



Ministry
of Education and Science
of Ukraine

Fostering Research and Innovation in Ukraine - The role of Science in the Ukrainian Innovations development

The Horizon 2020 Policy Support Facility in Ukraine: Implementation and results

MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE

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Peer Review of the Ukrainian R&I system under the Horizon 2020 Policy Support Facility

2016

Three areas of audit:

- Raise quality and relevance of the science base
- Open up Ukrainian R&I to the world
- Build a conducive framework for an innovation-driven economy in Ukraine

7

policy
messages

30

special
recommendations

2018

Done:

- National Council of Ukraine on Science and Technology Development is established and acts (24 members for Scientific Committee and for Administrative Committee)
- National Research Foundation is established and is preparing to start grant support of R&D in 2019
- Procedure for conducting state evaluation of scientific institutions is approved by the Decree of Cabinet of Ministers of Ukraine of 19.07.2017 No. 540
- Procedure for conducting state evaluation of the Universities in part of scientific activity is approved by the Decree of Cabinet of Ministers of Ukraine of 22.08.2018 No. 652

Recommendation	Activities
1. Strategical work in reforming and re-orienting the system of S&T in Ukraine	Establishment of the National Board of Ukraine for Science and Technology and the Scientific Committee of the National board. Two full sessions of the National Board.
2. National Research Foundation (NRFU)	Establishment of the NRFU, allocation of the 262 448 thousand UAH for NRFU provision in 2019
3. The international supervision and assessment of the National Research Foundation	Establishment of the supervising board of the NRFU Scientific Board which will attract international experts and means of international donors



Recommendation	Activities
4. An international peer review system for projects to support the excellence and internalization of Ukrainian science	Provisions will be introduced into NRFU documents and will be developed by Scientific Council of the Foundation along with the international expertise
5. Transparent international standards for research universities for every five years	The universities will be comparable on institutional capacity to the science in research entities. Institutional funding for R&D activities at the universities to be established on the base of transparent evaluation
6. Avoid “mushrooming” in profiling and merging universities and improve impact and critical mass	New principles of universities funding - financial stimulation

Recommendation	Activities
7. Using of acquired third party funding by research organizations and the Academies of Sciences	Own income obtained within core activity, charity aid, grants (including means incoming from domestic and foreign customers for realization of scientific, scientific and technical and innovation projects).
8. Streamlining of the current profile and concentration of priority focus for the National Academy of Sciences of Ukraine	Definition of the new priorities of Academy at different levels is expected from NASU.
9. Effectiveness of the National Academy of Sciences of Ukraine organizations through regular independent evaluation exercises.	The assessment of NASU institutes with engagement of peer experts based upon the experience of assessment system of Leibnitz Scientific Society (Germany).



Recommendation	Activities
10. Initiation of several science communication activities by the National Academy of Sciences of Ukraine	Conduction of a significant number of events for popularization of science (in particular, within the framework of Ukrainian Day of Science festival in May), publications in the popular scientific journal “Svitohliad” etc.
11. Broadening of diversity of Human Capital, with particular focus on age and gender balance by the National Academy of Sciences of Ukraine	There is only one woman present (the known scientist-demographer E. Libanova), and the age of prevailing majority of NASU presidium members is above 70. Situation can be changed after the electing of new structure of the NASU in 2020.
12. Promotion of publications in international journals and downsizing in-house publishing by universities and NASU	System of assessment of scientific results in NASU (and to greater extent, in MESU) institutions stimulates publications of Ukrainian scientists in the reviewed editions. The new procedure of drawing up a list of professional editions for publishing the results of PhD works

Recommendation	Activities
13. The Sectoral Academies of Science should be modernized drawing on the transformation model of the National Academy of Science of Ukraine	Currently new approaches in financing scientific and medical institutions of NAMS are introduced. However the implementation of this recommendation is slowed down by an obvious circumstance: uncertainty of the model of further transformation of NASU itself.
14. Restructuring or dissolution of the institutes in the sphere of MESU and other ministries depending on the obtained results of evaluation	The scientific institutions which will be referred to the 4th (lowest) category upon the results of certification will be recommended for reorganization or liquidation within 1 year.

Recommendation	Activities
15. Stimulation of research careers	the Ministry initiated inclusion to draft regulation on Presidential Fund of Support of Educational and Scientific Initiatives for Youth the program of support of Ukrainian “post-docs” – temporary research positions for young scientists in the universities or scientific institutions chosen by them.
16. Ensuring of less red tape and getting rid of inefficiencies and corruption	MESU working plan envisages introducing a number of mechanisms aiming at simplifying the administrative procedures. It is expected that researchers will be especially positive with new electronic system of registration of scientific projects, reports, etc. which will leave in the past the necessity to produce numerous paper copies.

Recommendation	Activities
17. Adequate accompanying support measures and initiatives for the opportunities offered by Horizon 2020	The network of 40 national contact points (NCP) and regional contact points (RCP) on all thematic areas of the program has been created. Regular monitoring of participation of the organizations of Ukraine in the program Horizon 2020 is carried out. Election of representatives and experts to Horizon 2020 Program committees. The participation of Ukraine in realization of bilateral international scientific and technical programs.
18. COST membership and participation of STI community in EUREKA	Consultations have been started already for acquisition of membership by Ukraine in the COST. After almost ten years' break the participation of Ukrainian universities in the innovative European program EUREKA was restored .

Recommendation	Activities
19. Opportunities for international STI exposure, especially for junior and middle-career researchers, according to their contribution to research advancement	The Ministry of Education and Science of Ukraine established a competition of projects of scientific works and scientific and technical (experimental) developments of young scientists. Annual Governmental grants for young scientists
20. Improvement of access to national and international scientific infrastructures	Creation of 8 centers of collective use of scientific equipment in higher education institutions. In 2019 MESU plans to add 4 new centers to the already created ones.

Recommendation	Activities
21. Increasing the cooperation with the scientific diaspora in order to exploit its potential for Ukrainian STI	On 20-22 October 2018 the Forum of Ukrainian Research Diaspora “Advancing science through international cooperation” was held under support of NASU, MESU, Ukrainian International Committee of Science and Culture at NASU, other Ukrainian and German organizations. The leading researchers of diaspora were engaged into different Ukrainian structures
22. The usage of the association to Horizon 2020 as a source for policy learning	The ministry expects that the alignment of national policies with the policy of European Research Area will be strongly assisted by the beginning of work of those Ukrainian representatives and experts in “Horizon 2020” Programme Committees.

Recommendation	Activities
23. International collaboration efforts in STI should be aligned with national priorities and strategies	MESU in cooperation with the academic community developed the Roadmap for Ukraine's Integration into the European Research Area. It is important to notice: this document, approved by the board of MESU, became the first such document submitted by the country which has Associate Member status in “Horizon 2020” program.
24. Elaboration of a cross-governmental Innovation Strategy and Action plan focusing on priority domains for science- and technology-based innovation	Pursuant the Governmental Action Plan, MESU together with academic and business community developed the draft Strategy of Innovation Development of Ukraine which after being agreed by other ministries will be submitted for consideration of the Cabinet.

Recommendation	Activities
25. Ensure representation of the Ministry of Economic Development and Trade and innovation actors in the National Board on the Development of S&T	The structure of Administrative Committee of the National Board is added with the Deputy Minister of Economic Development and Trade, Deputy Heads of State Administrations of Kyiv, Kharkiv and Dnipro oblasts, who, in line with their duties, are in charge of innovation development issues, the President of Scientific Park of Kyiv Polytechnic Institute and Deputy Director General of State Concern “Ukroboronprom”.
26. Establishment of a permanent working group on innovation together with consultative processes under the National Board on the Development of S&T.	Such working group will be created in the beginning of 2019 pursuant CMU Order from October, 17th, 2018 No. 776-r “About approval of the action plan on reforming the national scientific sphere” (sub point 7 of point 1 of the Action Plan).

Recommendation	Activities
27. Identification of the realistic and effective innovation policy instruments	The list of such instruments which is based on the best domestic, European and world practice, is defined in the already mentioned draft Strategy of Innovation Development of Ukraine.
28. Introduction of the innovation vouchers for internationalization and validation of innovation activities for companies	Execution of this recommendations' will become possible after the approval of new version of the Law of Ukraine on Innovation Activity which will be prepared based on the provisions of the Strategy of Innovation Development, after its approval.
29. Establishment of the science-industry mobility schemes	Such programs will be prepared within actions pursuant Strategy of Innovation Development and Strategy of Industrial Development (the preparation of this document is currently carried out by the Ministry of Economic Development and Trade).

Recommendation	Activities
30. Support of the cooperative projects between the public research sector and industry	The mechanisms of support of such projects will be provided in the new law of Ukraine “On the transfer of technologies” which preparation shall be carried out by MESU in 2019 based on the provisions of the Strategy of Innovation Development.

The experience of the two last years
(when yet still a lot was done!)
proves to that there is still much work to do and
such work will take more than one year.
**But Ukraine will certainly remain one of the
leading scientific states of Europe – it is
important just not to leave the chosen road of
European integration.**



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Thank you for your attention!