

CRENG DISSEMINATION ROADMAP SUSTANABILITY OF THE PROJECT RESULTS CRENG NETWORKING



**Crisis and Risks Engineering for Transport Services /
CRENG**

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1. INTRODUCTION

European added value of CRENG consist in contributing to the Global problem solving of providing high quality transport services of passengers and cargoes in TRACECA, which is the main route connecting Europa and China. This contribution consists in incising sustainability of transport systems of UA, AZ, TM under conditions of risks by educating high skilled specialists in CRENG area.

Effective dissemination is essential in order to make sure that the project and their effect will be visible. The CRENG consortium will be disseminating the results of the project to multiple audiences, via different channels, at different intervals, etc. The aim of this dissemination strategy is to maximize the impact, visibility and credibility of the project.

CRENG dissemination and sustainability roadmap is the basis for Partners dissemination plans at local level to ensure the dissemination of the project results, public awareness through active networking among academic communities and stakeholders in the target and neighbouring countries, creation the stimulating environment for experience exchange, promotion and dissemination of project results and the links developed between university and stakeholders as well. To ensure the operation of CRENG dissemination strategy P1 and P4 conducted specialized, partners-oriented workshops at kick-off meeting and then all Partners did the same at local level. Three regional informational seminars were conducted during NEOs monitoring at each Partner Country.

After each training course for CRENG teachers (at P1, P2 and P3) all participants from Partner Countries conducted methodological seminars at local level in their institutions to disseminate CRENG results for target groups (academics, students, teachers, administrative staff, see – <https://www.facebook.com/CrengErasmus/>).

To ensure visibility of the CRENG project P4 published CRENG flyers, banners and notepads and distributed them to all Partners. All universities from Partner Countries were equipped with rollups (banners) informing about CRENG project and CRENG consortium, as well as EU funds, to be used by Partners during all events related to the project.

To ensure sustainability and exploitation of the project results among the Stakeholders, CRENG Service Offices (SO) at each PC University are in the organization phase. CRENG SO will be implemented as the division at each target university and will operate as the link between Partners, stakeholders and graduates. Offices will promote new teaching methods:

- i. International Project Based Learning (IPBL) to engage students from different PCs and EU in joined global oriented problems solving projects and provide integration to the global risks and crisis engineering community;
- ii. Skills Wallet to help future employees to acquire specific skills required for particular position. CRENG SO will operate on the basis of self-funding and/or grants support. CRENG SO will be responsible for planning, organization and quality control of refreshing courses for graduates.

CRENG + Agreement was developed by P4. CRENG + Agreement is dedicated to disseminating project results by providing links among PCs HEIs and enterprises. CRENG + Agreement will be signed by consortium members and universities, enterprises and other

organizations outside the consortium interested in CRENG project results. All PCs universities adopted CRENG + Agreement and started the activities to involve organizations outside the consortium. CRENG+ Agreement valid during 5 years after the end of the project.

2. PROJECT CONSORTIUM

2.1. Consortium role and competences

CRENG feature is well-balanced partnerships of organizations involved: in the multidisciplinary subject matter practitioners, in instructional design (including qualification with learning outcomes definition) and evaluation, in e-learning environment development, in teaching and training.

The project based on a multilateral partnership between EU and UA, AZ, TM HEIs and stakeholders. It involves representatives of all target groups: teachers and students, employers of graduates, policymakers in the related sector. The consortium covers two regions: Eastern Partnership and Central Asia, which would allow wider impact of project results through their dissemination in two regions, to increase regional cooperation. PCs part of consortium consists of 9 HEIs, which together make strong scientific and technical educational base on transport services branch in own country. Among target HEIs there are experienced in ERASMUS and Tempus projects HEIs that guarantee the quality of project outcomes, as well as new participants P7, P12 that increase dissemination of ERASMUS + program. The P1-P4 EU academic partners have experience in ERASMUS and Tempus programs, strong scientific and teaching background in delivering courses inclusive ECTS on related area and experience in transferring courses to the PCs universities.

There is a reasonable spread of responsibility amongst the partnership. P1 is an applicant, experienced in coordinating and participating in a number of international projects incl. Erasmus+. P16, P17 as stakeholder are future employers of the students. P14-P17 will be involved in all stages of the project to ensure the work-linked content will satisfy the needs of the sector by consulting in upgrading the curricula to the more job-oriented, evaluation the courses and dissemination the project results in regional and national level. P5-P13 as PCs universities will adapt/develop new curricula on intelligent and digital transport logistics.

P14, P15 are Ministries of education will support and control the project run. All partners will be involved in the needs analysis, all evaluation activities, pilot test, and share the responsibility for the valorisation of project results. Expertise and capacities of participants: in curriculum development P1-P13; in implementing two cycle system/ECTS P1-P13; in training engineers in transport logistics, economics, computer science, applied mathematics for transport and related sector P1-P3, P5-P13; in practice oriented teaching on transport P1-P3, P5-P13; in partnering EU-PC institutions P1-P13; in access to the linkage with labor market P1-P17; in establishing and operating network universities-labor market P1-P4; in event organization skills P1-P13; in technical capacity to run EU projects: P1- P13; in gender equality P1-P4.

P16, P17 as large employer, interested in implementation CRENG on its activity and highly qualified graduates will consult in areas where the need to strengthen the knowledge of graduates. CRENG presents the best of partners that complement each other in an ideal way taking into account the balanced participation of key persons.

TABLE 1. Project consortium Academic Partners

Partner number	Institution	Acronym	City/Country
P1	Warsaw University of Technology	WTU	Warsaw/ Poland
P2	Technische Universität Berlin	TUB	Berlin/Germany
P3	Université polytechnique des Hauts-de-France	UPHF	Hauts-de-France/ France
P4	Exolaunch GmbH (formerly known as ECM space technologies GmbH)	EXO	Berlin / Germany
P5	Pryazovskyi State Technical University	PSTU	Mariupol / Ukraine
P6	Dnipropetrovsk National University of Railway Transport named after Academician V. Lazaryan	DNURT	Dnipopetrovsk/ Ukraine
P7	State University of Infrastructure and Technologies	SUIT	Kyiv / Ukraine
P8	Baku Engineering University	BEU	Baku / Azerbaijan
P9	Azerbaijan Technical University	AZTU	Baku / Azerbaijan
P10	Azerbaijan Technological University	UTECA	Ganja / Azerbaijan
P11	Institute of Telecommunications and Information Technologies of Turkmenistan	ITITT	Ashgabat / Turkmenistan
P12	International University for the Humanities and Development	IUHD	Ashgabat / Turkmenistan
P13	Turkmen State Architecture and Construction University	TSACI	Ashgabat / Turkmenistan

TABLE 2. Project consortium Associated partners

Partner number	Institution	Acronym	City/Country
P14	The Ministry of Education of the Republic of Azerbaijan		Baku / Azerbaijan
P15	Ministry of Education of Turkmenistan		Ashgabat / Turkmenistan
P16	The Ukrainian Railway (Ukrzaliznytsia)	UZ	Ukraine
P17	Baku Transport Agency	BNA	Baku / Azerbaijan

3. DISSIMINATION STRATEGY

3.1. The objectives of the dissemination strategy

The objectives of the dissemination are to make the target groups aware of the project, provide a platform that allows the target groups find out more about the project, build a brand that the target groups can associate with and comfortable use in their own communication.

P5 is responsible for leading this work package and all other partners are responsible for supporting the dissemination strategy in their own countries. P5 will liaise with the other partners monthly ensure that they are aware and progressing their responsibilities as part of this

work package. Each partner has to take a lead within the own country on dissemination and help to raise awareness amongst targeted stakeholders in their own local, region and national context.

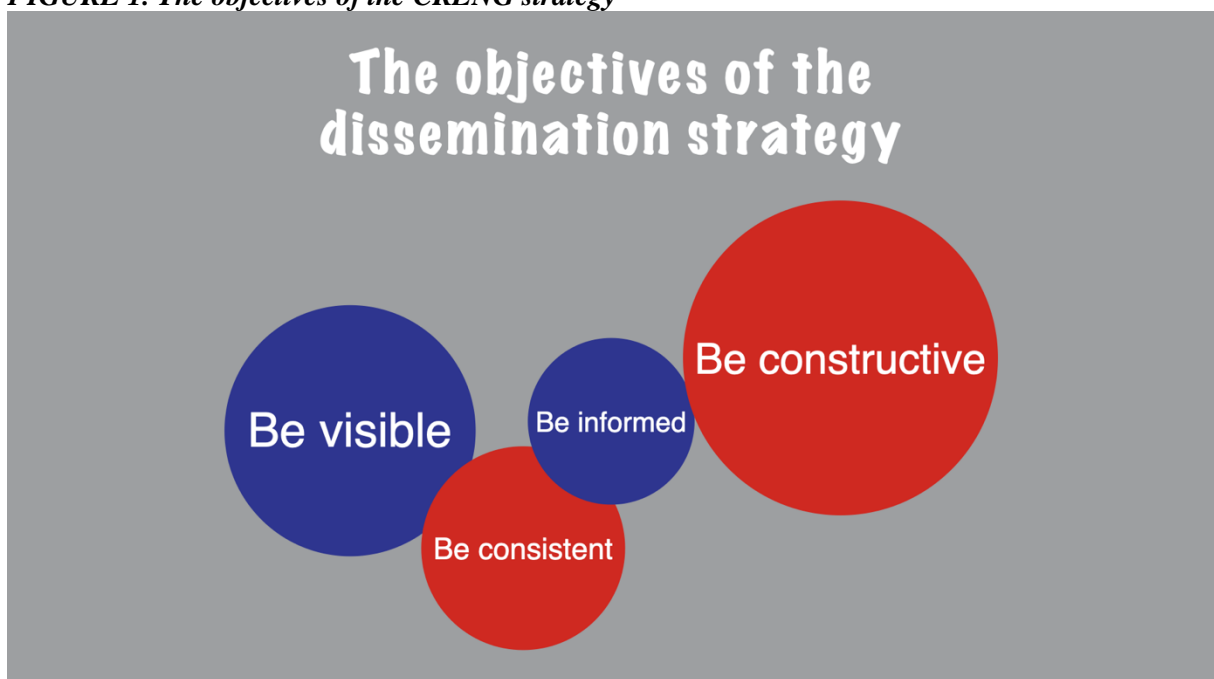
The general objective of the dissemination plan is governed by the need to support the project sustainability and shall be focused on the following:

- Multiply the project outcomes, spreading the information about the project to groups of people or institutions not directly involved in the project in order to share the results, best practices, lessons learned and possibly contribute to the solution of similar issues in a broader institutional, regional and national context;
- Gaining support from political decision - makers as to facilitate the necessary political support and generate potential positive decision concerning project's sustainability;
- Gaining acceptance and interest from the direct users/ target groups for the delivered services after the project end and/or to potentially support the project's sustainability.

The objectives of the strategy are as follows:

- ⇒ **D**esign, develop and regularly update a dedicated GRENG website;
- ⇒ **P**ublicity and advertising of achieved project results by media coverage, conference and journal articles;
- ⇒ **T**ransfer knowledge to industry about changes in academic area - the creation of new training materials, educational resources and the new curricula;
- ⇒ **T**o transfer the knowledge acquired to the wide public in a common and direct language;
- ⇒ **S**upport the development of a strategy for the exploitation.

FIGURE 1. The objectives of the CRENG strategy



3.2. Dissemination & exploitation activities

To spread the results of the project objectives and to exploit those in the terms of mainstreaming and multiplication concrete target groups as under will be also set up: the local level- students, graduates, academic teachers/administrative staff, technicians, local community administrative staff as policy-makers inside and outside the project; local providers of transport services; the regional level- regional community administrative staff as policy-makers inside and outside the project; regional providers of transport services; the national level- ministries as policy-makers; the European level- students of EU universities, graduates, teaching/administrative staff, EU Logistics Service Offices.

The dissemination activities defined are aligned with the objectives of the dissemination towards target audiences: publications (P1-P13) in a conferences, set up a web platform, website, which will facilitate interaction and dialogue with stakeholders (P1-P13, P16-P17), set up CRENG Service Office network (P1-P13, P16-P17) to support effective communication with interested stakeholder and other parties, produce e-newsletters and distribute them to stakeholders, issue a series of stakeholder briefing papers to describe emerging results at key stages of the project's life. P5 is responsible for WP4 and all other partners are responsible for supporting the dissemination strategy in their own countries.

The activities will address the following target groups and be organized following events:

Event-based dissemination: The CRENG project will organize min 3 annual dissemination workshops to inform and engage with the national academic communities. The Final project Conference will address a broader audience bringing together additionally policy makers, NGOs, education authorities, other stakeholders important to the best practice proliferation in the countries.

Web-based dissemination: The CRENG project website will serve as a major interface and community building platform. In addition to being a repository to all tangible outcomes (training and teaching materials, webinars, results of the Feasibility Study, Repository entry point, methodological materials, reference materials, etc.), it will enable community activities. On top of that, all partners will use other available web-based dissemination channels (own websites, mailing lists, community resources etc.). The information will be addressed to all target groups.

Traditional dissemination: The CRENG project will produce the set of traditional promotional materials, it will publish major results in media (general public) and professional journals (academic community) and/or conference presentations / posters. Additionally, the project will organize several briefing meetings with policy making stakeholders to enable a multiplier effect.

3.3. Exploitation planning and exploitation of the results

- ⇒ The project will plan the exploitation (including how to bear running costs) of such principle outcomes as the set of developed methodological materials, the repository, the website, etc. for the period of min. 3 years after the project end.
- ⇒ Exploitation nature: public nature - openly available for re-use.

- ⇒ Involving into practical aspects of dissemination/exploitation: involving external stakeholders in Evaluation trial and in developing practical tutorials during workshops to ease external exploitation and uptake.
- ⇒ Activities after the end of the project: continuing further dissemination, developing ideas for future cooperation, evaluating achievements and impact, contacting relevant media and contacting policymakers on request.

The important aspect will be cooperating with the European Commission by providing useful inputs to its dissemination and exploitation efforts.

4. COMPONENTS OF THE DISSEMINATION PLAN OF THE PROJECT

4.1. Target Groups

The main contribution of the project will be environment for education of high skilled specialists on CRENG in line with labor market, EU best practices and Bologna process.

The target audiences to use the project outputs/ products/ results structured according the levels of its implementation are presented below:

The local level: HEIs in general and initially members of the project, students inside and outside the project, graduates, academic teachers /administrative staff inside and outside the project, local community administrative staff as policy-makers inside and outside the project; employers among local companies.

The regional level: regional community administrative staff as policy-makers inside and outside the project; employers among regional companies.

The national level: Ministries as policy-makers; management of regional transport services providers.

The European level: HEIs in general and initially members of the project, students of EU universities inside and outside the project, graduates, teaching/administrative staff inside and outside the project, EU Logistics Service Offices inside and outside the project.

The main target groups of the dissemination of CRENG can be distinguished into two main areas:

Specific audience (SA):

- i.** Academic community - students, researchers, teaching staff/trainees, professors or other people involved in activities related to the project's topic and interested in following its development and outcomes);
- ii.** Administrative & Technical staff – they will support the teaching and learning centers;
- iii.** Industry, including stakeholders, experts or practitioners in the field (graduate engineers) and other interested parties;
- iv.** Non-governmental organizations, professional associations in the field of HE teaching and learning;
- v.** Decision-makers at local, regional, national level;
- vi.** Municipal, regional and state authorities;

General audience (GA):

- i.** All interested – persons, who may not have professional interests in the project, but that in terms of visibility result to be very important for the project.

The CRENG project website, news to be sent to media, newsletters, content posted in social media, research publications, and oral presentations and reports at different events will provide the main tools and activities to capture new stakeholders.

TABLE 3. Dissemination strategy – Channels & Target Audience

Channel	Target Group	Targeted Aim	Responsible person	Goal
CRENG Website / Universities website project	All stakeholders	Provide a gateway to all project information's and activities	Coordinator + National Coordinator + Responsible partner	Awareness & Uptake
Social Media	CRENG community, all interested, especially academic area	Public awareness and essential presence	ECM	Awareness
Newsletter	CRENG community, consortium	Regular updates about CRENG project; Spread the word on CRENG research community requirements or achievements	Coordinator + Responsible partner	Awareness
Workshops and training activities	All stakeholders	Raise awareness of project outputs, attract stakeholders, investigate key topics	Partners according to their possibilities	Awareness & Uptake
Journal articles, conferences and events	CRENG community, all interested, researchers, open science community, Funders	Presentations, articles, factsheets and posters will raise awareness, networking will serve to target relevant stakeholders	Responsible partner	Uptake
Brochures, leaflets, flyers, posters, briefing papers, infographs	All stakeholders: Research communities, Administrators, Managers, Funders, Learned Societies	Detailed overview of CRENG progress & activities	Coordinator + Responsible partner	Uptake & Support
Multimedia	General public, CRENG community, research communities	Overview of CRENG presentations, webinars, relevant news articles and press releases	Partners according to their possibilities	Uptake & Support

4.2. Dissemination channels

CRENG will perform its dissemination activities on a wide range of channels, in order to maximize impact and to reach all target audiences. The following channels will be used to target each of the target groups, with a specific aim:

Traditional channels:

- Local, regional, national Press and Media
- Conferences and Workshops
- Project Website
- Newsletter
- Official Presentations
- Publications
- Research articles
- Press Releases

Modern channels:

- Social media, such as: Facebook, ResearchGate, Instagram informal information between colleagues at the university
- Collaborative events and partner networks

FIGURE 2. CRENG Dissemination Channels



4.3. Dissemination methods

The methods of reaching and involving these target groups to use the outputs and results of the CRENG project during the project life:

- ⇒ **Internet recourses:** project web pages at partners' websites developed in 4 languages (EN, UA, AZ, TM), project website, developed in English; Facebook community to highlight projects activities and news, to provide target groups access to projects products: CRENG Service Offices, IPBL. Internet recourses cover all levels of target groups.
- ⇒ **International, regional, local information conferences and events** inviting representatives from identified list of stakeholders, other universities, consortium, and EU delegations Conferences cover all levels of target groups.
- ⇒ **Massive media diffusion:** articles and interviews in press, interviews on TV to highlight all projects activity. Mass media mainly covers local and regional target groups.

The products of the project are also methods to reach target groups during project life because they will be in function at the beginning of third project year.

- International project Basd Learning (IPBL) involves students from PCs countries and EU, and as a result covers local, regional and European target groups;
- CRENG Service Offices network in action execute two functions: to attract and connect PCs universities, enterprises, other organizations, which are not participants of the consortium, but interested in cooperation in CRENG area; to support IPBL by providing connection of PCs universities, EU universities and EU Transport Logistics Service Offices. CRENG Service Offices network covers local, region and European target groups;
- Skills Wallet a method of increasing employability of graduates will help to reach employers at local, regional and national levels.

TABLE 4. Overview of the dissemination methods for CRENG

Methods	Purpose
Project website	A project website is one of the most versatile dissemination tools. It will contain information for different audiences. It will be updated regularly so people will be coming back.
Universities website	Information dedicated for academic community, recommended in national languages and in English.
Website of National Erasmus+ Offices	Spread information also in national levels in PCs.
Social media	Information for project partners, engagement partners in project planning and improvement.
Press releases	Flyers in printed form can be handed out at conferences, other events or to colleagues / students at each institution. An electronic version (e.g. PDF file) can also be circulated electronically.
News posted in local/regional/national media	To make aware the larger society, regular news of the project must be sent to media.
Programme meetings	Programme meetings are excellent opportunities for projects to learn from each other, discuss common issues, and get feedback on their work.
Conference presentations/posters	National and international conferences are an important opportunity to share your achievements with experts in the field.

Events, including lectures, demonstration and workshops	There are useful in the project to get feedback from students and other stakeholders (including industry) on functionality, usability, and look-and-feel.
Reports and other documents	Reports will be posted on the website in the part dedicated for project partners or for whole (depends on character of the document).
Articles published in journals/media	To provide professional community with the project's results, research articles on the project's topics must be published

4.4. Activities of the project

Exploitation activities will ensure optimal use of the results within the project's lifetime and after it: CRENG Service Office network incl. network agreement to provide sharing technical recourses, motivate students and academic teachers mobility; creation CRENG+ Agreement to being in touch with future employers and integration into EU CRENG network; join WEB-based platform to place teaching materials incl. interactive ones; implementation new teaching methodology IPBL to cooperate different target groups: PCs, EU students and academic teachers in frame of real world problem solving. Active networking among academic communities and stakeholders in the target and neighbouring countries will create a stimulating environment for experience exchange and promotion of the new teaching methodology and developing links between HEIs and Global Labor Market.

The main project activities:

- ⇒ Editorial plan will be sent to the partners and every year the new editorial plan will be created and afterwards the partners will have the possibility to edit it and propose changes;
- ⇒ Creating a database of names and E-mail addresses of contact persons responsible per partner to cooperate with contents and promotion through university channels;
- ⇒ Creating a database of e-mail addresses of selected contacts from the partners to create a mailing list for the newsletter;
- ⇒ Coordinating partners in charge for the development of the website (sharing contents / preparing posts etc.);
- ⇒ Design of CRENG Project brand (logo, colour scheme, style sheet, etc.);
- ⇒ Design and distribution of promotional CRENG materials (flyers, posters, brochures, etc.);
- ⇒ Exploitation of media resources (newspapers, TV, web portals etc.);
- ⇒ Public dissemination through design and maintenance of the project website;
- ⇒ Facebook with content sharing: frequency according to the progress of the project, hosting by P4 ECM office;
- ⇒ Ensure communication and involvement of all project partners in dissemination activities;

- ⇒ Information about the project at official ERASMUS+ program webpage / platform shared by coordinator (P1) and informations about the project at National Erasmus+ Offices (National coordinators);
- ⇒ Articles publishing by the partner Universities on the websites of the Universities (minimum one article at the launch and one at the end of the project, articles on CRENG conducted events would be in asset);
- ⇒ Traditional publications to be distributed in the partner Universities: professional documentary with storytelling, interviews, etc.;
- ⇒ Organisation and participation in relevant events (workshops, exhibitions, meetings);
- ⇒ Press release on important events of the project;
- ⇒ Developing an agreement on the continued cooperation of the project participants (sustainability of the project results after the project life) inclusive activities on involving new participants in the project based on the Agreement “CRENG Plus”;
- ⇒ Establish synergies with other relevant projects to extent the scope of dissemination results;
- ⇒ Monitor the implementation of the dissemination plan, assess the dissemination activities results and adjust the Dissemination Plan as needed.

4.5. Project impact and indicators

CRENG impact consists in forcing the European dimensions in HE, inter-institutional cooperation, virtual mobility of students and academic staff, and integrated programs of study, training and research.

The project will stimulate introduction CRENG on PCs enterprises to ensure sustainability of UA, AZ and TK transport systems by encouraging the transfer of state-of-the-art research results into developed curricula, by disseminating best practices, investigating emerging areas, and implementing new MA program.

Indicators:

- ◆ Publications (1 publication for consortia every 6 months)
- ◆ Schedule of local sustainability activities and dissemination of the project results (one event per quarter)
- ◆ Plan of local & regional coordination meetings: internal & external events (meetings, conferences, various meetings)
- ◆ Defining a group of related universities and non-academic partners involved in the activities of the project
- ◆ Developing a database of organizations interested in the project
- ◆ Developing of the project website and networking
- ◆ Placing on the university website information about participation in the project and a link to the project page

- ♦ Preparing and publishing brochures/leaflets of the project outputs
- ♦ Participating, organising and conducting of the international conferences
- ♦ Developing an agreement on the continued cooperation of the project participants (sustainability of the project results after the project life)

TABLE 5. Overview of short- and long-term impact indicators

Short term impact	Target groups/potential beneficiaries	Quantitative indicators	Qualitative indicators
Demand in high skilled specialists in CRENG area by labour market in PCs begins to be satisfied	Business, industry, government in PCs	Number of high skilled specialists in CRENG	Efficiency of CRENG implementation in PCs increased
Interaction between employers and HEIs increased by implementation of Skills Wallet	Graduates, business, industry, government		Employability of graduates increased; satisfaction of employers with graduates skills increased
Increased interaction between academia, industry, business and governments established in PCs an EU by CRENG Services Offices network establishing	Academia, business, industry, government both in PCs and EU	Number of join projects, researches, events	
Competence of students and academic teachers from PCs HEIs in English increased by establishing IPBL and delivering lectures in English	Academic teachers, students	Number of students/ teachers, participated in mobility programs; Percentage of successfully passed language tests	
Improved provision of transversal skills (project management, conducting researches, carrier management) by implementation of 3 transferable modules	Students, employers		Employability of graduates increased; satisfaction of employers with graduates skills increased
Long term impact	Target groups/potential beneficiaries	Quantitative indicators	Qualitative indicators
Quality of PCs transport services at national and international levels increase	Passengers, business, industry, government both in PCs and EU	Growth of international transportations	Level of transport services satisfaction increased
Better recognition of skills and qualification gained in PCs HEIs by EU	HEIs, students	Number of students from PCs, continued education in EU; Number of PCs graduates employed in EU	
Improvement of pedagogical approaches into educational process of respective engineering specialities by implementation of EU experience, best practises and tools into PCs educational process	Teachers, students, trainees		Level of EU standards implementation in PCs increased

5. CRENG OUTPUTS AND RESULTS

5.1. Project outputs

Students will be educated in new, innovative methodologies for solving real-world problems in international environment.

Academic professionals will be reached through regular academic discourse, including publications by the project team, presentation of new methodological directions at conferences.

Ministries as policy-makers, stakeholders, future employers, including media and the interested public bodies will be affected through involvement of the Project team in the public debate and cooperation with national and EU institutions, think-tanks, and media.

The EU partners, according to their strengths in education, innovation, will gain from partnerships within and outside Europe by reinforcing and complementing their individual profile: through further joint projects and research activities, web-based courses combining traditional and new distribution and delivery channels, including the running of joint or branch campuses in non-EU countries.

Established academic networks on the base of CRENG Service Offices network should be a springboard to launch new teaching collaborations, and mature education partnerships in order to: promote quality assurance and mutual recognition of qualifications; to attract and deepen partnerships; to enhance the international experience, intercultural competence and employability of graduates.

5.2. Project results

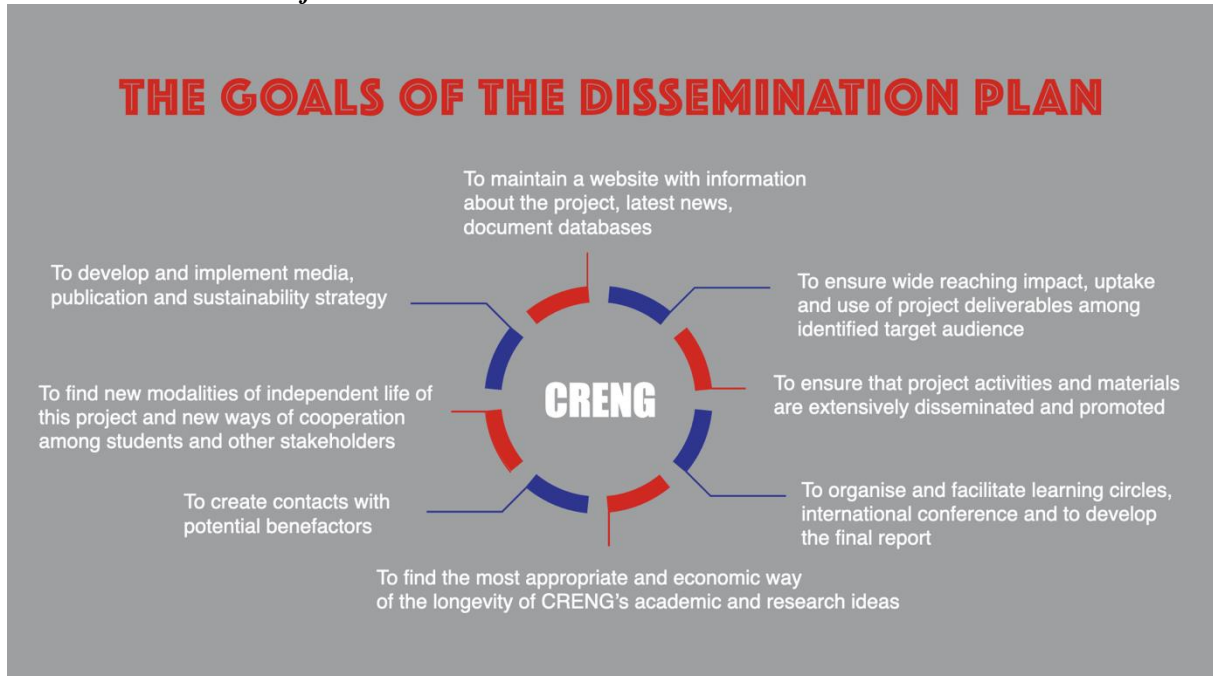
The project products: join WEB based platform, CRENG Service Offices network, IPBL and Skills Wallet are dedicated to reach target groups after the project will be finished.

- ♦ Main functions of WEB based platform will be providing open access to information about the projects during 3 years after the end of the project; dissemination information about CRENG Service Offices network by providing links; placing and updating all teaching materials on CRENG.
- ♦ Project will motivate for language learning through innovative teaching methods IPBL, which offer better links to practical use of language skills required by the labor market by solving real world problems in international environment.
- ♦ CRENG Service Offices network will execute additional function, except those which are described above: to connect universities and enterprises in order to upgrade curricula in line with labor market requirements; to support graduates employment by providing links and being in touch with future employer; to organize refreshing courses for graduates; to support connection between science and enterprises by consulting in creation of business start-ups. CRENG+ Agreement is dedicated to disseminate project results on local, regional and EU levels.

To disseminate project results at all levels (local, regional, national, international) it is planned to invite stakeholders and other parties in interest outside the consortium; to create internet environment, which will include project website and web-based platform, pages in social

network etc. Local authorities, EU delegations will visit important activities during the project life such as information conferences (local, regional, international), seminar on new curricula presentation. In order to work to the highest standard detailed coordination of the project is provided.

FIGURE 3. The Goals of the Dissemination Plan



6. SUSTAINABILITY OF THE PROJECT

Sustainability is another important aspect of successful implementation of this project. Sustainability is the capacity of the project to continue and use its results beyond the end of the funding period.

Outcomes of the project that will support stability of the project: developed, implemented and accredited new MA program on CRENG; created learning environment inclusive developed teaching/learning materials, e-learning courses, join WEB platform; implemented new teaching approach International Project Based Learning; implemented of Skills Wallet, which is new system for increasing graduates' employability; established CRENG service offices network.

In order to assure the long-term perspective of the project outcomes a Strategic Plan to support sustainability will be worked out to be maintained after the end of EU funding. The financial recourses to provide long lasting use of outcomes will be financial profit gained by university from preparing masters on developed curricula, trainings for industrial enterprises and non-university technical staff and conduction of research on stakeholders' order, managed by CRENG service offices.

By the end of the project, each partner will establish a business model for further funding and maintains after the end of the project. The activity of achieving the sustainability will be discussed during every coordination meeting and implemented by all partner universities, involving enterprises in/out of the consortium and presented to the national Ministries.

Sustainability at a national level will be provided by new national laws, which give PCs HEIs more freedom and autonomy in choosing the subject and content of MA programs to made education closer to employers requirements.

Graduates, students and graduate retraining engineers will continue to benefit the target groups on the local, regional and national level. Project website will be active and updated continuously after the end of the project for the further 3 years. IPBL will provide continuous collaboration students from PCs and EU.

After establishing and networking of CRENG service offices CRENG+ Agreement valid for 5 years will be signed by P1 and universities, enterprises, organizations outside the consortium, but interested in cooperation. CRENG+ Agreement assures projects outcomes sustainability by providing links among PCs HEIs and enterprises and commercialization of projects' results.

TABLE 6. Roles and responsibilities of the consortium members involved in dissemination and exploitation

Partner Nr	Partner acronym	Country	Role and tasks
P1	WTU	PL	To participate at all activities according to dissemination /exploration plan (DEP)
P2	TUB	GE	To participate at all activities according to dissemination /exploration plan (DEP); to update WEB site of the project
P3	UPHF	FR	To host and conduct International Information Conferences; to update WEB site of the project
P4	ECM	GE	To participate at all activities according to dissemination /exploration plan (DEP); to develop CRENG+ Agreement and CRENG Service Offices Agreement; to assist in creating CRENG Service Offices network
P5	PSTU	UA	As lead of WP4 to coordinate all activities; to host and conduct Regional Information Conferences; to create project web pages at own web site; to update WEB site of the project; set up and execute full media coverage plan; to create and pilot operate of CRENG Service Offices network incl. promoting IPBL and Skills Wallet; to develop guidelines and conduct refresh courses for graduates; to sign CRENG+ Agreement
P6	DNURT	UA	To host and conduct Regional and Local Information Conferences; to create project web pages at own web site; set up and execute full media coverage plan; to create and update Facebook society; to create and pilot operate of CRENG Service Offices network incl. promoting IPBL and Skills Wallet; to develop guidelines and conduct refresh courses for graduates; to sign CRENG+ Agreement
P7	SUIT	UA	To host and conduct Regional and Local Information Conferences; to create project web pages at own web site; set up and execute full media coverage plan; to create and update Facebook society; to create and pilot operate of CRENG Service Offices network incl. promoting IPBL and Skills Wallet; to develop guidelines and conduct refresh courses for graduates; to sign CRENG+ Agreement
P8	BEU	AZ	To host and conduct Regional and Local Information Conferences; to create project web pages at own web site; set up and execute full media coverage plan; to create and pilot operate of CRENG Service Offices network incl. promoting IPBL and Skills Wallet; to develop guidelines and conduct refresh courses for graduates; to sign CRENG+ Agreement
P9	AzTU	AZ	To host and conduct International, Regional and Local Information Conferences; to create project web pages at own web site; set up and execute full media coverage plan; to create and pilot operate of CRENG Service Offices network incl. promoting IPBL and Skills Wallet; to develop guidelines and conduct refresh courses for graduates; to sign CRENG+ Agreement
P10	UTECA	AZ	To host and conduct Regional and Local Information Conferences; to create project web pages at own web site; set up and execute full media coverage plan; to create and pilot operate of CRENG Service Offices network incl. promoting IPBL and Skills Wallet; to develop guidelines and conduct refresh courses for graduates; to sign CRENG+ Agreement
P11	ITITT	TM	To host and conduct Regional and Local Information Conferences; to create project web pages at own web site; set up and execute full media coverage plan; to create and pilot operate of CRENG Service Offices network incl. promoting

			IPBL and Skills Wallet; to develop guidelines and conduct refresh courses for graduates; to sign CRENG+ Agreement
P12	IUHD	TM	To host and conduct Regional and Local Information Conferences; to create project web pages at own web site; set up and execute full media coverage plan; to create and pilot operate of CRENG Service Offices network incl. promoting IPBL and Skills Wallet; to develop guidelines and conduct refresh courses for graduates; to sign CRENG+ Agreement
P13	TSACI	TM	To host and conduct International, Regional and Local Information Conferences; to create project web pages at own web site; set up and execute full media coverage plan; to create and pilot operate of CRENG Service Offices network incl. promoting IPBL and Skills Wallet; to develop guidelines and conduct refresh courses for graduates; to sign CRENG+ Agreement
P14	MoEAZ	AZ	Visiting conferences, seminars; highlighting projects success in mass media and own website; to participate at all activities according to dissemination /exploration plan (DEP)
P15	MET	TM	To participate at all activities according to dissemination /exploration plan (DEP)

7. DISSIMINATION MATERIALS

The CRENG Logo:



EU Logo:



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All CRENG presentations have to use unified template and CRENG collars: **red**, **grey** and **blue**

THIS DISCLAIER HAS TO BE PUT AT ALL PUBLISHED ELECTRONIC MATERIALS, PRODUSED IN THE FRAMWORK OF CRENG PROGETCT

Disclaimer:

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ANNEX 1

Sustainability of the Erasmus+ CRENG project results

CRENG Networking

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Sustainability of the Erasmus+ CRENG project results

Project results should be used after the completion of its funding;

A project can be considered as sustainable if its outcomes continue after the end of EU funding;

The project can therefore be considered as sustainable if relevant results are pursued and products are maintained or developed after the end of the EU funding.

Project sustainability can be considered from several perspectives, including:

- Organizational sustainability;
- Financial sustainability;
- Operational sustainability;
- Multiplicativity of the project results.



Organizational sustainability

The organizational sustainability involves maintaining the infrastructure and resources, both human and intellectual.

For instance, this can be teaching methods acquired during the project, developed curricula, or intellectual property that allows to produce products or provide services. This list may also include tangible/material products, books, brochures released during the project, other materials, the use of which will allow the university / structural unit to continue its activities in the area of the project.

Operational sustainability & Multiplicativity

Operational sustainability is the viability of the project after the completion of funding and the potential to implement the tasks and functions identified in the project after the end of the project eligibility period.

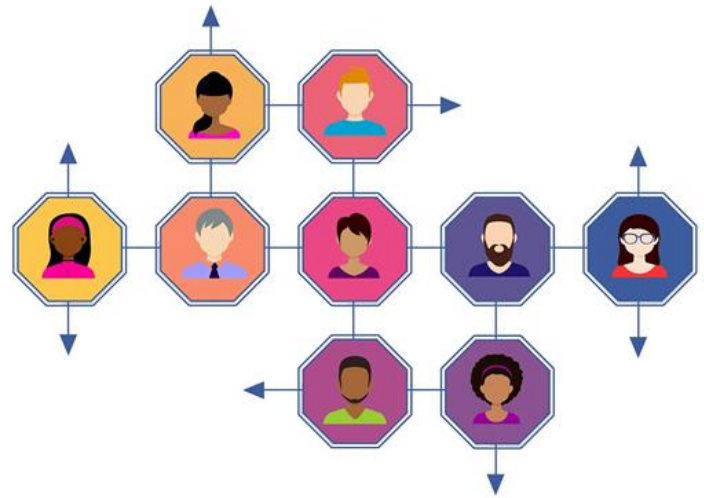
Multiplicativity of the project results is reflected in the impact of the project on the extended group of beneficiaries and other stakeholders.

The project team should pay particular attention to possible indirect effects / results, so-called spin-offs. As a rule, they are beyond the main objectives stated in the project application, however, as the project progresses, additional groups of beneficiaries interested in the project results may emerge. These indirect effects can also be considered as one of the sources of project sustainability in the long run.

It is important for the project team to understand that project sustainability is ensured through the human resources that were involved in the project implementation.

In particular, the staff members trained within the project will ensure that the received skills will be used after the project is completed.

It is human resources that ensure continuity and the added value of the project. Therefore, the project team should try to preserve human resources involved in the project from the very beginning.



Financial sustainability

Financial sustainability is determined by the possibility of further funding after the end of the project. The project team can seek various sources of funding:

- ✓ contracts with the business sector in need of services / products provided as a result of the project;
- ✓ budget funds from the local authorities;
- ✓ financial resources of the university;
- ✓ combination of funding sources, for example, a CRENG SO can conclude an agreement with both local government and with business entities that need qualified personnel / services. Another possible source to consider is delivering training or retraining courses, development of teaching materials and other services.



Sustainability through dissemination and exploitation

With the help of the following dissemination and exploitation activities, it is possible to support sustainability of the CRENG project:

- ✓ Further development of teaching materials and modules, CRENG Master program incl. environment according to the market demand;
- ✓ Improvement of English language capacity (integration of English modules in the new/modernized curricula);
- ✓ Sustainability strategy development in each HEI;
- ✓ Development of CRENG SO Business Plan in each HEI;



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- ✓ Development ideas for future cooperation: CRENG networking, collaboration within CRENG+ Agreements;
- ✓ Further activities of the project network and involving new participants;
- ✓ Preparation of proposals to participate in Erasmus+ projects;
- ✓ Maintenance of the project website, regular update of HEIs websites concerning the outputs of the project, active functioning of CRENG SO and other channels for disseminating information active and relevant to the definite target group.

CRENG NETWORK CONCEPT

Definition

CRENG Network is an established during the project lifetime formal community of CRENG stakeholders

Goal

The goal of the CRENG Network is to generate a sustained flow of activities and outputs to expand the circle of users of CRENG project results incl. in regional context and support development of CRENG project results in line with continually changing labour market, educational and scientific environments.

Ways of networking

Developing of CRENG brand: develop and create profiles on professional social networks, actively participating in it. By adding new contacts, participating in discussion forums, or sharing news, posts, and comments.

Organizing and attending related events: conferences, workshops, breakfasts, or courses and participate proactively in them.

Keep track of contacts: reply to all comments and emails and keep those relationships updated.

Develop social skills.

Structure

CRENG Network includes (Fig.1): CRENG SOs, CRENG Web Platform, CRENG FB page, CRENG+ signatories, partners outside the consortium (institutions or individuals).

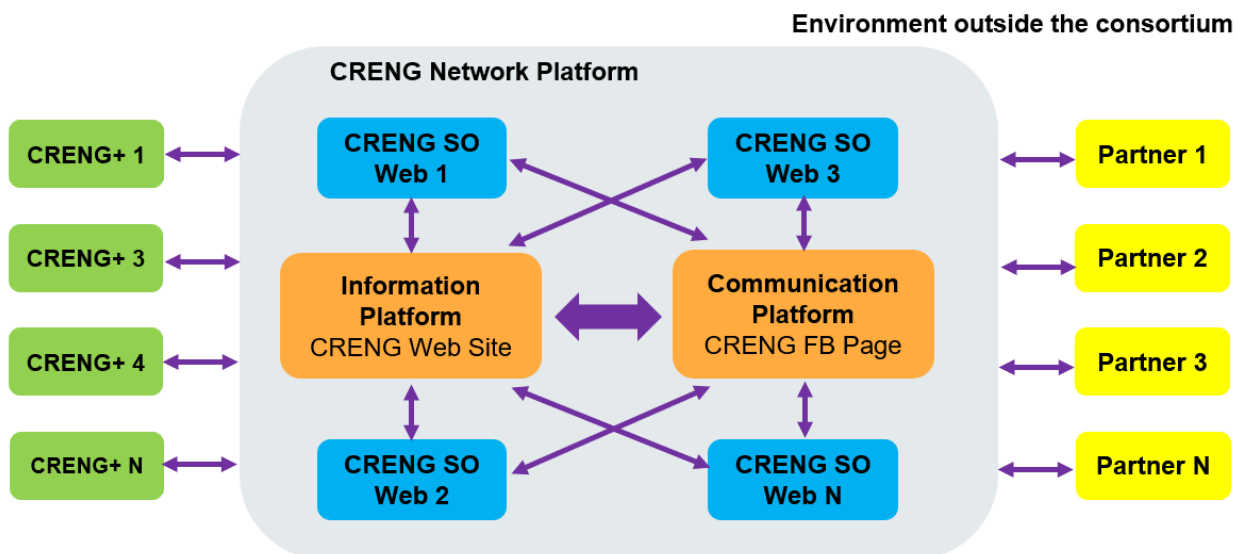


Figure 1 – CRENG Network Structure



Table 1 – CRENG Network includes sustainable project results

Unit	Description	Functions
CRENG Sos	The main management units. The head of CRENG SO of each PCs university is a member of CRENG Network Team.	<ul style="list-style-type: none"> - updating CRENG Web Platform and FB page - expanding CRENG Network participants online and off-line - organizing and promoting CRENG Network events online and offline (master classes, trainings, workshops, conferences etc.)
CRENG Web Platform	The main information platform	Holding information on <ul style="list-style-type: none"> - contacts of network management team - announcing and release of CRENG Network events, activities, and its results - contacts of CRENG Network participants - CRENG project results in free access - useful links
CRENG FB page	The main communication platform	<ul style="list-style-type: none"> - posting information of CRENG network participants - charting - posting announces of CRENG Network events and related events
CRENG+ Signatories	Academic and non-academic institutions CRENG stakeholders	<ul style="list-style-type: none"> - executing CRENG+ Agreements - expanding circle of CRENG stakeholders

Responsibility

Maintaining and updating of CRENG website after project end: lead – SUIT, responsible – all partners' CRENG SOs

Maintaining and updating CRENG FB Page after project end: lead – lead – PSTU, responsible – all partners' CRENG SOs



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Contacts of CRENG SOs Leads/ CRENG Network managers

Partner	Link to the CRENG SO web page or FB page	Contact person	E-mail
SUIT	https://www.facebook.com/creng.so.suit/	Iuliia Bulgakova	jlbulgakova@gmail.com
USUST		Andrii Okorokov	andrew.okorokoff@gmail.com
PSTU	https://www.facebook.com/profile.php?id=100064347991445	Kateryna Polupanova	polupanova.pstu@gmail.com
BEU	http://iro.beu.edu.az/az/page/creng-237/	Arif Najimov	anajimov@beu.edu.az & ari_coordinator@yahoo.com
AzTU	https://www.aztu.edu.az/sub_site/az/creng-88	Fuad Dashdamirov	fuad.dashdamirov@aztu.edu.az
UTECA	http://uteca.edu.az/module_3.php?id=24	Ulviyya Mammadova	ulviyya.m@uteca.edu.az
ITIT	https://itit.edu.tm/portal	Sapargul Valiyeva	sapargulw@gmail.com
TSACI	https://tdbgi.edu.tm/Halkarah.html	Yolly Muradov	yolly1605tm@mail.ru
IUHD	https://iuhd.edu.tm/project/2	Habib Halmamedov	halmamedovh@gmail.com

CRENG Network Concept and setting the responsibilities were discussed and agreed with partners during coordination meeting. All partners are obliged to develop CRENG Network and include networking activities to the CRENG SOs work-plans after project end.