



ERASMUS+ PROJECT
NETCHEM

ICT Networking for Overcoming Technical and Social Barriers in
Instrumental Analytical Chemistry Education

Co-funded by the
Erasmus+ Programme
of the European Union

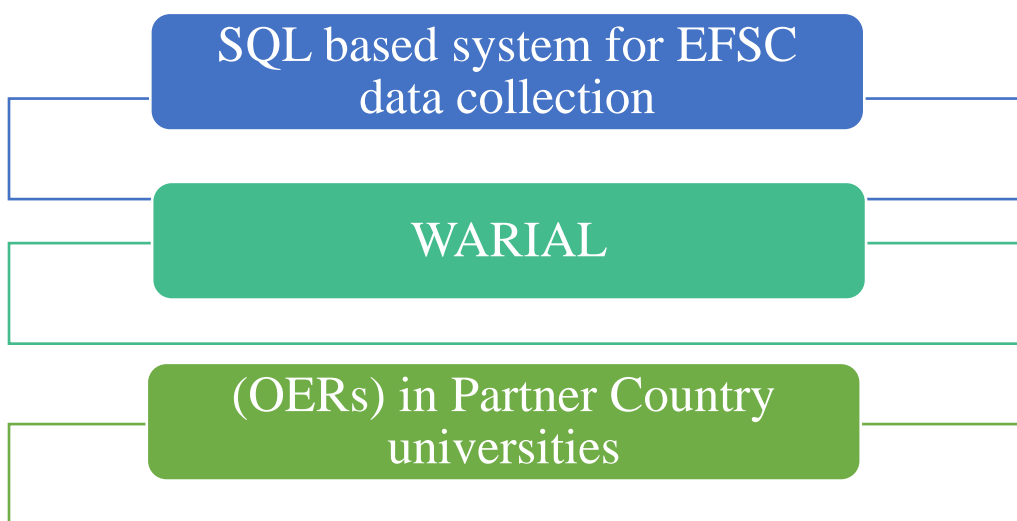


Quantified Indicators for dissemination activities

The main goal of this document is to provide beneficiaries list of activities connected with dissemination and exploitation of the NETCHEM platform and definition of their responsibilities. Effective dissemination is one of key elements enabling publication and popularization of the project results and their acceptance by professional public and also significantly contributes to creating a good image of the project. Another significant contribution is the contribution to mutual awareness of partners.

Activities related with the implementation of dissemination and exploitation of the NETCHEM platform are described here in details. This will help beneficiaries in their successful and effective realization.

Project NETCHEM aims at the establishing of the NETCHEM platform providing three main services:



The primary target audience are people active in EFSC field - HEI teachers, researchers, students and professionals in enterprises. The secondary audience consists of teachers and researchers from non-chemical faculties, administrative staff and also wide public.

The Project tends to promote life-long learning opportunities for HEI teachers and employees in enterprises, quick and reliable results comparisons between researcher groups, distance education and virtual mobility of students within universities, overcoming in this way the technical and social barriers between Partner and EU Countries.

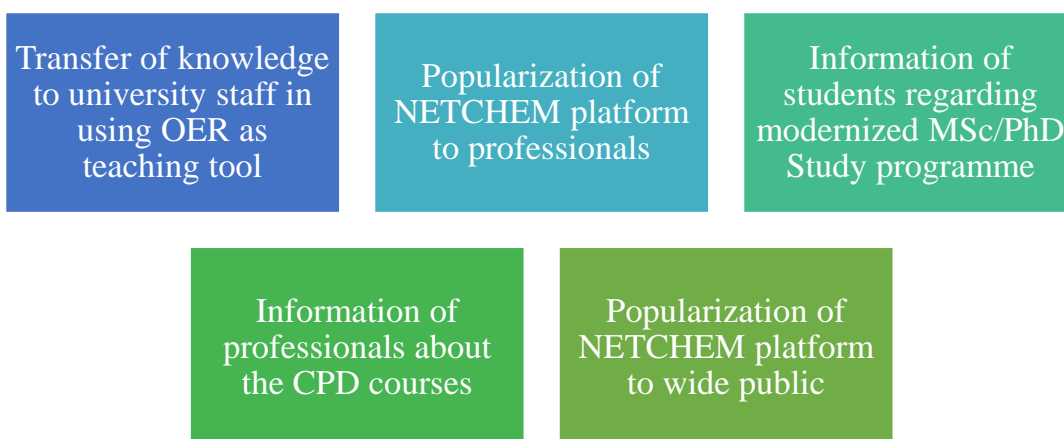
Instrumental analysis of environmental and food samples performed by project members using WARIAL network will provide the basis for establishing the SQL Data Collection of environmental and food quality indicators and chemical data, that will be used for increasing the

public awareness about environmental and food problems addressing to both the professional sector and general public.

The project is complemented by the dissemination, networking activities, international round-tables and study visits. The partnership comprises 14 institutions including 3 EU universities, prominent public EU research organization, 4 Serbian universities and 2 Albanian universities, enterprises and analytical instruments producer.

Dissemination Goals

The main goals of Project NETCHEM dissemination could be defined as follows:



Dissemination strategy and dissemination activities

The dissemination strategy of the Project is based on two main channels:

1. Internet communication (The most important means of the internet communication will be the project web pages; the public part will present the project in details to all interested, the private section accessible only via a user id/password will be restricted to Project partners and eventually other specialists involved in project realization or interested in project results and will improve the efficiency of communication. The second internet based means is data repository, where all relevant documents will be collected)

2. Organization of events (Various events organized by Project partners are considered as very effective way of dissemination; the Project outputs could be presented, described in details, discussed and interactively demonstrated to potential users).

To achieve the dissemination goals the following activities will be realized:

1. Setting and updating of the Project web site (DISS6.1)
2. Design, printing and publishing of promo material (DISS6.2)
3. Workshops at each PC university (DISS6.3)
4. Open days at each PC university (DISS6.4)
5. Round tables in enterprises (DISS6.5)
6. Summer School “Mass Spectrometry in EFSC” at University of Nis (DISS6.6)
7. Final Conference on EFSC through NETCHEM platform (DISS6.7)
8. Defining privileges and access authorizations to NETCHEM platform for consortium members and stakeholders (DISS6.8)
9. Dissemination of information about NETCHEM Project at meetings, seminars, conferences etc. with participation of NETCHEM team members

DISS6.1: Setting and updating of the Project website

Task leader: P1 – University of Niš

Estimated start day: 2nd month of 1st year (15/11/2016)

Estimated end day: 12th month of 3rd year (15/10/2019)

Language: English (Serbian, Albanian - maybe)

Description: The project web-site has been designed and launched and it is continually updated. It contains all relevant information about actual status of the Project, finished, on-going and planned activities. Information will be presented here:

Latest news and incoming events

- Following pieces

Detailed description of the Project: o Summary of the Project

- Description of Project partners including Project team members
- Characterization of aims and objectives of the Project
- Overview of activities
- Outputs of individual work packages
- Work plan of the Project
- List of contact persons in all partners' institutions
- Links to project outputs and important external links

Secondly Documents developed during Project realization

News containing information about approaching meetings; events

Gallery with photos from project meetings; templates for the presentations, reports and other developed documents

In future the site will also contain the link to the NETCHEM platform that will be created during the Project. For on-going updates of the website 6 teachers, 6 technical staff and 6 administrative staff will be (have been) trained.

Target group: Project team, Teachers and students at PC and EU partner institutions, Professional public, Stakeholders, Wide public

Measurement of success: Number of visits of the Project web pages (daily, weekly, monthly and total visits counter).

DISS6.2: Design, printing and publishing of promo material

Task leader: P1 – University of Niš

Due date: 12th month of 3rd year (15/9/2019)

Language: English (Serbian, Albanian)

Description: Within this activity the project logo was designed, reflecting the main goal of the Project, which is increasing of the effectivity and quality of education in instrumental analytical chemistry by remote access to sophisticated analytical instrumentation. The final version of the logo was fine-tuned via e-mail discussion and at its end it was approved and accepted by all project partners. This logo is presented at the Project website and also appears or will appear on all promo materials and Project outputs. Promo material (leaflets, flyers) informing about the Project activities and Project outputs have been/are/will be developed and distributed at the occasion of dissemination activities such as Open days, Round tables with enterprises, Workshops, Final conference, Summer school in Mass Spectrometry and also on other events where members of the

Project team will participate (conferences, seminars, workshops etc.). Publicity for modernized MSc and PhD study programs and CPD courses are/will be realized via the Project web pages as well as in printed form. It will be also popularized by concerned PC HEIs on their web pages and in their printed promo materials.

Target group: Attendants of events organized within the Project realization, Attendants of events organized by others with participation of Project team members, Teaching staff and students of concerned PC HEIs, Teaching staff and students of other PC HEIs

Measurement of success: Number of distributed promo materials

DISS6.3: Workshops at each PC University

Task leader: P10 – University of Tirana

Due date: 8th month of 3rd year (30/05/2019)

Language: Serbian, Albanian

Description: Workshops are an essential knowledge dissemination means. Consortium partners in partner countries will use these workshops to discuss, present and deliberate project related matters and findings. **Six workshops per each PC HEI will be delivered during each Project year** (i.e. 36 workshops in 3 years of the Project duration) with the scope to present the Project aims, objectives and also past, present and planned activities. These workshop will be dedicated to the transfer of knowledge in using OER as teaching toll to university staff and to popularization of NETCHEM platform. Another topic of the workshops will be the explanation and popularization of modernized MSc/PhD Study programme to students.

Target group: students, teachers, researchers and administrative staff from the institution, other stakeholders

Measurement of success: Number of participants at the workshops.

DISS6.4: Open days at each PC University

Task leader: P9 – Agricultural University of Tirana

Due date: September 2018 (i.e. one month before start of the new 2018/2019 academic year)

Language: Serbian, Albanian

Description: Open Days are regularly organized by most of the HEIs to provide an insight into studying at the University, to attract prospective students and to inform wide public about research results and about other activities of the institution. Within this Project each PC HEI will organize Open Day in 11th month of 2nd year of the project, in September – i.e. one month before start of new 2018/19 academic year. During this event special dissemination part dedicated to modernized study programs that will use OER as enhanced learning toll will be included. The information

about the CPD courses that could be offered during the following academic year at the University will be also provided.

Target group: prospective students, prospective participants of CPD courses, teaching and technical staff of the University, professional public, wide public

Measurement of success: Number of visitors at the Open Days

DISS6.5: Round tables at PC universities

Task leader: P7 –University of Novi Sad

Due date: 5th month of 3rd year (28/02/2019)

Language: Serbian, Albanian

Description: Each PC HEI will organize 4 round tables during the 7th and 8th month of 2nd year (i.e. in April and May 2018) and 4th and 5th month of 3rd year (i.e. in January and February 2019) – in total 24 round tables will be organized. The aim of workshops is primarily to create proactive strategy with business partners in the field of environmental and food safety control. During these events the benefits of NETCHEM for business sector representatives will be explained, together with the effect of the improvement in knowledge/skills in using analytical instrumentation on better quality of food products and environmental indicators control/detection. One of goals of the Project is preparation and realization of theoretical and practical courses to enterprises according to their actual needs (tailor-made courses). Possibility of distance learning for enhancing the professional competences and on-line consultation in real time will be also described.

Target group: professional public, stakeholders

Measurement of success: Number of participants

DISS6.6: Summer School Proceedings

Task leader: P1 – University of Niš

Due date: 8th month of 3rd year (30/05/2019)

Language: English

Description: The Proceedings will summarize the contributions of the Summer School in Mass Spectrometry, which is traditionally organized by University of Niš, but in 2019 it will be jointly organized by all EU and PC HEIs. All partners will be involved in the presentation of some topics/problems/case studies. The official language of the School will be English. Lectures will be prepared using NETCHEM platform. The School will focus on teaching and discussing modern knowledge in instrumental analytical technique (Mass spectrometry) to students, post-docs and scientists. It will be focused on both theoretical and practical aspects of mass spectrometry. The mass spectrometry experts coming from France, United Kingdom and Czech Republic will present their scientific approaches and also demonstrate the advantages of NETCHEM platform.

Target group: professional public

Measurement of success: Number of participants at the Summer School in Mass Spectrometry in 2019, Number of distributed Summer School Proceedings

DISS6.7: Conference Proceedings

Task leader: P6 – University of Belgrade

Due date: 11th month of 3rd year (April 2019)

Language: English

Description: At the end of Project duration the University of Belgrade will host and organize one-day scientific conference which will present the outputs of the project. The conference proceedings will summarize the contributions at this conference.

Target group: professional public, stakeholders

Measurement of success: Number of participants at the Conference, Number of distributed Conference Proceedings

DISS6.8: Memorandum of utilization of NETCHEM platform

Task leader: P3 – University of Greenwich

Due date: 4th month of 3rd year (January 2019)

Language: English

Description: After activity of setting the SQL data base as a web-accessible standalone application that will be finished in the 3rd month of the 3rd year (i.e. December 2018); in the next month (January 2019) the privileges and access authorization to NETCHEM platform for consortium members and stakeholders will be set. The Project management team will take care of the sustainability of the platform after project end, through creating the bilateral agreements between all consortium partners and P1-UN (Serbia) who is hosting NETCHEM platform in IT (hardware/software) and scientific (content) domain. The financial support for the platform, after project completion will be planned, through applications to other project grants (Horizon 2020) and/or membership of stakeholders. The aim is to encourage membership-based consortia to share costs and expertise of NETCHEM. The memorandum of utilization will be agreed and written.

Target group: project team, professional public, stakeholders

Measure of success: Agreement of all Project partners

Sustainability Activities of the NETCHEM Project

To fulfill the NETCHEM Project sustainability, following activities will be realized:

NETCHEM Project Web Pages

NETCHEM Project web pages (netchem.ac.rs) will remain active at least 5 years after the end of funding. Their updating will be ensured, within the dates as needed. All activities realized during this period (which will be defined further) will be announced there.

Responsibility: University of Niš

NETCHEM Platform will offer 3 kinds of services

1. SQL based system for EFSC data collection
2. WARIAL
3. OER in Partner Country universities.

From these services the SQL based system will be kept fully operational using data collected during the realization of the Project; uploading of new results in this period will be either rare or missing. The application of WARIAL will be realized on the base of agreement between bidders and operators of WARIAL instrumentation. Its main application is expected during realization of specialized courses running at the Partner countries HEIs based on WARIAL. In some special cases this could be offered as paid service. Open educational resources will be also kept fully operational more or less in the version actual at the end of Project funding.

Responsibility: University of Niš

Modernized MSc and PhD Courses in EFSC based on using OER and WARIAL

The courses modernized and/or developed during the NETCHEM Project are one of main deliverables. Each HEI institution in Partner Country is supposed to modernize at least 4 MSc and at least 2 PhD courses in the field of EFSC and to develop at least 2 CPD courses in the same field. The MSc and PhD courses are supposed to continue as a part of newly accredited study programs at these institutions.

CPD courses will after the end of Project funding continue to be offered to professional public, but as paid service, i.e. with registration fee. It is supposed that these money will be the main source of finances necessary to keep the sustainability activities operational.

Responsibility: All HEIs in PC

Expert Services

Wide and multidisciplinary know-how and extensive database built during the Project implementation will create excellent conditions for expert services offered to professional and wide public. These activities as paid services will become another source of money supporting Project sustainability.

Responsibility: All project partners

Financial Plan for the Sustainability

To assure activities of the NETCHEM Project after the end of funding following sources of money will be used:

1. Registration fee from organization of CPD courses

The organization of CPD courses developed during active part of the NETCHEM Project realization will continue after the end of Project funding, but the participants will pay the attendance fee covering the costs associated with the course realization and the profit that will be used to cover the costs related to sustainability.

2. Faculty Membership Fee

In case the finances obtained by organization of CD courses won't be sufficient further source will be NETCHEM Platform Membership Fee paid by all HEIs in Partner Countries.