommended limit 1500 characters).
In line with the call requirements, higher education institutions (HEIs) established in a Programme Country must hold a valid Erasmus Charter for Higher Education (ECHE). Should the charter code <u>not</u> display automatically or be incorrect in the eForm (Part A section A1 – field 'accreditation number'), please use this section to indicate it and explain how it applies to your HEI.
The charter code is composed of the country code (letters) – city acronym – number (2 digits). You can consult the Erasmus Charter holders' list published on the following link: https://eacea.ec.europa.eu/erasmus-plus/actions/erasmus-charter_en .

PART VII. Work Plan and Work Packages

VII.0. Work Plan and Work Packages (WPs) list

Please enter the different project activities you intend to carry out in your project.

WP number	WP title
WP1	
WP2	
WP3	
WP4	
WP5	
WP6	
Etc.	

For each WP, please fill in the following WP description, WP results and WP explanation of expenditures (add more WPs if necessary)

VII.1. Work Package 1 – (Add Title)

WP1 description

WP No.1	
	□Preparation
	☐ Management
Work Package/Activity	☐ Implementation (the substance of the work planned including production, testing, etc.)
type	☐ Quality Assurance (quality plan)
	☐ Evaluation
	☐ Dissemination and Exploitation of results
Title	
Description (Recommended limit 1500 characters)	
Tasks (Recommended limit 3000 characters)	
Estimated start date	
Estimated end date	
Lead organisation	
Participating organisations	

WP1 Results (outputs and outcomes)

Please add tables as necessary.

Expected result (output or outcome)	WP1	
	Title	
	Туре	
	Description	

	(Recommende d limit 1500 characters)		
	Due date		
	Language(s)		
	Media(s)		
Dissemination level	 □ Public □ Restricted to other programme participants (including Commission services and project reviewers) □ Confidential, only for members of the consortium (including EACEA and Commission services and project reviewers) 		
Please explain what mobilities are to be	of Work Package expenditures costs will be associated to each Work Package and covered by scale of unit costs. If lead organised, please explain what is covered under the heading for "travel and subsistence companies."		
(Recommended limit	3000 characters)		

VII.2. Work Package 2 – (Add Title)

WP2 description

WP No.2	
	☐ Preparation
	☐ Management
Work Package/Activity type	☐ Implementation (the substance of the work planned including production, testing, etc.)
type	☐ Quality Assurance (quality plan)
	☐ Evaluation
	☐ Dissemination and Exploitation of results
Title	
Description (Recommended limit 1500 characters)	
Tasks (Recommended limit 3000 characters)	
Estimated start date	
Estimated end date	
Lead organisation	
Participating organisations	

WP2 Results (outputs and outcomes)

Please add tables as necessary.

Expected result (output or outcome)	WP2	
	Title	
	Туре	
	Description (Recommende d limit 1500 characters)	

	Due date				
	Language(s)				
	Language(s)				
	Media(s)				
	☐ Public				
Dissemination level	Restricted to other programme participants (including Commission services and project reviewers)				
	☐ Confidential, only for members of the consortium (including EACEA and Commission services and project reviewers)				
WP2 Explanation	of Work Packa	ge expenditures			
	organised, please	ociated to each Work Package and covered by scale of unit costs. If learn explain what is covered under the heading for "travel and subsistence cos			

VII.3. Work Package 3 – (Add Title)

WP3 description

WP No.3	
Work Package/Activity type	☐ Preparation ☐ Management ☐ Implementation (the substance of the work planned including production, testing, etc.) ☐ Quality Assurance (quality plan)
	☐ Evaluation ☐ Dissemination and Exploitation of results
Title	
Description (Recommended limit 1500 characters)	
Tasks (Recommended limit 3000 characters)	
Estimated start date	
Estimated end date	
Lead organisation	
Participating organisations	

WP3 Results (outputs and outcomes)

Expected result (output or outcome)	WP3	
	Title	
	Туре	
	Description (Recommende d limit 1500 characters)	

	Due date	
	Language(s)	
	Media(s)	
	☐ Public	
Dissemination level	\square Restricted to other programme participants (including Commission services and project reviewers)	
10.01	☐ Confidential, only for members of the consortium (including EACEA and Commission services and project reviewers)	
W/D3 Evalenation	of Work Package expenditures	
Please explain what	costs will be associated to each Work Package and covered by scale of unit costs. If lea organised, please explain what is covered under the heading for "travel and subsistence"	

VII.4. Work Package 4 – (Add Title)

WP4 description

WP No.4	
	☐ Preparation
	☐ Management
Work Package/Activity type	☐ Implementation (the substance of the work planned including production, testing, etc.)
сурс	☐ Quality Assurance (quality plan)
	☐ Evaluation
	☐ Dissemination and Exploitation of results
Title	
Description (Recommended limit 1500 characters)	
Tasks (Recommended limit 3000 characters)	
Estimated start date	
Estimated end date	
Lead organisation	
Participating organisations	

WP4 Results (outputs and outcomes)

Expected result (output or outcome)	WP4	
	Title	
	Туре	
	Description (Recommende d limit 1500 characters)	

	Due date	
	Language(s)	
	Media(s)	
	☐ Public	
Dissemination level	Restricted to reviewers)	other programme participants (including Commission services and project
	1	only for members of the consortium (including EACEA and Commission project reviewers)
WP4 Explanation	of Work Packa	ge expenditures
	organised, please	ociated to each Work Package and covered by scale of unit costs. If learn explain what is covered under the heading for "travel and subsistence cost

VII.5. Work Package 5 – (Add Title)

WP5 description

WP No.5	
	☐ Preparation
	☐ Management
Work Package/Activity type	☐ Implementation (the substance of the work planned including production, testing, etc.)
cy pe	☐ Quality Assurance (quality plan)
	☐ Evaluation
	☐ Dissemination and Exploitation of results
Title	
Description (Recommended limit 1500 characters)	
Tasks (Recommended limit 3000 characters)	
Estimated start date	
Estimated end date	
Lead organisation	
Participating organisations	

WP5 Results (outputs and outcomes)

Expected result (output or outcome)	WP5	
	Title	
	Туре	
	Description (Recommende d limit 1500 characters)	

	Due date	
	Language(s)	
	Media(s)	
	☐ Public	
Dissemination level	Restricted to reviewers)	other programme participants (including Commission services and project
		only for members of the consortium (including EACEA and Commission project reviewers)
WP5 Explanation	of Work Packa	ge expenditures
	organised, please	ociated to each Work Package and covered by scale of unit costs. If lear explain what is covered under the heading for "travel and subsistence co

VII.6. Work Package 6 – (Add Title)

WP6 description

WP No.6	
Work Package/Activity	☐ Preparation ☐ Management ☐ Implementation (the substance of the work planned including production, testing, etc.)
type	☐ Quality Assurance (quality plan)
	☐ Evaluation
	☐ Dissemination and Exploitation of results
Title	
Description (Recommended limit 1500 characters)	
Tasks (Recommended limit 3000 characters)	
Estimated start date	
Estimated end date	
Lead organisation	
Participating organisations	

WP6 Results (outputs and outcomes)

Expected result (output or outcome)	WP6	
	Title	
	Туре	
	Description (Recommende d limit 1500 characters)	

	Due date
	Language(s)
	Media(s)
	□ Public
Dissemination level	☐ Restricted to other programme participants (including Commission services and project reviewers)
10,01	☐ Confidential, only for members of the consortium (including EACEA and Commission services and project reviewers)
WP6 Explanation	of Work Package expenditures
	costs will be associated to each Work Package and covered by scale of unit costs. If learn organised, please explain what is covered under the heading for "travel and subsistence cos 3000 characters).

VII.7. Overview of consortium partners involved and resources required

Please add lines as necessary according to number of Work Packages and partners involved.

Indicative input of consortium staff - The total number of days per staff category should correspond with the information provided in the budget tables.

N° of		Partners involved	Country	Number of staff days					Role and tasks in the Work Package
Work Package	Lead partner			Category	y Category	Category	Category	Total	
				1	2	3	4		
1	Lead partner	P(n)							
		P(n)							
		P(n)							
		P(n)							
Subt	otal								
2	Lead partner	P(n)							
		P(n)							
		P(n)							
Subt	otal								
3	Lead partner	P(n)							
		P(n)							
		P(n)							
Subt	otal								
4	Lead partner	P(n)							
		P(n)							
		P(n)							
Subt	otal								
5	Lead partner	P(n)							
		P(n)							

N° of	Lead partner	Partners involved	Country	Number of staff days					Role and tasks in the Work Package
Work Package				Category	Category	Category	Category	Total	
				1	2	3	4		
		P(n)							
Subtotal									
6	Lead partner	P(n)							
		P(n)							
		P(n)							
Subtotal									
	TOTAL								

VII.8. Overview of expected results (outputs and outcomes)

Please add lines as necessary according to number of Work Packages (WP) and results (outputs or outcomes).

N° of WP	Lead organi- sation (Pn)	Delive- rable nr	Start date	End date	Title of the deliverable	Medium that will be used (publication, electronic, online, other (specify))	Languages	Dissemination level (Public, Restricted, Confidential)	Target groups/potential beneficiaries
	<u> </u>								
	<u> </u>								
		·							

PART VIII. Specific arrangements regarding Associated Partners (if applicable)

In addition to full partners, Knowledge Alliances can also involve Associated Partners who contribute to the implementation of specific project tasks/activities or support the dissemination and sustainability of the Alliance. From a contractual point of view, they are not considered as project partners and do not receive funding, however it is important to make clear in the application how they will contribute to the project

Please list hereafter the associated partners	
Names of the Associated Partner organisations	Types of organisations
Explain their involvement and role in the project and diffe	erent activities (Recommended limit 1500 characters)

Annex – Affiliated Entities (if applicable)

Please fill in this Annex in case your Consortium involves Affiliated Entities.

I. List of Affiliated Entities that are members of the beneficiaries' organisation(s) involved in the application

Please fill in the table indicating the beneficiaries' and their affiliated entities who will participate in the project activities.

Beneficiary N° (please use the same numbering both in the eForm and in the Excel budget table)	Name of the beneficiary (partner) organisation	Country	Affiliate d Entity N° AE (AE1 – AEn)	Name of the Affiliated Entity of the beneficiary organisation	Country of the Affiliated Entity
P 1			AE	Affiliated Entity 1	
				Affiliated Entity 2	
				Affiliated Entity 3	

II. Description of the Affiliated Entities

Organisation name

Country

This section must be completed separately by each Affiliated Entity participating in the project. Please use the same numbering as in the table above, corresponding to the one on the eForm and the Excel budget table (e.g. AE1 refers to Affiliated Entity 1 of the beneficiary organisation who is Px in the eForm).

Partner number - P x [P1-Pn] (beneficiary organisation) Affiliated Entity number AE x (AE1 – AEn) (member of the beneficiary organisation)

Please provide information on the legal or capital link between the Partner organisation and the Affiliated Entity.
Please briefly describe the profile (with regard to the required types of organisations) and the role of your
organisation in the project.
Please indicate the names of the staff that will be involved and provide a brief description of their expertise.

III. Overview of consortium partners and their Affiliated Entities and resources required

Please add lines as necessary according to number of Work Packages, partners and Affiliated Entities involved.

Indicative input of consortium staff - The total number of days per staff category must correspond to the information provided in the budget tables.

For each Work Package concerned, please fill in the table for each partner organisation whose Affiliated Entities will be involved in the project activities. Please list the number of days and tasks allocated to each Affiliated Entity in additional rows. The number of days dedicated to a beneficiary organisation has to be splitted between the partner organisation and its Affiliated Entity. For example, the partner organisation has 10 days for category 1, but after including the Affiliated Entities, it will have 5 days, Affiliated Entity 1 - 3 days and Affiliated Entity 2 - 2 days (total will be 10). Information regarding the other partners should not be modified.

N° of Work	Partner organisations	Country		Nu	mber of staf	Role and tasks in the Work Package		
Packag e	involved		Category	Category	Category	Category	Total	
			1	2	3	4		
1	P(x) Partner organisation							
	Affiliated Entity 1 (name of the organisation)							
	Affiliated Entity 2 (name of the organisation)*							
	Affiliated Entity 3 (name of the organisation)*							
2	P(x) Partner organisation							
	Affiliated Entity 1 (name of the organisation)							
	Affiliated Entity 2 (name of the organisation)*							

^{*}Please add rows as necessary.