Результати / Project Results



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Under the auspices of the



"Екосистемна адаптація до зміни клімату та регіональний розвиток шляхом розширення можливостей біосферних резерватів України" (2018-2021)

"Ecosystem-based adaptation to Climate Change and regional development by empowerment of Ukrainian Biosphere Reserves" (2018-2021)

Partners











Supported by:





based on a decision of the German Bundestag

Цілі проекту та бажані результати Project goals and desired outcomes











- I. Розширення місцевих знань про зміну клімату, її наслідки та адаптацію на основі екосистемного підходу (EbA) Increasing local knowledge on climate change, its impacts and Ecosystem-based Adaptation (EbA) by
- II. Розвиток стратегій, людського потенціалу та мереж шляхом розширення можливостей біосферних резерватів, що забезпечить їхню провідну роль Developing strategies, human capacities and networks by empowering biosphere reserves to assume a leading role
- III. Розробка політичних пропозицій щодо інтеграції принципів EbA в екологічне законодавство та управління довкіллям. Working out policy proposals for integrating principles of EbA into environmental legislation and ecosystem management.

Результати проекту / Project Results











- Веб-сайт
- Website
- Матеріали публікацій
- Publication materials
- Правові дослідження, робота на політичному рівні, Заклик до дій та Полісі-бріф
- Legal studies, Policy level work, Statement Paper and Policy Brief
- Конкурс ідей EbA
- EbA Idea Contest

Веб-сайт / Web Site





eba-ukraine.net

Матеріали публікацій **Publication materials**



Succow **Stiftung**

BIOSPHERE RESERVES AND CLIMATE ADAPTATI

DESNIANSKYI BIOSPHERE RESERVE NATURAL ECOSYSTEMS SET THE SC

use energy, which is primarily received from the sun and circulated in the system. Energy is captured, transmit transformed, stored and, above all, us perform work in the physical se They are created by living bei non-living resources as system cor nents. Thereby, ecosystems dev properties that sustain or even pror their continued existence as organizing bioreactors through

Results of ecosystem work are, example, the production and growth biomass, cooling and moisturing of landscape, and the creation of resou for many species of plants and anim Inherent need for the existence of ecosystem itself, but also are foundation of human existence well-being. Therefore, the consc preservation and development ecosystem services is one of the





Проєкти реалізуються в рамках Міжнародної кліматичної ініціативи (IKI), Федеральне міністерство довкілля, збереження природи та ядерної безпеки Німеччини (BMU) підтримує цю ініціативу на основі рішення,

прийнятого Бундестагом Німеччини. впроваджується Фондом Міхаеля Зуккова та Університетом сталого розвитку м. Еберсвальде з Німеччини разом з місцевими ГО.

Щоб дізнатися більше інформації про















German-Ukrainian Cooperation Project: "Ecosystem-based Adaptation to Climate Change and Regional Sustainable Development

Cover picture: Water buffalo husbandry as an alternative form of land use for wetlands

The project is part of the International Climate Initiative (IKI) and financed by the German Federal Ministr

ШАЦЬКИЙ

РЕЗЕРВАТ

пілотні проєкти.

РАМКАХ ПРОЄКТУ

АДАПТАЦІЯ ДО ЗМІНИ

КЛІМАТУ ТА СТАЛИЙ РОЗВИТОК ШЛЯХОМ

«ЕКОСИСТЕМНА

РОЗШИРЕННЯ

УКРАЇНСЬКИХ

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РЕАЛІЗОВАНІ В

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instead of drainange or after rewetting. Source: Copy free provided by pixabay.com

Fherswalde and Greifswald, 2021

Ecosystem-based Adaptation in Ukraine based on three UNESCO Biosphere Reserve cases

Climate Adaptation

Biosphere Reserves and





НАСАДЖЕННЯ

global change affecting a wide range of

different levels and sectors. The year 2019 was the second warmest

year in the 140-year record, with glob-

Citation: NOAA National Centers fo

Environmental Information, Climate

st a Glance: Global Time Series, pub

lished June 2020, retrieved on June 30

cag/https://www.ncdc.noaa.gov/cag/

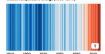
that climate change will have a dra-

plants, and animals. Direct impacts

ty composition, habitat structure, and

Research on future scena

Climate Change The biggest challenge for humanity



Climate change is not a scenario anymore. Humans are increasingly influencing the climate system by burning fossil fuels, cutting down forests, and practising increasingly intensive and large-scale agriculture. These harmful activities add enormous amounts of greenhouse gases to those naturally occurring in the atmosphere, leading, with a time lag, to global warming and other climate changes

tial condition for life. The globe of approximately 12,700 km thickness is surally significantly influenced by the biotors, which have significantly change rounded by the biosphere as if it were sphere. a macroscopic biofilm. This fragmented and delicate film, which even in the aramples of some of the most imports to less than 0.0005% of the earth's d. humans have been just some of the nu

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PE3EPBATIB:

ere center

Success Street

Planet Earth is unique. The interplay of produces our food, and thus forms the layer. But it is only in the last 150 years its properties allows water to exist on its basis of our existence. The composition of the atmosphere surrounding it ments have led to the incomparably

ameter, contains all known forms of life, merous actors in this delicate biosphere the last 50 years have without a doubt

en the most rapid transformation of biodiversity through land-use changes. pollution of air, water and soil, and the

ironmental problems, which has thus impacts due to their scale, intensity, of ecosystems to climate change as

the human relationship with the natural world. This escalating trend of energy even more damaging than the direct packs will further reduce the resilience.

(Reference period: 1981-2010)

become a symbol of our world today, and speed. They include habitat frag- well as the capacity to deliver essentia causes not only the climate but also the mentation and loss, over-exploitation, ecosystem services to humans. mentation and loss, over-exploitation, ecosystem services to humans.

from the average by +1.44°C. This val-ue is 0.11°C less than the record-value of +1.55°C set in 2016 and only 0.01°C higher than the third-highest value set in 2017 and 2015 (1.43°C). The five warmest years in the 1880-2019 record have occurred since 2015, white nine of the 10 warmest years have occurred



the state of both the biosphere and

amples of some of the most importan

Правові дослідження та політична робота Legal studies and policy work



Succow **Stiftung**

Заклик до дій (Еберсвальде 2020), розроблений спільно 26 учасниками міжнародного тренінгу «Екосистемна адаптація до зміни клімату»

Eberswalde Statement 2020 jointly elaborated by the 26 participants of the international training on "Ecosystem-based Adaptation to

Climate Change"

Полісі-бріф

Policy Brief

Introduction of the approach and principles of Ecosystem-based Adaptation to climate change in Ukraine's 2030 Strategy to Climate Change Adaptation

In Ukraine, climate change has increasingly negative impacts on ecological, socio-economic, and political systems and severely alters cultural landscapes. Shifting seasons, an increasing number and severity of extreme weather events (like storms, excessive precipitation, droughts, and heatwayes, etc.) are already causing harm to people and the nature of Ukraine. For example wildfires are one of the calamities that have been contributed by climate change. In the last years, wildfires have been increasing not only in Europe (see Figure 1), but also globally.



While significant efforts should be made to mitigate/stop further global warming, it is also essential countries. including Ukraine, to start adapting to changing climate to minimize potential harm to the

To implement the adaptation goal of the Paris Agreement and comply with the Action Plan for the implementation of the Concept of the State Policy on Climate Change, Ukraine has to develop and approve the country's 2030 Strategy on Climate Change Adaptation (Adaptation Strategy)

In autumn 2020, the Ministry of Environment of Ukraine has restarted the process of Adaptation Strategy development and the present paper is prepared as a submission from the Ecosystem based Adaptation (EbA)-Ukraine project to feed into the Strategy's development process.

The EbA-Ukraine project aims to introduce the approach and principles of Ecosystembased Adaptation to climate change in Ukraine. We think the strategy for adapting Ukraine to climate change must consider taking care of natural ecosystems' functionality and resilience. The regulating, provisioning, and cultural services that ecosystems provide are essential for the survival of humans and for ensuring further socio-economic development. For this, EbA comes handy as it allows to both decrease climate-related risks for people, using the potential of natural ecosystems, and, at the same time, protect these important ecosystems and biodiversity. In this context, the regulating ecosystem functions and services are of special

Within the EbA-Ukraine project, 9 EbA demonstration projects in 3 Ukrainian biosphere reserves were implemented, which are already showing promising results and can easily be replicated in other areas of Ukraine. However, strong political support is required to upscale the EbA approach beyond the project and introduce it at the national policy level, while funding, they are equipped with a highly qualified staff, who can promote sustainable approaches to nature use, raise environmental awareness, involve the youth and locals by varied activities and environmental education programs. The BRs are home to diverse landscapes and rich in the provision of important ecosystem services, increasing the region's visibility and attractiveness. By this, they offer perspectives for investments in the sector of sustainable land use and other businesses and therefore can have a positive influence on the socio-economic development of regions.

Recommendations

Based on the above mentioned, we recommend

- to include the approach and principles of Ecosystem-based Adaptation to climate change in the national Adaptation Strategy as the first step for further introduction of EbA approach in practice in Ukraine. The strategy should be supplemented by the Action Plan with the list of measures, which is necessary for the implementation of the Strategy and supported by sufficient financial resources and separate institutional guidance over its
- · to integrate EbA related research into programs and plans within scientific research activities for biosphere reserves
- · to support the development and implementation of EbA projects within the biosphere reserves, to further showcase EbA measures and collect scientific information on their effectiveness in all key ecosystems;
- · to support and strengthen Ukrainian biosphere reserves and to adjust respective legal framework and regulations for matching the UNESCO MAB biosphere reserve principles and requirements (such as zoning, integrated governance, etc.)
- . to introduce changes that are necessary to lay legal grounds for EbA in respective legislation and by-laws regulating nature-protected areas management, agricultural land use, forests management, and water basins management

The policy brief was jointly developed within the project iem-based Adaptation to Climate Change and Regional Sustainable Develop by Empowerment of Ukrainian Biosphere Reserves













Рекомендації / Recommendations



- підтримувати розробку та реалізацію проектів EbA в біосферних резерватах, для подальшої демонстрації заходів EbA, інтегрувати дослідження пов'язані з EbA у свої програми та плани та збирати наукову інформацію про їх ефективність у всіх ключових екосистемах
- to support the development and implementation of EbA projects within the biosphere reserves, to further showcase EbA measures, to integrate EbA related research into their programs and plans and collect scientific information on their effectiveness in all key ecosystems
- підтримувати та зміцнювати українські біосферні резервати та вдосконалити відповідну законодавчу базу та нормативні документи для відповідності принципам та вимогам біосферного резервату ЮНЕСКО МАВ (такі як зонування, інтегроване управління тощо)
- to support and strengthen **Ukrainian biosphere reserves** and to adjust respective **legal framework and regulations** for matching the UNESCO MAB biosphere reserve principles (such as zoning, integrated governance, etc.)

Рекомендації / Recommendations



- внести необхідні зміни для створення правових основ EbA до відповідного законодавства та підзаконних актів, що регулюють управління природоохоронними територіями, використання сільськогосподарських угідь, управління лісами та водними басейнами
- to introduce changes that are necessary to lay legal grounds for EbA in respective legislation and by-laws regulating natureprotected areas management, agricultural land use, forests management, and water basins management

Національний рівень / National Strategy Process



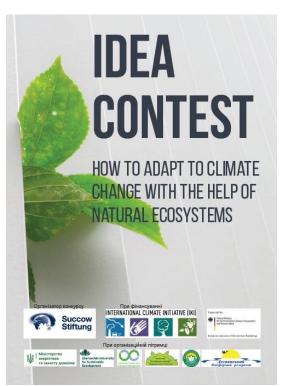
- Участь у розробці Стратегії екологічної безпеки та адаптації до зміни клімату до 2030 року (прийнята 20 жовтня 2021 р.) та Стратегії адаптації для сільського, лісового та рибного господарства (проект підготовлено в 2019 р.) / Contribution to development of National Adaptation Strategy (adopted on 20 Oct 2021) and Startegy of Adaptation for Agriculture, Forestry and Fishery (draft preperad in 2019)
- Eba, а також ПоР (подібна концепція), досі не згадуються в національних та регіональних політичних документах / Eba, as well as NBS (similar concept), still not mentioned in national & regional policy documents
- Проте є багато заходів, які відповідають Еba, які містяться в існуючих стратегічних документах, а також тих, що знаходяться на стадії розробки (наприклад, проект Державної стратегії управління лісами України до 2035 року) / However, there are many measures that are in line with Eba found in existing strategic documents as well those under development (e.g. draft of National Strategy for Forest Management of Ukraine untill 2035)





Адаптація до зміни клімату на практиці / Adaptation to Climate Change in Practice

- Лютий 2020: Запуск Конкурсу ідей щодо EbA заходів в 3 біосферних резерватах / February 2020: Launch of an Idea Contest for EbA activities in the 3 BRs
- Двоступенева процедура відбору для забезпечення відповідності підходу EbA / Two-round selection procedure in order to ensure compliance with Eba approach
- Загалом отримано **29 заявок**, з яких 20 потрапили до фінального раунду оцінки / *In total* **29 application** received out of which 20 passed to the final evaluation
- Травень 2020: обрано **9 переможців по 3 найкращі ідеї** на кожен резерват / May 2020: **9 winners** of the contest were selected **3 best ideas** per BR

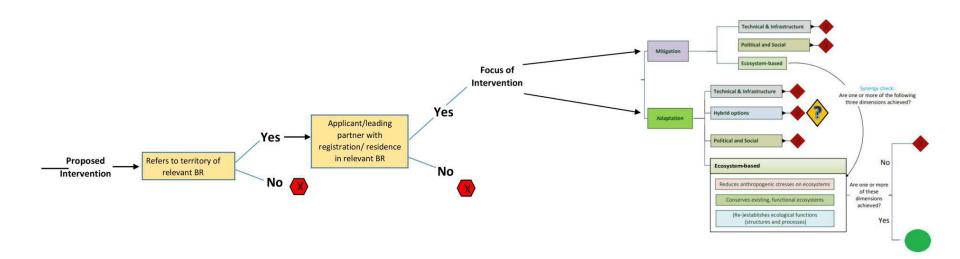






Процедура відбору / Selection procedure

1st Round of Application Assessment







Процедура відбору / Selection procedure

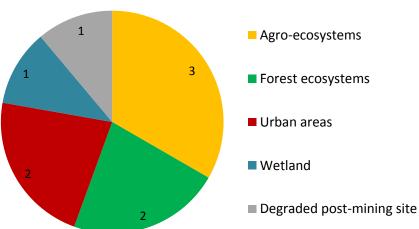
Category	Nr.	Criteria	Max. Points
Ecosystem-based	1	Understanding of ecosystems, processes, valuables	20
		Number/Amount of ecosystem types covered by Intervention	15
		Enhancement of ecosystem services	15
		Usage of traditional methods/ knowledge	10
		Benefits for ecosystems from the intervention	15
Spatial	2	Size of project area	15
		Clearly defined project area	10
		Positive effects on neighbouring territories	10
		Potential to scale up the project on neighbouring territories	15
		Potential applicability on other territories	15
Political, social	3	Support from decision-makers	15
		Network of partners and stakeholders	20
		Ability to find compromises with local administration, business, stakeholders	15
		Visibility of EbA measures by practical examples	20
		Transparency of activities	15
		Potential level of acceptance	10
		Promotion of the concept of "biosphere reserve"	15
		Justice of adaptation benefits / co-benefits to vulnerable social groups	10
Economic	4	Economic benefits for region/stakeholders	20
		Opportunities for joint business/ activities	10
		Promoting (ecological) image of the BR	15
Feasibility/ Capacities	6	Feasible within the scheduled project period	20
		Professional capacities	15
		Material/ technical resources/ infrastructure	20
		Legal Capacities (ownership of land, other relevant rights)	20
		Adaptability to change	10
Cost calculation	7	Level of concretness of cost calculation	15
	-	Consistency of cost calculation	15
		Cost-benefit ratio	20
		Possibility of own co-funding	10
Credibility	8	Experience in the field Formal composition of project proposal	15 15
Result	9	Concreteness of expected results	15
		Possibility to measure key Indicators and results	15
		Potential to self-maintaining of intervention in ecosystems in a long-term perspective	15
			505
Max. Points			525

Конкурс ідей та пілотні проекти / Idea Contest and Pilot Projects



Заявки / Applications

- Зазвичай подані кількома співвиконавцями / Usually submitted by consortium of stakeholders
- Отримано заявки від фермерів, науковців, вчителів та викладачів, представників НГО, органів місцевої влади та простих мешканців / Applications received from farmers, researchers, teachers, local authorities, NGO members, local citizens
- Соціальна складова присутня у багатьох заявках / Social component was present in many applications

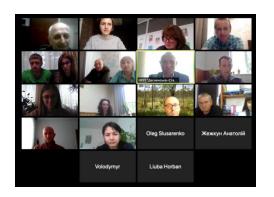






Хід реалізації / Implementation timeline

- Листопад-грудень 2020: Підписано контракти з переможцями Конкурсу ідей / Nov-Dec 2020: Contracts with the contest winners were signed
- Березень 2021: Початок польових робіт з реалізації пілотних проектів / March 2021: start of the field work of pilot projects
- Постійна оцінка реалізації проектів шляхом надання звітів, регулярних он-лайн зустрічей та консультацій, а також моніторингу результатів в полі / Regular evaluation of projects' implementation through submission of reports, on-line meetings and consultations + monitoring field visits
- Листопад 2021: проведено підсумкові семінари за результатами реалізації пілотних проектів / November 2021: final workshops on results pilot projects' implementation were held in 3 biosphere reserves

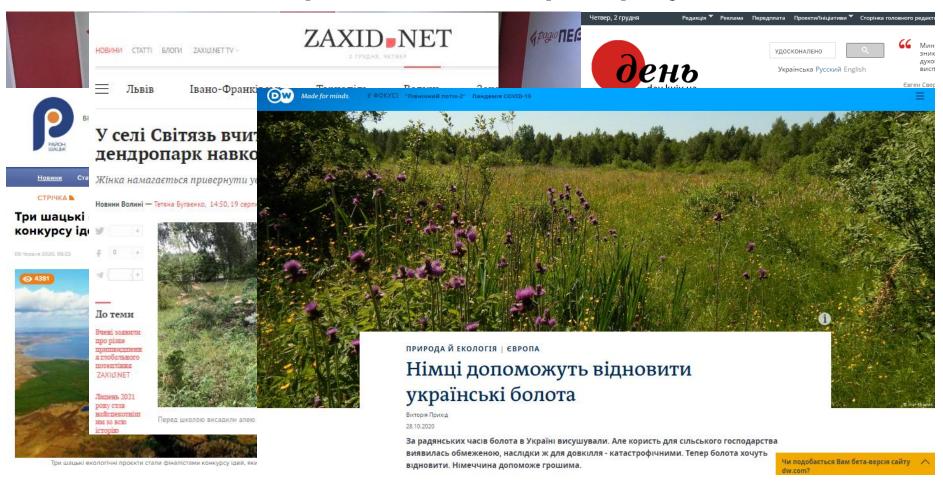






Конкурс ідей та пілотні проекти / Idea Contest and Pilot Projects

Публікації у медіа про пілотні проекти / Media publications on pilot projects







Короткий огляд пілотних проектів / Pilot projects at a glance

