



Enhancing the Bilateral S&T Partnership with Ukraine*Advanced Innovative Approach

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Abstract

The main goal of D4.22 (Report on the performance of the UA NCP system) is the evaluation of a Ukrainian NCP system efficiency based on the questionnaire analysis and information collected during the BILAT-UKR*AINA project lifetime.



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Deliverable D4.22 is based on the results and conclusions of the collected information from Ukrainian NCPs (questionnaire analysis) and its presentation:

The D2.12 document was elaborated by Krzysztof Trojanowski (representing Polish Academy of Sciences) with the support of Brian Warrington (BILAT-UKR*AINA external review panel)

Table of contents

Versioning and Contribution History	2
Executive Summary	4
1. Introduction	6
1.1 UA NCP Network	6
1.2 Target audience	6
1.3 Dissemination and Exploitation of the results.....	7
2. Methodology	8
2.1 Information Sources	8
2.2 Questionnaire	8
3. Summary of the Questionnaire Results	9
3.1 NCP organization	9
3.2. NCP services: dissemination of information: source of information, methods	11
3.3 NCP services: target group, contacts, data base, advisory and training services	13
3.4 National Cooperation (within NCP network)	14
3.5 International Cooperation (with foreign NCPs)	14
3.6 NCP challenges and expectations	15
4. Recommendations	16
4.1 Previous results	16
4.2 Summary and Recommendations (Results of Questionnaires)	19
5 Annexes.....	21
5.1 Questionnaire Model	21
5.2 List of Received Questionnaires	24
5.3 UA NCP list (status: May 2015)	25
5.4 UA RCP list (status: May 2015)	34

Executive Summary

The main goal of deliverable D4.22 (Report on the performance of the UA NCP system) was to perform a summary of the survey of the Ukrainian NCP system effectiveness in concern of selected aspects:

- Reach and support to Ukrainian organizations in terms of EU Framework Programme (Horizon 2020) participation
- Activity on the national level (e.g. cooperation with other NCPs, common initiatives and information share)
- International activities (active participation in the foreign events, cooperation with EU NCPs etc.)
- Organizational and financial aspects (structures, source of financing)

The data and information collected and analysed present the real situation (summary of the challenges, problems and expectations) providing the background to assess the effectiveness of UA NCP system and definition of the recommendations.

The analysis of the UA NCP system effectiveness was performed on the basis of “the sample” of the received questionnaires (about 50% of UA NCPs responded: 10 questionnaires collected out of 19NCPs listed, the data provision and collection was performed on voluntary basis)

The results became the basis for the analysis of the Ukrainian NCP system performance, summary, conclusions and recommendations stressing the most vital problems, challenges and corrective mechanisms.

The analysis identified and showed the problems and challenges of the effective NCP system activity. To the most important aspects belong problems of the cooperation with foreign NCPs and real involvement in the international activities (common events, brokering activities, study visits etc.).

The other problem and challenge to be developed is the coordination and cooperation within the UA NCP network, it requires the system activities and has to be supported and monitored. There other problems of the common nature were also identified : poor cooperation between research and industry sectors, in some cases language barriers, not sufficient state financing causing a problem with the quality of NCP services (high quality staff and employment)

The identified problems have to be solved and the relevant recommendations was prepared aiming at enhancement of international activity (cooperation with other EU NCPs, participation in EU events and networking activities)

Development and support of international activities becomes a priority in the nearest future and must be supported by organizational as well as financial instruments.

The description and analysis of the UA NCP system structure is an important part of the Report. Considering the aspects such as large geographic area, concentration of the specific

research and industry groups only decentralized system is the most relevant and must be supported.

Such system require more coordination efforts such as regular (at least annual) NCP staff meeting, internet tools for common use (data and information base), the performance monitoring system.

The coordination efforts and potential must be enhanced and requires systematic mechanisms and practices, the other EU countries NCPs have already such experience and proven instruments, the enhanced cooperation (e.g. study visits) will be helpful to manage that issue.

The D4.22 document has an open and public-access character being complementary to other Bilat-Ukraina deliverables.

1. INTRODUCTION

The main goal of deliverable D4.22 (Report on the performance of the UA NCP system) is to perform a summary of a survey of the Ukrainian NCP system efficiency in the regard of the specifically selected aspects (described in the questionnaire) of UA NCPs' activities.

The basis of the D4.22 report (analysis, summary and recommendations) was a sample of information collected from UA NCP representatives willing to cooperate and provide the data (10 questionnaires were collected).

For the content of the questionnaire please see annex: 5.1 Model of the questionnaire.

1.1 UA NCP NETWORK

Due to the very dynamic political scenario and changes in Ukraine (also in the terms of cooperation with EU: agreement with EU and change of Ukraine status from third country to ACC partner country) the structure of NCP network is evolving (changes within: 2014-2015). Nevertheless, the main problems, challenges and plans are still present.

Figures (May 2015):

- Number of UA NCPs: 19 covering the Horizon 2020 structure in general, many NCPs (e.g. Marie Curie Actions, Nano-Technologies, Health etc.) are represented by some organizations and people – it is due to geographical and specific thematic sub-area coverage
- NCP network is coordinated by 2 persons: Yegor Dubinsky (National Academy of Sciences) and Stella Shapoval (Ministry of Science and Education)
- All financial and legal aspects are allocated to 1 person: Olena Koval (Ministry of science and Education, National Information Center for Ukraine-EU S&T cooperation)
- 5 Regional Contact Points (RCPs, each represented by 1-5 organizations/persons) support the core NCP structure

The list of NCPs and RCPs are presented in the Annex 5.3 (List of NCPs) and Annex 5.4 (List of RCPs)

The figures presented above show the complex structure of the UA NCP system making the coordination and efficient activity a very challenging task.

1.2 TARGET AUDIENCE

The main beneficiaries of the D4.22 report are:

- EC (representatives developing and responsible for policies and Programmes for Ukraine/other countries);
- Owners and developers of EU MS/AC policies (adopted to specific needs).
- Ukrainian stakeholders (Academy of Sciences) and government representatives (ministries of education, science, economy) Project partners/consortium (for planning further activities – still within and beyond the BILAT-UKR*AINA project dedicated to NCP activities and cooperation at different levels)

1.3 DISSEMINATION AND EXPLOITATION OF THE RESULTS

The Report will be available to an open public and the results can be exploited in accordance to specific needs and goals:

- Public audience (the role, offer and structure of UA NCPS promoted by all possible dissemination activities, many organizations may be willing to act as volunteer contact points).
- The Report (information collected, analysis and recommendation) should be used by other “Third countries” in concern of NCP system performance. Several elements of the Ukrainian experience will be useful in other countries cooperating with EU.
- The Report can be used as information source by the next projects toward Ukraine aiming at development of bilateral cooperation
- The recommendations elaborated within the Report should be considered by public bodies (ministries, Academy of Sciences) while planning the financial and organizational support for the UA NCP system

2. METHODOLOGY

2.1 INFORMATION SOURCES

The information was collected through the questionnaire survey, the questions focused on the most important aspects such as typical and supportive activities, offer to customers, relations with other NCPs and cooperation at the international level (cooperation with foreign NCPs).

Some information was collected during the session dedicated to NCP (the session within Horizon 2020 Launching Conference in Kiev: 16th January 2014).

The session comprised of the presentation and discussion panel:

- NCPs' structures (models of the selected EU countries)
- Standard and supportive activities
- Polish model of activities (influence on research policy development-cooperation with ministries, successful instruments e.g. Centers of Excellence, National Technology Platforms)
- Reality: ideas, challenges and problems
- Discussion on applicability of the EU models in the dynamic Ukrainian reality (several problems, challenges and threats were discussed, most of the issues discussed came up also in the questionnaires collected later)

2.2 QUESTIONNAIRE

The questionnaire was developed (Krzysztof Trojanowski: PAN, Gabriela Cikikyan: ZSI) comprising the issues which are vital from the point of view of NCPs' activity.

6 main sections have been defined referring to the main aspects of the NCP activity. The structure of the questionnaire is presented below:

- **Section 1:** description of the NCP Organization
 - NCP (name, organization hosting the NCP team)
 - Names and short description of people involved in the NCP team
 - Financial issues: source of funding, budget for the planned activities
 - Internal and external training aiming to improve the competence of the involved NCP staff
- **Section 2:** description of dissemination of information methods and practices
 - Internet tools: own web site, activities on: Research and Innovation portal, Cordis-Europa portal, portals of EU projects dedicated to support the NCP activities
 - Active participation in national and international events (presentation on the current possibilities, brokering activities, knowledge and information sharing)
 - Organization of own events (info-days)
- **Section 3:** description of target group of the customers, methods of reaching and supporting them
 - Target group of customers and different used ways of supporting them

- Specificity of the main target groups and their experience in scope of FP Programmes (Horizon 2020)
 - Access to more detailed info (statistics, most active and successful organizations, leaders within the specific thematic area)
 - SMEs participation
 - Specific tools appropriate and dedicated to the customers and potential participants
- **Section 4:** description of the cooperation at the national level (with other NCPs)
 - Cooperation with other UA NCPs, type of cooperation and mutual support
- **Section 5:** description of the cooperation with foreign NCPs (international level)
 - Cooperation with foreign NCPs (type of the cooperation, which country NCPs)
 - Participation in NCP meetings in Brussels
- **Section 6:** description of the main NCP problems and expectations
 - Main problems of the clients (and ideas how to solve them)
 - Main problems of the NCP and expected support (EC, other NCPs, EU projects)

The detailed structure of the questionnaire is presented in the Annex 5.1 (Questionnaire model).

3. SUMMARY OF THE QUESTIONNAIRE RESULTS

This section summarises the results of the questionnaire survey and presents these using the same structure of the questionnaire as described above.

3.1 NCP ORGANIZATION

National Contact Points in Ukraine were established by the Ministry of Education and Science of Ukraine together with the National Academy of Science of Ukraine in December 2013 to facilitate integration of Ukrainian institutions into European Research Area. Their goal is to support all Ukrainian organizations (Universities, Research Institutes, Enterprises and SMEs) in participation in EU R&D Programmes (especially in Horizon 2020) to become a part of Europe scientific community.

These NCPs are based at Ukrainian universities, institutes of the National Academy of Sciences of Ukraine and other organizations such as NGOs (for instance Agency of European Innovations nominated as NCP to ICT area). The list comprises 30 entries for the various Horizon 2020 Programme sections, areas and functions.

Staff members of the NCP network (People involved, position, experience, research specialization, international activities participation, special achievements, recruitment procedure)

In 4 out of 10 NCPs there is only one person dedicated to work as the NCP for specific Horizon areas. In other NCPs the team consists of 2, 3 or 4 people. By the responses of the NCP institutions it appears that the NCP staff members have to a large extent a research and / or a higher education occupational background. They are engineers, specialists, with PhD, professor or Associate professor titles. Some NCP staff members represent the university authorities, for instance the position of Rector of the University or are Heads of research Departments.

Most NCP staff members in the network have experience in participation in European projects co-financed by European Commission from Framework Programmes. They were involved in international R&D cooperation – the majority participated in FP6 and FP7 projects, some of them participated already in FP5 projects. Most of the network members participated also in other European programmes such as Tempus, Erasmus, Erasmus +, while others used to participate in the CREST meetings.

Financing (How is the NCP work financed)

The organizations nominated as NCP finance their activities from different sources – the majority (6 of them) is funded from the state budget since 2014, which covers salary, materials, services and travel costs. Some organizations from the NCP network cover the financing from the budget of the host organization or from other, external sources, for instance international projects. Some NCP members are working voluntary – without any external financing and finance their services from own sources. Only a few member organizations perform the NCP activities along with their ordinary duties (research), working therefore on a part time basis.

The services for the NCP network

The NCP members did not have the possibility to attend the internal trainings, because such events were not organized for Ukrainian NCPs in 2014.

On the basis of responses of the NCP members, only a few NCP staff members have participated in external trainings, workshops or conferences related to Horizon 2020.

Most of the NCPs appreciated the training services carried out by the project BILAT UKR*AINA. Therefore the majority of NCP members mentioned attendance in project's trainings, webinars or Summer School on 'European RTDI policies, instruments and participation possibilities' held successfully in Kyiv on 15-18th September 2014. The aim of the Summer School organized within BILAT UKR*AINA was to provide a comprehensive hands-on training on project development and management in the frame of Horizon 2020. The Summer School focused on the following four scientific fields: ICT, Nanomaterials, Biotechnologies and Transport.

In the received questionnaires, one NCP representative mentioned also the services provided by the project: **JSO-ERA** (<http://horizon2020.lpnu.ua/en/regulations-ncp>) , Joint Support Office for Enhancing Ukraine's Integration into the European Research Area -JSO-ERA (which is already finished) and other mentioned participation in the training organized by

Ideal-ist project (<http://www.ideal-ist.eu/>) Ideal-ist is an international ICT NCP network, with more than 65 ICT national partners from EU and Non-EU Countries, such as Associated States, Eastern European Partner Countries and Mediterranean Partner Countries and emerging countries like China, Brazil, India, and South Africa), the training on Financial issues organized in April 2013 in Brussels. Also the trainings organized by **ETNA Plus** (<http://www.transport-ncps.net/etna-plus.html>) is to foster innovation in trans-national cooperation in Transport with a focus on promoting the active participation of new actors and regions in EU research calls and projects) were given by one NCP member: ETNA Plus Training on Horizon2020 Legal and Financial Issues (Madrid, Spain, 26/05/14, Anna Zmiievska), ETNA PLUS training on SME instrument and business plan writing (Athens, Greece, 30/09/14, Anna Zmiievska), ETNA PLUS training for Transport NCP “Shaping Transport Challenge” (Bratislava, Slovak Republic, 12/11/14, Igor Rybalchenko), ETNA Plus Webinar - H2020 Proposal Submission (04/07/2014, Lina Smovziuk, Anna Zmiievska), 1st ETNA Plus Webinar "Getting ready for H2020 first calls for proposals" (10/02/2014, Lina Smovziuk, Anna Zmiievska), ETNA+ ACADEMY (Bratislava, Slovak Republic, 12/11/14, Igor Rybalchenko),

It is also worth to underline, that the NCP members recognized the need to participate in the external **trainings** and are able (also without receiving any statement financing) to participate in such trainings abroad.

The majority of the NCP staff members underlined the need of trainings or workshops related to the following topics:

- Legal and financial aspects of H2020 project implementation
- Preparation of proposal and managing the project
- The creation of a strong consortium
- Partner search activities
- Finding a Project Coordinator
- Effective ways to promote Ukrainian organizations among the European organizations

Summary and remarks:

- The logic of the NCP structure is logical and justified (large geographic area-important aspect especially in Ukraine, localization of research centres and clusters)
- Establishing the NCP network with thematic specialization and research experience is a reasonable solution - more effective than the centralized NCP system)

3.2. NCP SERVICES: DISSEMINATION OF INFORMATION: SOURCE OF INFORMATION, METHODS

The main mission of the NCPs network for Horizon 2020 is to support Ukraine further involvement in European R&D Programmes and increase Ukrainian researcher participation in international collaborative R&I projects. To achieve this mission the NCP members use different instruments to fulfill the needs of potential participants.

Webpages

The majority of the NCP members have developed webpages and maintain them to present general information about NCP activities, Horizon 2020 program, open calls, scientific events, partners search support and consultations. They wish to provide for potential proposers an easy access to the most important European information sources about Horizon 2020 and to present the competences of Ukrainian organisations to the European research community.

Some NCP regularly update the webpage paying attention to the most relevant information to the specific area of their activity (like transport, energy or ICT) and publish new trends in European policy relevant to their specific areas as well as providing the information about major Ukrainian and European events dedicated to Horizon 2020 programme and its priorities.

Only a few organizations maintain the webpages in foreign languages (English and Russian), as well as making use of social media such as Facebook or LinkedIn as dissemination tool.

Events

The majority of NCP members organize regular Information Days (every 3-4 months) for the audience from the appropriate branch. Only few organize Information Days more often (e.g. every month). The main target groups for such events are research institutes, universities, SMEs, experts, PhD candidates, and students.

Most of the NCPs have practical experience with the Framework Programmes (FP7). Some of them participated as consortium partner at the stage of proposal preparation for FP calls, but only a few are experienced in proposal writing or have participated in an FP project.

Commission's portal

Most NCP members are familiar with the webpages of the European Commission – they use and promote information available on European Commissions portals: <http://cordis.europa.eu> and <http://ec.europa.eu/research/index.cfm> to find information about preparation of proposal. For most of the NCP members the portal is starting point for information about potential partners, current and future calls, examples of projects realization. Most make use of the portal to find required guidelines and documents, news and information about upcoming events

Only a few promote Participation Portal for NCP clients as a tool for information dissemination about their expertise and competence, for allocation requests for finding consortium partners for open calls and etc.

All relevant information gathered from CORDIS or Participant Portal are disseminated via NCP webpages or among the NCPs clients.

Other portals

The majority of NCP staff members regularly review the portals dedicated to appropriate research area or European NCP networks, provided for instance by projects e.g. Ideal-ist in

ICT area, NMPTeam-NMP area, net4society in Humanities areas, ETNA plus project in Transport, C-Energy+ in Energy area, etc. They also promote the services offered by these thematic NCP networks, for instance the partner search services offered by most of the European Horizon 2020 NCP networks.

Summary and remarks:

- Most of NCPs have their own web-sites and dissemination practices
- There is a need to standardize (preparation of 1 model of the web-sites) or 1 single “entry-point” (portal) to NCP network
- Discussion and some support on the use of the EU portals would be useful

3.3 NCP SERVICES: TARGET GROUP, CONTACTS, DATA BASE, ADVISORY AND TRAINING SERVICES

Only some organizations have a database of potential participants – they spread the information on upcoming calls through several channels. Some organizations have the databases, including contacts to leading universities of Ukraine, conducting research in the appropriate area (nanotechnology, transport, Energy, ICT), scientists, researchers, industry partners, PhD students, students. The majority of NCPs contacts is “branch specific” and located across Ukraine.

Access to statistical data

Most of the NCP members do not have access to information on statistics and organization data applying for selected calls. To gather statistical information they use the internet and use access to public sources of information published by the European Commission.

One NCP member made reference to an attempt to obtain such information from the EC which resulted in reply from the EC officer that such data cannot be made available to third country NCP.

The NCPs thus only have information relating to successful proposals as this becomes available on CORDIS.

Contacts

The majority of NCP members know the successful applicants as well as the most active organizations, researchers, experts in their thematic area/region. Some NCPs have broad contacts across the country – they have “branch specific”, but also regional contacts.

Summary and remarks:

- Regular access to statistics (UA participation in Horizon2020) and information on UA organization activity is of major importance and it is expressed as one of the main problems.

3.4 NATIONAL COOPERATION (WITHIN NCP NETWORK)

The majority of NCPs replied that they have contact and cooperation with other NCPs, however such cooperation is performed on a voluntary basis and there is a lack of more coordinated activities (e.g. annual meeting for NCPs with discussion panel on the summary, challenges and plans for the future).

There is only 1 example of cooperation agreement (between 2 Secure, Clean and Efficient Energy NCPs).

Information and experience sharing is based on informal contacts between people (mutual trust and support) and there are no formal mechanisms to promote such cooperation.

In several cases people meet at events such as conferences (accidentally).

Summary and remarks:

- There is a need to organize coordination activities for all NCP (e.g. annual meetings, discussion panel – internet tool)
- Promotion of practice of common events: event with the involvement of 2-3 NCPs on common topic (for example: ICT+NMP+Energy in Factories of the Future) – there are several possibilities of such cooperation (matter of “brain-storming”, dialogue and selection of proposals, possible awards)

3.5 INTERNATIONAL COOPERATION (WITH FOREIGN NCPs)

The issue of the international cooperation appears as a real and major problem, most of the surveyed NCPs have only occasional contacts or none at all with foreign NCPs. There are only few positive examples of such relations based on the involvement in common EU projects, regional or international events (ICT NCP, Ivan Kulchytsky and Infrastructures NCP – Marina Gorohovatska).

Some NCPs (Transport, ICT) actively participate in NCP dedicated CSA projects, such as Ideal-ist and ETNA.

Only a few NCPs benefitted from participation in the training sessions held by EU projects (e.g. Ideal-ist: Financial issues – April 2013, Innovation: June - 2014)

Summary and remarks:

- The International Cooperation issue appears as the weakest link in the spectrum of UA NCP problems
- Thorough analysis and quick decisions must be undertaken in order to enhance such cooperation
- Proposal of “know-how” and “good-practice” share with most active and successful NCPs (Ivan Kulchytsky, Marina Gorohovatska) – meetings of the “inspirational character... the cooperation with others and real Horizon 2020 participation is possible in Ukraine”

3.6 NCP CHALLENGES AND EXPECTATIONS

There are numerous issues which were identified and expressed by NCPs. The most frequent and important are as follows:

- Financial and legal system in Ukraine is different from most of EU countries systems
- Lack of foreign contacts and relations (due to language barriers, lack of travel and promotional activity funds)

UA NCPs problems:

- Lack of information on statistics and UA organizations participating in the submitted/winning proposals, which makes any analysis very difficult
- Lack of contacts and relations (especially foreign contacts)
- No efficient coordination of NCP network
- Lack of the state funds for the support of the international activities
- Insufficient funding of NCP activities

Concerning the proposal of improvement mechanisms, the following proposals were put forward:

- Centralized NCP trainings (regular training in Brussels giving a possibility to creation of new contacts and relations) provided that travel costs are covered (at least co-financed by EC)
- More networking projects (SSA/CA) dedicated to NCP cooperation
- EU Financial support to experts visiting Ukraine
- More efficient dissemination of materials (e.g. reports, policy roadmaps, Newsletters, leaflets etc.) dedicated to the selected group of beneficiaries and events held in Ukraine.

Summary and remarks:

- Several problems were identified and listed (according to the priority)
- A list of proposals and expectations is also presented
- In addressing the identified issues, resources (effort, funding, etc) should be allocated according to priority.

4. RECOMMENDATIONS

4.1 PREVIOUS RESULTS

Related studies on NCP structures, activities and good practice have already been undertaken in previous BILAT-UKR*AINA activities (D2.12 - Impact Analysis) and other EU projects (for example: IncoNet EECA). The results obtained through this study confirm most of the problems and challenges identified in previous studies as well as raising a number of new issues.

The key conclusions and the recommendations for UA NCP system from the mentioned sources are reproduced below:

4.1.1 D2.12: Impact Analysis (BILAT-UKR*AINA: www.bilat-ukraina.eu)

In parallel to standard NCP activities (dissemination on information on EU events and calls) the NCP involvement in additional activities must be stressed (Polish NCP system). For example: active participation in creation of new National Technology Platforms (especially within the sectors of high industrial and research potential) and their support, combination with local/regional/international activities, networking activities (knowledge and know-how share) in Ukraine as well as with cooperation other EU countries (NCPs, thematic networks).

Excerpt from the D2.12 document:

The NCPs should concentrate on the following activities at present and in the next few years:

- *efficient networking with a focus on topics with high potential (enabling the establishment the National Technology Platforms, effective participation in European technology Platforms);*
- *Presentation of methods and good practices of promotion dedicated to Ukrainian organizations as well as small research teams and single researchers (active use of Partner Search tools, effective participation in brokering events etc.);*
- *Current review of information (Horizon 2020, UE Programmes) on events and “Partner Search” mechanisms (web portals and data bases) and forward to interested organizations (especially most active in the selected area).*

In parallel to core NCP activities, the following supportive services should also be provided:

- *Search for regional cooperation programmes which enhance the cooperation between regions and have the potential also for educational and research relationships enhancement.*
- *Bilateral conferences dedicated to cooperation between selected research organizations and companies localized in the specific country or region, focusing on selected research topics depending on the potential of that region. Examples of such activity include “Days of Research and Technology, Poland-*

East” dedicated mainly to Ukraine, Belarus and other post-soviet researchers and specialists in the selected areas: Health, ICT, Environment, NMP, Trans-regional co-operation, and International Forum on Innovative Technologies for Medicine “ITMED”. Both events are held annually in Bialystok (Poland)

- *Search for programmes and calls dedicated to the cooperation with the selected countries/regions, one of the example: “Polish Aid” call of Polish Ministry of Foreign Affairs, open annually, supporting several spheres of mutual benefits (local, regional administration, environment protection, energy efficiency, educational and students cooperation etc.) between Poland and several selected countries (Ukraine has the largest budget in the group post-soviet countries)*
- *Other activities and initiatives (NCPs should be free to decide whether to initiate or join the selected ones).*

4.1.2 Centralized vs. decentralized NCP system

The detailed analysis of different NCP systems was presented. on the basis of:
Analytical Report for strengthening EECA NCPs/NIPs – Ukraine
IncoNet EECA: <http://www.inco-eap.net>)

The features (advantages and disadvantages) of systems were described concluding that there is no ideal system and due to the specificity of Ukraine (large area and distances, industry and research centres located regionally) the combined system should be applied. For example the support to financial and legal issues can be centralized, while the R&D areas such as NMP, ICT, Health, Food etc. must be supported by some organizations/NCP teams. The present NCP system corresponds to that need.

An excerpt from D4.6.b report highlighting the features of different NCP systems is reproduced below:

Decentralized system

Advantages

Better thematic expertise by the NCPs at the level of organizations and persons (by definition);

Easy access to a considerable pool of potential clients;

Easier to receive in-kind contribution from the host organization so as to ensure a basic operation when public funding for NCPs is not available.

Disadvantages

Possible conflict of interest (e.g. intent to keep valuable information for one’s own interest or for the organization’s vs disseminating valuable information to the entire research community of a country);

Little time available for NCP work if the person in charge of the NCP is an active researcher.

Centralized system

Advantages

Easier to reach a critical mass of NCP activities and experience for building a strong FP7 know-how;
Better visibility of the NCP system & services in the country;
Possible economies of scale since many NCPs are hosted by a single organization.

Disadvantages

Less thematic expertise;
Some thematic priorities risk to receive less attention (in comparison to the other priorities covered by the same organization) if they do not attract a critical number of clients.

The features and the operation of the Ukrainian NCP system are unique since it is based on a regional thematically horizontal structure which is different than the NCP systems presented above. Such a structure was mainly the result of the need to cover Ukraine's vast geographical area which presents a strong research capacity distributed in the majority of Ukraine's oblasts.

4.2 SUMMARY AND RECOMMENDATIONS (RESULTS OF QUESTIONNAIRES)

The questionnaire survey identified a number of achievements together with several issues and challenges facing the NCP system. In order to solve the most urgent and important problems these need to be prioritized and solution mechanisms proposed. The following recommendations are being put forward as possible lines of action:

- **Mechanisms of the efficient Coordination of the NCP network and cooperation between UA NCPs**

solution: plan of the annual meetings, incentives to enhance common initiatives (e.g. infodays, conferences etc.), communication and dialog platform (discussion forum) must be available to all NCPs

- **Cooperation with foreign NCPs**

solution: promotion of international activity (UA programmes supporting the travel to other countries-especially neighbouring countries), proposal of common events, use of the e.g. regional programmes aiming at enhancement of cooperation between (also beneficial to NCPs involved)

- **Enhancement of the cooperation between research and industry sectors**

solution: active participation in the brokering activities (own events, events organized by other UA NCPs, international events e.g. EC events-brokering sessions) , special focus on RTD challenges of the private business (companies), search for EU companies searching for international cooperation, promotion of successful examples of such cooperation

- **NCP network cooperation with governmental bodies (for example: ministries of science, economy, foreign affairs)**

solution: some effort of NCP network and coordinator must be dedicated to direct contact with ministry representatives, efficiently managed NCP network can support the preparation and development of UA (state) programmes supporting international and inter-sector (research-industry) cooperation.

- **Monitoring of the UA participation in Horizon 2020 Programme**

solution: establishment of the Ukrainian monitoring system, to monitor and regular analysis of UA participation in H2020, (data collected , stored and monitored by the NCP network coordinators)

In order to monitor the performance of the NCP system, and to assess the effectiveness of improvement actions, a number of metrics should be identified with a focus on the following objectives:

- enhancing the cooperation within the NCP network (common initiatives e.g. info-days, information-share and common consultancy activities etc.)

- enhancing the cooperation with EU NCPs (common initiatives, invitation to foreign NCPs on common activity e.g. brokering, networking) and ask for info on foreign events which might be useful to UA organizations (as well as NCP)

The parameters should be listed and a survey undertaken on an annual basis by the NCP Network Coordinator. The information collected will become the base for further “corrective” activities.

5 ANNEXES

5.1 QUESTIONNAIRE MODEL

Bilat-Ukr*aina Questionnaire on the performance of Ukrainian NCP

This questionnaire is a basis of the review of the Ukrainian NCP system and support to NCPs. Please respond to below questions (detailed and good quality information will enable the precise definition and preparation of external supportive tools)

1. NCP Organization

- a) NCP name (e.g. Nano-technologies)
- b) Name of the organization (contact person)
- c) Team (names of people involved, position + experience, research specialization, international activities participation, special achievements, recruitment procedure)
- d) How is your NCP work financed (own resources, state budget, other)
- e) What is your budget for the NCP activities? What does this budget cover?
- f) Are there any internal trainings/workshops for Ukrainian NCPs? Trainings of which topics would be most needed in order you can do your job better?
- g) Did you participate in any international training for NCPs under H2020? If so, in which?

2. NCP services: dissemination of information: source of information, methods

- a) Do you have your own website? If yes, which services do you offer here?
- b) How do you make use and promote information available on CORDIS portal: <http://cordis.europa.eu>
- c) How do you make use of Research and Innovation portal: <http://ec.europa.eu/research/index.cfm>
- d) Do you make use of the portals dedicated to specific NCP's
(mostly within SSA projects e.g. *Ideal-ist in ICT area, NMPTeam-NMP area, net4society-Huamnnities areas, etna-project-Transport etc.*)
- e) Do you participate and present your services at national and international events, how often – number of participations on annual basis
- f) How often do you organize info-days on specific open calls (own events, or organized by other organizations)

3. NCP services: target group, contacts, data base, advisory and training services

- a) Who is your main target group? Please prioritize (universities, research institutes, industry, SME, public administration)
- b) Do you have an own data base (or access to other data bases) of potential beneficiaries (organizations, researchers) used for e-mailing services :
Please present the number and type of contacts in the database divided into categories: universities, research institutes, industry, SME, public administration, physical persons e.g. experts, PhDs, students)
- c) Do your contacts have “regional” character” or “branch specific” character and are located in several locations of Ukraine
- d) How do you estimate their experience in Framework Programmes (beginners, familiar but never participated, experienced: trial to participate in FP projects, participation in FP project) - *express your opinion (describe shortly)*
- e) Do you have access to information on statistics, organization applying for selected calls
(having such info you can perform the identification of active organization, researchers, key-players)
- f) Do you know the most active organizations, researchers, experts in your thematic area/region?
- g) Do you know the successful applicants in your constituency (organization)? If you cooperate, in which way?
- h) How do you support new organizations and SMEs?
- i) Advisory services (in-person or online consultations): feedback/active support in the application process
(some basic statistics and info on your NCP services, especially when the thematic calls are open, on the monthly or yearly basis-it is up to your decision and convenience, what kind of information people usually need, any specific questions):
 - 1) How many consultations do you have in total,
 - 2) how many per email/phone/in person,
 - 3) are they one-off or continuous,
 - 4) type of advice – administrative, legal, financial or content-based, partner search, final proposal check, assessment of a project idea etc.. (please describe shortly)

- j) Training services on h2020 (info-days, workshops, consultancy meetings etc.), *please describe shortly their characteristics: open character or group dedicated events for your customers, if so what kind of events, target group or open character, how many participants, short agenda-topics, 1 or 2 days long event?)*
- k) Do you signpost the potential participants who require assistance on other EU matters (e.g. technology transfer, IPR, regional development etc) to other business support network services. If so, how often in the last year?

4. National cooperation (within NCP network)

- a) Do you cooperate with other NCPs in Ukraine
- b) Kind of cooperation (*type of common activities e.g. events, publications, contacts share, consultation, other support*)

5. International cooperation (with foreign NCPs)

- a) Do you cooperate with other NCPs (country, name of person)?
- b) Type of activity (common event organization or participation, consultation, brokering activities, other)
- c) Do you participate in NCP trainings (meetings) held in Brussels? Is it useful to your NCP? Benefits vs. expectations

6. NCP problems and expectations

- a) Main problems faced by your clients (e.g. EC formal rules, finance, language barriers, lack of contacts and foreign relations)?
- b) Main problems faced by your NCP

Please prioritize these main problems (starting from highest priority and importance)

- c) What kind of support do you expect from:
- European Commission
 - Foreign NCPs (e.g. neighboring countries, western Europe, others)
 - BILAT-UKR*AINA project: workshop dedicated to all Ukrainian NCPs- January 2015, specific problems, topics to be discussed, other type of support within BILAT-UKR*AINA (ideas?)

- other kind of support, please express your idea and needs (open question)

5.2 LIST OF RECEIVED QUESTIONNAIRES

NCP name (the activity area)	Name of the organization	Contact person
NANO-TECHNOLOGIES	National University of “Kyiv-Mohyla Academy”	Olena Chemodanova
TRANSPORT	National Transport University (Dmytrychenko Mykola Fedorovych)	Dmytrychenko Mykola Fedorovych
ADVANCED MATERIALS, ADVANCED MANUFACTURING AND PROCESSING)	Vasyl Stefanyk Precarpathian National University	Volodymyr Kotsyubynsky
INFORMATION AND COMMUNICATION TECHNOLOGIES	NGO "Agency of European Innovations"	Ivan Kulchytskyy
INFORMATION AND COMMUNICATION TECHNOLOGIES	International Projects Department is part of the Department of International Cooperation of the National Technical University of Ukraine "Kyiv Polytechnic Institute".	Prof. Sergiy Shukayev
RESEARCH INFRASTRUCTURES	National Academy of Sciences of Ukraine (NASU)	Marina Gorokhovatska
CLIMATE ACTION, RESOURCE EFFICIENCY AND RAW MATERIALS	Evgen Ogorodnyk	Anastasia Romanko
SMART, GREEN AND INTEGRATED TRANSPORT	National Aerospace University “KhAI”	Mr. Igor Rybalchenko
ENERGY – SECURE, CLEAN AND EFFICIENT ENERGY	A.M. Pidhorny Institute for Mechanical Engineering Problems NAS of Ukraine	Andriy Tarelin
ENERGY – SECURE, CLEAN AND EFFICIENT ENERGY	Ivano-Frankivsk National Technical University of Oil and Gas	Maksym Karpash

5.3 UA NCP LIST (STATUS: MAY 2015)

The NCP list of the EU Framework Programme for Research and Innovation «Horizon 2020»

(Approved by the Ministry of Education and Science of Ukraine, order № 285 of 13.03.2015)

№	NCP direction	Institution	NCP head	Contact details
1	National NCP Coordinator	Ministry of Education and Science of Ukraine	Stella Shapoval	Stella Shapoval Deputy Head of the International Cooperation and European Integration Department, Ministry of Education and Science of Ukraine 16 Shevchenko Blvd., Kyiv, Ukraine, 01601 Tel.: +380442878233 E-mail: s_shapoval@mon.gov.ua
		National Academy of Sciences of Ukraine	Yegor Dubynskyi	Yegor Dubynskyi Adviser to the Vice President, National Academy of Sciences of Ukraine 54, Volodymyrska St., Kyiv, Ukraine 01601 Tel: +380919123161 E-mail: inco.nep.ukraine@gmail.com
2	Access to Finance	Ministry of Education and Science of Ukraine, National Information Center for Ukraine-EU S&T cooperation	Olena Koval	Olena Koval National Information Center for Ukraine-EU S&T cooperation 180 Antonovycha St., Kyiv, Ukraine, 03680, Room 801 Tel/fax: +380445290332 E-mail: nip@fp7-ncp.kiev.ua
3	Legal and Financial Aspects	Ministry of Education and Science of Ukraine, National Information Center for Ukraine-EU S&T cooperation	Olena Koval	Olena Koval National Information Center for Ukraine-EU S&T cooperation 180 Antonovycha St., Kyiv, Ukraine, 03680, Room 801 Tel/fax: +380445290332 E-mail: nip@fp7-ncp.kiev.ua

4	Marie Curie actions on skills, training and career development	Lviv Polytechnic National University	Halyna Lazko	Halyna Lazko Lviv Polytechnic National University 12 Stepan Bandera St., Lviv, Ukraine, 79013 Tel.: +380322582746 E-mail: lazko@lp.edu.ua
		Donetsk National University	Oleksiy Savkevych	Oleksiy Savkevych Donetsk National University 21 600-richa St., Vinnytsya, Ukraine, 21021 Tel: +380634777620, +380504715448 E-mail: savkevych@donnu.edu.ua ; savkevych@gmail.com
		I. I. Mechnikov Odesa National University	Tetyana Stepanova	Tetyana Stepanova I. I. Mechnikov Odesa National University 2 Dvoryanska St., Odesa, Ukraine, 65082 Tel.: +380487317151; +380487023113 E-mail: tanya.stepanova@onu.edu.ua ncp.h2020@onu.edu.ua Web-site: horizon.onu.edu.ua
		Taras Shevchenko National University of Kyiv	Galyna Usatenko	Galyna Usatenko Taras Shevchenko National University of Kyiv 64/13, Volodymyrska St., Kyiv, Ukraine, 01601 Tel./fax: +380442393240 E-mail: galyna.usatenko@gmail.com
		Center for intellectual property and technology transfer of NASU	Karina Shakhbazyan	Karina Shakhbazyan Center for intellectual property and technology transfer of NASU 54 Volodymyrska St., Kyiv, Ukraine, 01601 Tel.: +380442396759 E-mail: karina@nas.gov.ua

5	European research infrastructures	Innovation center of NASU	Maryna Gorokhovatska	Maryna Gorokhovatska Innovation center of NASU 54 Volodymyrska St., Kyiv, Ukraine, 01601 Tel.: +380442396498 E-mail: mgor@nas.gov.ua
6	Nanotechnologies, advanced materials and advanced manufacturing and processing	I.M. Frantsevich Institute for problems of Material Sciences of NASU	Leonid Chernyshev	Leonid Chernyshev I.M. Frantsevich Institute for problems of Material Sciences of NASU 3 Krzhizhanovskogo St., Kyiv, Ukraine, 03680 Tel.: +380444242073 E-mail: chern@ipms.kiev.ua
		Vasyl Stefanyk Precarpathian National University	Kotsiubynskyi Volodymyr	Kotsiubynskyi Volodymyr Vasyl Stefanyk Precarpathian National University 57 Shevchenko St., Ivano-Frankivsk, Ukraine, 76018 Tel./fax: +380973803959, +380342231574 E-mail: kotsuybynsky@gmail.com
		National Technical University «Kharkiv Polytechnic Institute»	Khrypunov Gennadiy	Khrypunov Gennadiy National Technical University «Kharkiv Polytechnic Institute» 21 Frunze St., Kharkiv, 61002, Ukraine Tel.: +380577315691 E-mail: khrip@ukr.net
7	Health, demographic change and wellbeing	National Scientific Centre for Medical and Biotechnical Research of NASU	Peter Smalko	Peter Smalko National Scientific Centre for Medical and Biotechnical Research of NASU

				<p>54 Volodymyrska St., Kyiv, Ukraine, 01601</p> <p>Tel.: +380442396623</p> <p>E-mail: peter_smalko@voliacable.com</p>
		Uzhhorod National University	Tayisiya Symochko	<p>Tayisiya Symochko</p> <p>Uzhhorod National University</p> <p>46, Pidgirna St., Uzhhorod, Ukraine, 88000</p> <p>Tel.:+380503729950</p> <p>E-mail: tayiss@gmail.com</p> <p>Web-site: http://ncp-uzhnu.net.ua/</p>
8	Food security, sustainable agriculture, marine and maritime	Institute of Food Biotechnology and Genomics of NASU	Julia Krasylenko	<p>Julia Krasylenko</p> <p>Institute of Food Biotechnology and Genomics of NASU</p> <p>2A Osipovskaya St., Kyiv, Ukraine, 04123</p> <p>Tel.: +380674096292</p> <p>E-mail: y.krasylenko@gmail.com</p>
		Uzhhorod National University	Tayisiya Symochko	<p>Tayisiya Symochko</p> <p>Uzhhorod National University</p> <p>46, Pidgirna St., Uzhhorod, Ukraine, 88000</p> <p>Tel.:+380503729950</p> <p>E-mail: tayiss@gmail.com</p> <p>Web-site: http://ncp-uzhnu.net.ua/</p>
		I. I. Mechnikov Odesa National University	Tetyana Stepanova	<p>Tetyana Stepanova</p> <p>I. I. Mechnikov Odesa National University</p> <p>2 Dvoryanska St., Odesa, Ukraine, 65082</p> <p>Tel.: +380487317151; +380487023113</p> <p>E-mail: tanya.stepanova@onu.edu.ua ncp.h2020@onu.edu.ua</p> <p>Web-site: horizon.onu.edu.ua</p>

9	Secure, clean and efficient energy	A.M. Pidgorny Institute for Mechanical Engineering Problems of NASU	Andriy Tarelin	<p>Andriy Tarelin</p> <p>A.M. Pidgorny Institute for Mechanical Engineering Problems of NASU</p> <p>2/10 Dmytra Pozharskoho St., Kharkiv, Ukraine, 61046</p> <p>Tel.: +380573494721</p> <p>E-mail: tarel@ukr.net</p>
		Ivano-Frankivsk National Technical University of Oil and Gas	<p>Maksym Karpash</p> <p>Artur Voronych</p>	<p>Maksym Karpash</p> <p>Artur Voronych</p> <p>Ivano-Frankivsk National Technical University of Oil and Gas</p> <p>15 Karpatska St., Ivano-Frankivsk, , Ukraine, 76019</p> <p>Tel.: +380342242002</p> <p>E-mail: mkarpash@nung.edu.ua Archy.bear@gmail.com</p>
		Poltava National Technical Yuri Kondratyuk University	Клименко Юлія	<p>Iuliia Klymenko</p> <p>Poltava National Technical Yuri Kondratyuk University</p> <p>24 Pershotravneva Avenue, Poltava, Ukraine, 36011</p> <p>Tel.: +380 053 256 9894 +380 053 2273321</p> <p>E-mail: interoffice.pntu@gmail.com</p> <p>Web: http://2020.pntu.edu.ua</p>
		National Technical University «Kharkiv Polytechnic Institute»	Leonid Ulyev	<p>Leonid Ulyev</p> <p>National Technical University «Kharkiv Polytechnic Institute»</p> <p>21 Frunze St., Kharkiv, 61002, Ukraine</p> <p>Tel.: +380577076001</p> <p>E-mail: ulyevlm@mail.ru</p>

10	Inclusive, innovative and reflective societies	G.M.Dobrov Center for Studying R&D Potential and Science History of NASU	Olga Kot	Olga Kot G.M.Dobrov Center for Studying R&D Potential and Science History of NASU 60 Taras Shevchenko boulevard, Kyiv, Ukraine, 01032 Tel.: +380444821478 E-mail: olga.kot.jso@gmail.com
		National University of Kyiv-Mohyla Academy	Chemodanova Olena	Chemodanova Olena National University of Kyiv-Mohyla Academy 2 Skovorody St., Kyiv, Ukraine, 04655 Tel.: +380501639287 Tel./fax: +380444636974 E-mail: chemodanovaos@ukma.kiev.ua
11	Small and medium enterprises	Lviv State Centre of Science, Innovations and Informatization	Ivan Kulchytskyy	Ivan Kulchytskyy Lviv State Centre of Science, Innovations and Informatization 57, V Tchernovil St., Lviv, Ukraine, 79058 Tel.: +380509292396 E-mail: kul.ivan@gmail.com
12	Climate action, resource efficiency and raw materials	National Technical University of Ukraine «Kyiv Polytechnic Institute»	Evgen Ogorodnyk	Evgen Ogorodnyk National Technical University of Ukraine «Kyiv Polytechnic Institute» 37 Peremohy Ave, Kyiv, Ukraine, 03056 Tel.: +380444068475 E-mail: ogo55@ukr.net

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		Donetsk National University	Kostyantyn Dreval	Kostyantyn Dreval Donetsk National University 21 600-richa St., Vinnytsa, Ukraine, 21021 Tel.: +380 98 750 34 37, +380 63 477 76 20 E-mail: k.dreval@gmail.com
		National Pedagogical Dragomanov University	Nataliya Shulga	Nataliya Shulga National Pedagogical Dragomanov University Pirogova Str. 9, Kyiv, Ukraine 01601 Tel:+38 044 2341108 +38 044 2341108 E-mail: nataliya_shulga@nauka.in.ua
13	European Research Council	Institute of Molecular Biology and Genetics of National Academy of Sciences of Ukraine	Yanina Mishchuk	Yanina Mishchuk Institute of Molecular Biology and Genetics of National Academy of Sciences of Ukraine 150 Zabolotnogo St., Kyeve - 143, Ukraine, 03680 Tel.: +380 44 526 11 69 Fax: +380445260759 +380501777670 E-mail: mishchuk@imbg.org.ua
14	Future and Emerging Technologies	Taras Shevchenko National University of Kyiv	Galyna Usatenko	Galyna Usatenko Taras Shevchenko National University of Kyiv 64/13, Volodymyrska St., Kyiv, Ukraine, 01601 Tel./fax: +380442393240 E-mail: galyna.usatenko@gmail.com
15	Smart, green	National Aerospace	Igor	Igor Rybalchenko

	and integrated transport	University «Kharkiv Aviation Institute»	Rybalchenko	National Aerospace University «Kharkiv Aviation Institute» 17 Chkalova St., Kharkiv, Ukraine, 61070 Tel.: +380577884060; +380577884022 E-mail: iar@khai.edu www.khai.edu
		National Transport University	Mykola Dmytriev	Mykola Dmytriev National Transport University 1 Suvorova St., Kyiv, Ukraine, 01010 Tel.: +380442808448 E-mail: ntu.dnn@mail.ru
16	Information and Communication Technologies (ICT)	National Technical University of Ukraine «Kyiv Polytechnic Institute»	Sergiy Shukayev	Sergiy Shukayev National Technical University of Ukraine «Kyiv Polytechnic Institute» 37 Peremohy Ave, Kyiv, Ukraine, 03056 Tel.: +380444068019 E-mail: s.shukayev@kpi.ua
		National Technical University «Kharkiv Polytechnic Institute»	Mykola Tkachuk	Mykola Tkachuk National Technical University «Kharkiv Polytechnic Institute» 21 Frunze St., Kharkiv, Ukraine, 61002 Tel.: +380577076086 E-mail: tka@kpi.kharkov.ua
		NGO Agency Of European Innovations	Ivan Kulchytsky	Ivan Kulchytsky NGO Agency Of European Innovations 57 V. Tehornovil Str., Lviv, Ukraine, 79058 Tel.: +380509292396 E-mail: kul.ivan@gmail.com
17	Space	State Space Agency of Ukraine (SSAU)	Olena Kharytonova	Olena Kharytonova

				<p>State Space Agency of Ukraine (SSAU)</p> <p>8 Moskovska St., Kyiv, Ukraine, 01010</p> <p>Tel.: +380442816204</p> <p>E-mail: zaika@nkau.gov.ua</p>
		Ukrainian Astronomical Association (UAA)	Iryna Vavilova	<p>Iryna Vavilova</p> <p>Ukrainian Astronomical Association (UAA)</p> <p>3 Observatorna St., Kyiv, Ukraine, 04053</p> <p>Tel.: +380953945784</p> <p>E-mail: irivav@mao.kiev.ua</p>
18	Secure societies – protecting freedom and security of Europe and its citizens	National University of Kyiv-Mohyla Academy	Chemodanova Olena	<p>Chemodanova Olena</p> <p>National University of Kyiv-Mohyla Academy</p> <p>2 Skovorody St., Kyiv, Ukraine, 04655</p> <p>Tel.: +380501639287</p> <p>Tel./fax: +380444636974</p> <p>E-mail: chemodanovaos@ukma.kiev.ua</p>
19	Joint Research Centre	National Academy of Sciences of Ukraine	Yegor Dubynskyi	<p>Yegor Dubynskyi</p> <p>Adviser to the Vice President</p> <p>The National Academy of Sciences of Ukraine</p> <p>54, Volodymyrska St., Kyiv, Ukraine 01601</p> <p>Tel: +380919123161</p> <p>E-mail: inco.nep.ukraine@gmail.com</p>

5.4 UA RCP LIST (STATUS: MAY 2015)

The RCP list of the EU Framework Programme for Research and Innovation «Horizon 2020»

№	RCP direction	Institution	RCP head	Contact details
1	Nanotechnologies, Advanced materials and advanced manufacturing and processing	Yuriy Fedkovych Chernivtsi National University	Yuriy Khalavka	Yuriy Khalavka Yuriy Fedkovych Chernivtsi National University 2 Kotsubinsky St., Chernivtsi, Ukraine, 58012 Tel.: +380372584745 E-mail: y.khalavka@chnu.edu.ua
		Kyiv National University of Construction and Architecture	Vitaliy Ploskyy	Vitaliy Ploskyy Kyiv National University of Construction and Architecture 31 Povitroflotskiy Ave., Kyiv, Ukraine, 36680 Tel.: +380504693114 E-mail: geometry_kyiv@ukr.net
2	Food security, sustainable agriculture, marine and maritime	National University of Life and Environmental Sciences of Ukraine	Semen Tanchyk	Semen Tanchyk National University of Life and Environmental Sciences of Ukraine 12 Heroyiv Oborony St., Kyiv, Ukraine, 03041 Tel.: +380445278214 E-mail: tanchykSP@i.ua
		State Scientific Institution «Ukrainian Scientific Research Institute of Spirit and Biotechnology of Food Products»	Galushchenko Oleksandr	Galushchenko Oleksandr State Scientific Institution «Ukrainian Scientific Research Institute of Spirit and Biotechnology of Food Products» 3 Babushkina lane, Kyiv, Ukraine, 03190 Tel: +380674491329 E-mail: galushchenko@ua.fm

3	Secure, clean and efficient energy	Kyiv National University of Construction and Architecture	Vitaliy Ploskyy	Vitaliy Ploskyy Kyiv National University of Construction and Architecture 31 Povitroflotskiy Ave., Kyiv, Ukraine, 36680 Tel.: +380504693114 E-mail: geometry_kyiv@ukr.net
		National Mining University	Roman Dychkovskiy	Roman Dychkovskiy National Mining University 19 Karl Marks Ave, Dnipropetrovsk, Ukraine, 49000 Tel.: +38 0567446214 Fax: +38 0562473209 E-mail: dichre@yahoo.com
4	Climate action, resource efficiency and raw materials	National University of Life and Environmental Sciences of Ukraine	Dmytro Zasyekin	Dmytro Zasyekin National University of Life and Environmental Sciences of Ukraine 12 Heroyiv Oborony St., Kyiv, Ukraine, 03041 Tel.: +380445278041 E-mail: ndizdtv@gmail.com
		Kyiv National University of Construction and Architecture	Vitaliy Ploskyy	Vitaliy Ploskyy Kyiv National University of Construction and Architecture 31 Povitroflotskiy Ave. Kyiv, Ukraine, 6680 Tel.: +380504693114 E-mail: geometry_kyiv@ukr.net
		Yuriy Fedkovych Chernivtsi National University	Igor Shmarakov	Igor Shmarakov Yuriy Fedkovych Chernivtsi National University 2 Kotsubinsky St., Chernivtsi, Ukraine, 58012 Tel.: +380372584838 E-mail: igor.shmarakov@gmail.com

		Joint implementation division of State Environmental Investment Agency of Ukraine	Oleksandr Shevchenko	Oleksandr Shevchenko Joint implementation division of State Environmental Investment Agency of Ukraine 35 Mytropolyyta V. Lypkivskogo St., Kyiv, Ukraine, 03035 Tel/fax:+380445949116 E-mail: shaleksandr7@gmail.com
		National Mining University	Roman Dychkovskiy	Roman Dychkovskiy National Mining University, 19 Karl Marks Ave, Dnipropetrovsk, Ukraine, 49000 Tel.: +38 0567446214 Fax: +38 0562473209 E-mail: dichre@yahoo.com
5	Information and Communication Technologies (ICT)	Yuriy Fedkovych Chernivtsi National University	Oleg Angelsky	Oleg Angelsky Yuriy Fedkovych Chernivtsi National University 2 Kotsubinsky St., Chernivtsi, Ukraine, 58012 Tel.: +380372244730 E-mail: oleg_angelsky@ukr.net