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ПІДПРИЄМНИЦЬКИЙ ПОТЕНЦІАЛ УНІВЕРСИТЕТІВ
ТА ПЕРСПЕКТИВИ РОЗВИТКУ ОСВІТНІХ ПРОГРАМ
В ГАЛУЗІ ІННОВАЦІЙНОГО ПІДПРИЄМНИЦТВА

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**INTEGRATION OF THE CHAIN «KNOWLEDGE-INNOVATION-BUSINESS»
IN THE ACTIVITY OF UKRAINIAN UNIVERSITIES**

**ІНТЕГРАЦІЯ ЛАНЦЮГУ «ЗНАННЯ – ІННОВАЦІЇ – БІЗНЕС»
В ДІЯЛЬНОСТІ УКРАЇНСЬКИХ УНІВЕРСИТЕТІВ**

**ИНТЕГРАЦИЯ ЦЕПОЧКИ «ЗНАНИЯ-ИННОВАЦИИ-БИЗНЕС»
В ДЕЯТЕЛЬНОСТИ УКРАИНСКИХ УНИВЕРСИТЕТОВ**

Annotation. The results of the Ukrainian Start-up schools in the context of the world innovation process are characterized in the work. Examples of successful start-ups of Ukrainian universities are given.

Анотація. В роботі охарактеризовано результати діяльності українських start-up шкіл у контексті світового інноваційного процесу. Наведено приклади успішних стартапів вітчизняних університетів.

Аннотация. В работе охарактеризованы результаты деятельности украинских start-up школ в контексте мирового инновационного процесса. Приведены примеры успешных стартапов отечественных университетов.

Today the development of a country is determined by speed of implementation the results of researches into a new technologies and technological products. For the development of innovative potential of Ukraine, youth entrepreneurship, promotion and implementation of student start-up through regional and university Start-up centers, business incubators and science parks seem to be very perspective.

So it is an interesting task to investigate the practice of stimulating youth innovation by creating scientific parks, Start-up schools, and business incubators at universities, describing the results of Ukrainian Start-up schools in the context of global innovation process.

The development of the modern economic system is characterized by the implementation of new technologies, science and technique and results of research and development. The main factor of innovation processes is the activity of scientists, business people and government. The legislation in Ukraine adopted a number of regulations that became the basis of a successful technology transfer and innovation process. In particular, it is Law of Ukraine "On state regulation of activities in technology transfer" from 14.09.2006. №143-V, that the technology market is defined as a system of relations between the supplier and consumer of technology[2]; Resolution of the Cabinet of Ukraine "On Approval of the research university" from 17.02.2010 p. №163, where research university is defined as a national higher education institution that has a substantial scientific achievements, makes research and innovation activity, provides the integration of education and science with a production, participates in international projects and programs and so on [6].

Today, the role of the university as an engine of economic development in the innovation sphere is strengthening. Higher education institutions transform mechanisms of supporting young entrepreneurs and promote youth entrepreneurship as a promising innovative activity. They contribute to the innovation process not only by upgrading training programs of students, designing training materials on subjects relating to the development, presentation and promotion of innovation, but also create science parks and start-up schools to support and promote students innovation projects. The interest of universities in promoting development of a start-up climate in

Ukraine is well-grounded, because young people and their new ideas should be the engine of innovation process, and it was repeatedly shown abroad. Such famous and successful start-up projects as Facebook, Dropbox, Snapchat, have been implemented by students, and it again proves the innovativeness of modern students and youth and confirms the need of a focused development of the environment for the creation and implementation start-ups of young scholars.

A successful example of a start-up school in Ukraine is "Sikorsky Challenge" [5]. It is an international project of NTU "Kyiv Polytechnic Institute named after Igor Sikorsky" and the company Be Next IT (Israel) with the support of venture capital fund "Sikorsky Challenge", Scientific Park "Kyiv polytechnic" and the Ukrainian Science and Technology Center (USA). The school positions itself as an environment in which creative young people receive the conditions to put their ideas into start-up projects, the ability of attracting investment for their development; it gives young and ambitious knowledge and skills, with which under the guidance of mentors, they will take the path from idea of a start-up to its first presentation to investors.

The purpose of creating the project "Sikorsky Challenge" is a development of innovative environment that helps to create more start-up projects and high-tech companies based on Ukrainian universities. The project creates centers in the universities of Ukraine, where experts «Sikorsky Challenge» consult managers and coaches of a newly created start-up schools, organizing education and training of students, researchers, engineers, inventors by their own programs and methods. The advantage of the project is the selection and promotion of cooperating with investors for successful start-up projects. There is also a possibility of cooperation with a business incubator «Sikorsky Challenge» to open start-up companies. Today, 10 start-up schools are opened by a program «Sikorsky Challenge» at universities in Ukraine where the basics of innovative entrepreneurship is successfully taught, and young scientists get a help in promotion, development and implementation of start-up projects. Every year «Sikorsky Challenge» holds a start-up festival, in which everyone can take part and show everyone's innovations. The participants have an opportunity to get support of investors and business angels to implement their own start-ups. Last year, 29 projects were the winners, 9 of them were the graduates of the school Sikorsky Challenge. The winners of the festival got from the investors and business angels more than \$26 million for implementation of their start-ups [4].

In Kiev National Economic University named after Vadym Hetman a business incubator is creating at the online platform "European inclusive innovative entrepreneurship". Its operation will be based on five-designed online courses, nationwide promotional tour and training sessions which will be held every six months. During training, the students will develop projects of the implementation of business ideas, including innovation.

The results of the start-up schools and science parks of Ukrainian universities found a recognition not only in our country but also abroad. In 2013, the start-up of KPI students presented a nanosatellite PolyITAN, which is now in space and performs the task of the international program of studying the climate change. Last year the project of a drone "Spekteytor" was proposed which received investments of \$13 million and adopted by the Ministry of Defense of Ukraine. A very revolutionary and innovative project, which was presented by Ukrainian student, is Lusiding, which is aimed at planning of human dreams. The project is now spreading rapidly in the global innovation space; it attracts investors from Europe and the United States [1].

The group of students Kyiv National Economic University under the mentoring of the director of the Institute of Higher Education KNEU, Doctor of Economics, Professor Antoniuk Larisa Leontievna become the winners of Enactus Ukraine 2014, presenting the results of successful implementation of three projects:

- ILearn – is a nationwide educational online platform for training children from orphanages and disadvantaged families for taking External independent evaluation. The project was developed and implemented in partnership with the Public Union "Osvitoriya" with the support of Vasyl Khmelnytsky Foundation "Way into the Future". The platform includes video lectures, tests and study materials, which are formed by the best teachers of KNEU in four subjects: mathematics, history, Ukrainian and English. Using the platform was conducted online workshops on questions which caused difficulties in learning. More than 500 graduates participated in the preparation for testing via the online platform, and 312 of them today are students of higher educational institutions;

- Green University – is the ecology education of the students and teachers of the University. The team developed a mobile app to search collection points for recyclables popularizing environmental responsibility among the population. As a continuation of the project containers for the collection of waste paper and waste batteries were put in the halls of Kyiv National Economic

University, hostels and socially active departments. In the 2015–2016 there were collected more than 4750 kg of waste paper and 45 kg of batteries;

- Spark – is a creation of student consulting company that provides services to individuals and legal entities.

During the World Cup international competition of student social projects Enactus in the Chinese Republic, which took place in late October 2014, the team Enactus KNEU won the 3rd place in the first division, losing to teams from France and Canada — the worldwide leaders in the realization of important social projects [3].

Innovation processes are an integral part of economic development and provided at different levels. The role of universities in the implementation of innovative processes today is relevant and fully justified, because there young people get knowledge and practical skills. Creation of science parks, business incubators and start-up schools promotes creativity, competitiveness and employability of university graduates and the expansion of cooperation between universities, innovation and investment companies for the commercialization of knowledge.

Ukrainian experience of creation and activities results of the start-up schools, business incubators and science parks at universities demonstrates the potential of Ukrainian youth and students in the development and implementation of innovation start-up projects. However, these structures have quite a small share in the innovative area of the country, which causes the need of stimulating and supporting the creation of start-up schools, business incubators and science parks at universities in Ukraine.

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ВИЩА ОСВІТА В КОНТЕКСТІ ІНДУСТРІЇ 4.0

ВЫСШЕЕ ОБРАЗОВАНИЕ В КОНТЕКСТЕ ИНДУСТРИИ 4.0

HIGHER EDUCATION IN CONTEXT OF THE INDUSTRY 4.0

Анотація. Досліджуються різні аспекти вищої освіти в контексті нового тренду розвитку економіки та суспільства «Індустрія 4.0».

Аннотация. Исследуются различные аспекты высшего образования в контексте нового тренда развития экономики и общества «Индустрия 4.0».

Abstract. Different aspects of higher education in the context of the new trend of development of economy and society «Industry 4.0» are studied.

Згідно з чинним законодавством інноваційним підприємством може називатися підприємство, яке розробляє, виробляє та реалізує інноваційні продукти (результат науково-дослідної та/або дослідно-конструкторської розробки) та/або продукцію (нові конкурентноз-