

**LIST OF SUBMITTED BUSINESS IDEAS  
FOR SELECTION AND PARTICIPATION IN THE HACKATHON  
UA BGROWTH  
JUNE 26-28, 2023**

within the framework of the project "Digital Blue economy and innovation Acceleration Network"

(Project acronym: DBAN ; project number 101077599)  
on the basis of Odesa State Agrarian University

No	The name of the business idea	Name of the applicant	Team composition, number of people
1	Solar Plex	Oleksiy Leonidovych Kurguzov	4
2	Blue Grid	Ihor Vyachelavych Karpenko	11
3	Garbage processing	Mykhailo Vladyslavovich Savchuk	3
4	Subregion Black Sea coast - pilot site for Ukraine's hydrogen strategy	Andrii Volodymyrovych Podolich	7
5	Renaissance	Olga Volodymyrivna Naidich	2
6	GREEN BEACH	Zyuzina Anastasia Yuryivna	4
7	Breath of life	Marukha Iryna Volodymyrivna	5
8	Recycling	Valery Oleksiyovych Arabinskyi	2
9	Creation of a multimodal logistics port center using blockchain technologies	Pidprihora Maria Serhiivna	4
10	" TechMaster X"	Volodymyr Serhiyovych Kovalchuk	1
11	Fisher - star	Nerubalna Anna Oleksiivna	1
12	Cafe with lavender	Domaskina Oleksandr Olehivna	4
13	Bioprep	Demyanenko Victor Serhiyovych	2
14	Mushli-Kom	Abgash Tetyana Andriivna	3
15	Veltrack	Maksym Yuriyovych Nikiforchuk	2
16	Mobile application	Zhyrchibaba Angelina Ivanivna	2
17	Help Health	Yuliya Oleksandrivna pike perch	2
18	Garbage sorting.Kindness. Ukraine	Budnikova Vladyslava Vitaliyivna	2
19	The spirit of Cossacks	Dovbush Inna	2
20	Observation deck	Marina Honcharuk	2

**LIST OF ADMITTED BUSINESS IDEAS FOR PARTICIPATION  
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**LIST OF JURY MEMBERS  
OF HACKATON UA BGROWTH  
JUNE 26-28, 2023**

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No	Full name of the jury member	Regalia
<b>1</b>	Vishnevsky Viktor Ivanovich	hydrologist, Doctor of Geography , Professor of the Department of International Tourism and Country Studies of the National Aviation University
<b>2</b>	Shevchuk Serhii Anatoliyovych	head of the hydrography sector of the department of hydrology and state water cadastre, Ph.D. , specialist in the field of reclamation and water resources, monitoring and assessment of water quality in water bodies, hydrological research and calculations, use and processing of remote sensing data in the design water management and reclamation facilities
<b>3</b>	Sushchenko Oleksandr Mykolayovych	Doctor of Economics, professor of the Department of Innovative Business Technologies, Kyiv National University of Economics. Researcher of the Environmental Research Center named after Helmholtz (Leipzig)
<b>4</b>	Kutishchev Pavlo Serhiyevich	Ph.D. in biological sciences , associate professor, director of the state institution of the production-experimental Dnipro sturgeon fish breeding plant named after Academician S.T. Artyushchik
<b>5</b>	Kvach Yuriy Valeriyovych	Ukrainian zoologist, parasitologist and hydrobiologist, specialist in invasive species of fish and their parasites, Doctor of Biological Sciences , senior researcher at the Institute of Marine Biology of the National Academy of Sciences of Ukraine
<b>6</b>	Gubina Anna Leonidovna	Ph.D. in legal sciences, associate professor of the department of economic theory and enterprise economics of OSAU
<b>7</b>	Yevtushok Olga Vasylivna	Doctor of Economics , associate professor of the department of marketing, entrepreneurship and trade of ONTU

**FINALISTS OF OF HACKATON UA BGROWTH  
JUNE 26-28, 2023**

within the framework of the project " Digital Blue economy and innovation Acceleration Network "  
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No	Finalist	The name of the business idea	Name of the applicant	Description of the business idea
1	1st place	Breath of life	Marukha Iryna Volodymyrivna	The essence of the business model is to equip rented premises and create conditions for providing a range of recreational services throughout the year with the aim of physical and emotional recovery of the population in war conditions: art and aromatherapy services , acupuncture, Sup -surfing, kayaking, sauna, vat, fitness classes, dancing, meditation, yoga, ecological tours. The business will involve partly personnel and specialists with the necessary work experience and licenses and permits to provide services. Tourists will have the opportunity to take part in the work of the volunteer movement for the restoration and enjoy eco-activities. Group classes with a psychologist on the shore of the estuary during sunset will be a key aspect of positive emotional fulfillment for tourists. Attracting customers will be carried out with the help of digital communication: website, chatbot, mobile application. The business model is focused on the economical use of natural resources of the estuary and is based on the principles of environmental sustainability: collection and sorting of garbage, use of environmentally friendly materials, popularization of ecological knowledge among tourists and local residents.
2	2nd place	GREEN BEACH	Zyuzina Anastasia Yuryivna	The business idea is to equip Odesa beaches with mobile gazebos with green roofs (the area of one gazebo is 4 m2) at the rate of 5 per one section of the beach. The roofs of the gazebos will be equipped with roofing in the form of soil completely covered with living plants. A Jackery SolarSaga 100W monocrystalline solar panel will also be installed on the roof with high conversion efficiency up to 23%. Such a panel is ideal for living in nature. For the convenience of booking such a gazebo, a mobile application will be developed and implemented, with the help of which it will be possible to reserve a green gazebo on the beach in advance for your comfort and enjoyment of the sea vacation. There are many restaurants located on the beach, which also benefit economically from increasing the flow of customers. In turn, it will allow to increase the profit of concluding a cooperation agreement with neighboring food establishments (cafes). The mobile application will be linked to their menu, so they will be able to conveniently serve mutual customers. Attracting customers: the target audience is the population of the city and tourists who rest on the beaches of Odesa. Attracting customers can be done through advertising campaigns in social networks, on external advertising surfaces, as well as through partnership programs with hotels and travel companies. The social effect of the implementation of the business idea is the restoration of jobs, an

				increase in revenues to the budget and social payments, as well as the implementation of one's own blue economy program by supporting the health of the marine ecosystem and attracting tourists.
3	3rd place	Subregion Black Sea coast - pilot site for Ukraine's hydrogen strategy	Andrii Volodymyrovych Podolich	<p>"Green Hydrogen"</p> <p>Ukraine has a significant natural potential for renewable energy production, which allows for the production of renewable hydrogen. The total potential of the average annual production of "green" hydrogen is about 505 billion m3, incl . Mykolayiv region - 19 billion m3 and Odesa region - 22 billion m3. Large-scale production and use of hydrogen in Ukraine, combined with the powerful development of renewable energy, will allow decarbonization of the energy sector, infrastructure sector and industry. The territory of the Black Sea cluster can become a site for the production of renewable hydrogen not only for its own clean energy needs.</p> <p>On the territory of the "Black Sea" subregion , the implementation of the most ecological technologies is expected, therefore, unlike the traditional concept of "green" ammonia, the project contains significant differences that increase its ecological attractiveness. Ammonia production at all stages will use exclusively renewable energy sources: wind, solar and biomass energy.</p> <p>To obtain hydrogen in electrolyzers, purified water from municipal sewage will be used. The biomass contained in the sewage sludge deposits will be utilized and used to obtain additional hydrogen through thermal steam-oxygen conversion, where excess oxygen from electrolysis processes will also be used.</p> <p>The concept of the project involves three green stages instead of one, and closed production of ammonia.</p>
4		Blue Grid	Ihor Vyacheslavovich Karpenko	<p>Project Blue Grid aims to develop and integrate automated technologies, such as drones, turrets and automated ground-moving devices, to improve efficiency and safety in various industries. Thanks to the ability to integrate with existing systems, Blue Grid facilitates the smooth adoption of new technologies, allowing organizations to easily adapt. The main areas of the project include the automation of control of drones, turrets and other devices, as well as control of various devices, such as sensors, IoT devices and automated equipment. Blue Grid also provides automatic collection and analysis of data from various sensors and creation of digital spatial models, which helps to analyze, model and visualize spatial data for better understanding and management of real objects and processes. As a result, Blue Grid opens up new opportunities for optimizing solutions in various fields, improving security and efficient collection and analysis of spatial information.</p> <p>Automated drones : Blue Grid can integrate with unmanned aerial vehicles ( drones ) for automatic collection and analysis of spatial data. Drones can be used for video surveillance, environmental monitoring, assessment of the state of infrastructure, as well as for assistance in emergency situations.</p> <p>Control automation: Blue The Grid can provide a common platform for controlling automated drones, turrets and other devices. It allows these devices to be coordinated using spatial data and intelligent analytics to improve efficiency and reduce risk. Integration with existing systems: Blue Grid can integrate with existing control and monitoring systems, helping organizations easily implement new automated technologies</p>

				<p>and ensure a smoother transition.</p> <p>Thus, Blue The Grid can become a powerful tool for the development, integration and control of automated drones, turrets and other devices that improve security, provide efficient data collection and allow the use of spatial information to optimize decisions in various industries.</p> <p>Digital spatial models, also known as digital twins, create virtual representations of the real world based on spatial data collected from various sources, such as satellite imagery, lidar, photogrammetry, and ground-based sensors. These models allow analysis, modeling and visualization of spatial data, which contributes to a better understanding and management of real objects and processes.</p> <p>Automation in the agricultural sector can significantly increase the productivity and efficiency of agricultural enterprises. As an example, Blue Grid can be used to implement automated systems in agriculture.</p> <p>Automated drones for field monitoring: Using Blue Grid, drones can automatically collect and analyze data on plant health, soil moisture, nutrient levels, and other important metrics.</p> <p>Automated agricultural equipment: Blue Grid can be integrated with automated tractors, combines and other agricultural equipment to manage operations and optimize processes such as sowing, tillage and harvesting. This allows to reduce labor costs and ensure more accurate execution of work.</p> <p>Intelligent watering and fertilizer management: Using sensor data and automatic analysis of Blue Grid, farmers can accurately calculate the need for irrigation and fertilizers for each section of the field. This makes it possible to provide optimal conditions for plant growth and increase the efficiency of resource use.</p> <p>Yield and risk forecasting: Blue The Grid can use spatial data, historical data and analysis of meteorological conditions to predict crops and identify risks such as pests, diseases or adverse weather conditions.</p>
5		Renaissance	Olga Volodymyrivna Naidich	<p>One of the main ways of developing sturgeon farming at the present time, along with the recovery and increase in the number of individual populations, is the wide deployment of commercial sturgeon farming. The final goal of these works is creation of full-system sturgeon farms of various technological types (garden, industrial, pond), and their orientation in two main directions of activity: 1) preservation and increase of sturgeon stocks in natural reservoirs, through mass stocking with young; 2) increase in the volume of commercial sturgeon products. Very promising are fish breeding technologies in closed water supply conditions , which allow reducing the burden on natural fish populations and can be used for the production of ecologically clean sturgeon products. One of the species of practical interest for stock farming is the sterlet. Research on the cultivation of sterlets in industrial conditions served as the basis for the development of biotechnology for the formation and exploitation of sterlet queen herds under regulated conditions. At the same time, there is still a need to develop new biotechnologies for extended reproduction and commercial breeding of sturgeon fish, including sterlets.</p> <p>We propose to develop and implement innovative methods of growing valuable species of fish for both commercial sturgeon breeding enterprises and sturgeon breeding plants. The partners are engaged in breeding and sale of finished products.</p>

6		Solar Plex	Oleksiy Leonidovych Kurguzov	<p>We offer the service of upgrading ordinary electric solar panels (PV) into electric thermal panels (PV-T). After modernization, the panel produces 10-15% more electricity and thermal energy, 3-4 times more than electrical energy. The overall efficiency of converting solar energy into consumer energy is 95%+ compared to 20% in a conventional PV panel. The development has 3 patents and an MVP, which has been successfully tested in real conditions for 3 years. The project is in TRL-7 status. Currently, we can produce 7 panels/day. Uniqueness - we do not make a panel from scratch, like competitors, but modernize ordinary panels. The solar energy market is steadily growing, even in Ukraine during the war. Laws have been passed in the EU and the USA requiring the installation of solar panels on homes. And the advantage of our panels is that we provide simultaneous provision of electricity and thermal energy from the sun. As you know, no house can exist without thermal or electrical energy.</p>
7		Garbage processing	Mykhailo Vladyslavovich Savchuk	<p>Business model for recycling raw materials is to redo unprocessed materials in the form of ready products which can be sold on the market. The main one essence business models is effective _ use resource in and optimization processes production to achieve profit. _ We will work with polygons garbage, not depending from supplies. Now there are many processing equipment almost for every type of raw material. We can process and sell some raw materials, and produce new product.</p> <p>We will make granules from waste. Pellets from PET material - to rubber crumbs (which can replace coal). Almost every good we will distribute by place of their appointment. Competitive advantages are that we will not to depend from sites of reception.</p> <p>_ Disadvantages - some raw can be deformed. The market share is very high, as many natural raw materials can be saved and we can produce that things, which only appears on the world market.</p>







Zoom Конференция

<b>Bogdan Avramc...</b> <small>Bogdan Avramchuk, National H...</small>	<b>Андрій Найда</b> <small>Андрій Найда</small>		<b>Ірина Маруха...</b> <small>Ірина Маруха, староста магист...</small>	<b>Igor Karpenko</b> <small>Igor Karpenko</small>	<b>Михаил Савчук</b> <small>Михаил Савчук</small>	<b>Таня Кобрин</b> <small>Таня Кобрин</small>
	<b>Тетяна Шабату...</b> <small>Тетяна Шабатура, професор з...</small>		<b>Конопельська...</b> <small>Конопельська Ольга</small>	<b>Volkov Oleksandr</b> <small>Volkov Oleksandr</small>	<b>Oleksandr Sush...</b> <small>Oleksandr Sushchenko</small>	<b>Пашук Стеф</b> <small>Пашук Стеф</small>
		<b>Анна Ляшенко</b> <small>Анна Ляшенко</small>		<b>Кристина волч...</b> <small>Кристина волчанова</small>	<b>Владислав Пол...</b> <small>Владислав Полшук</small>	
				<b>Заблючка Інна</b> <small>Заблючка Інна</small>		

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