



REPORT OF SURVEILLANCE PROJECT ON GREEN AND DIGITAL TRANSFORMATION OF BATKEN STATE UNIVERSITY



МИНИСТЕРСТВО
ОБРАЗОВАНИЯ И НАУКИ
КЫРГЫЗСКОЙ РЕСПУБЛИКИ



Co-funded by the
Erasmus+ Programme
of the European Union



Hochschule für Angewandte
Wissenschaften Hamburg
Hamburg University of Applied Sciences



Introduction

- The report of surveillance project constitutes a component of the ongoing project titled “Digital and Green Universities for the Sustainable Development of Kyrgyzstan”, identified by the acronym GREENKG, under the ERASMUS-EDU-2023-CBHE call, specifically addressing the ERASMUS-EDU-2023-CBHE-STRAND-3 topic.
- The project addresses the need of universities to increase the knowledge and capacities of HEIs to build and implement green and digital university policy, by supporting the definition, implementation and monitoring of reform processes that is going to be done by development of a national Green and Digital University Model.



Introduction

- The report of the surveillance project is based on the continuation of the online survey on current green and digital capacities of partner universities with SWOT and comparative analysis of the HEIs, conducted online in February 2024; smoothly continuing the agenda of online training sessions, study tour to Vilnius, and ToT workshops conducted at the Issyk-Kul Lake, Cholpon-Ata town.
- The report of the surveillance project will provide a background for the objectives of WP2 and will help with the further development of a Green and Digital University Model, development of a GDU roadmap, creation of GD offices, development of a mandatory interdisciplinary course on Green Dimensions and development, and one elective locally tailored microcredential module per each KG partner university in order to achieve the project objective.



Members of the working group

1. Aidarbek Gyiazov, Rector
2. Zhumabek Abdipatta, Vice-rector for International Relations and Development.
3. Isa Usonov, Head of International and academic mobility department.
4. Beksultan Kalykov, Head educational and informational department.
5. Bekbolot Orozov, Director of Busyness Incubator.
6. Musa Usonov- Vice-Rector for Economics.
7. Asalkhan Arstanova- Head of Chair.
8. Feruza Daovlatova- Researcher for Green economy.
9. Myktybek Nasyrov- Head of Scientific research office.
10. Akylbek Alikhanov- Senior accountant.
11. Aidana Musurman kyzy- Secretary.



Structure of the report

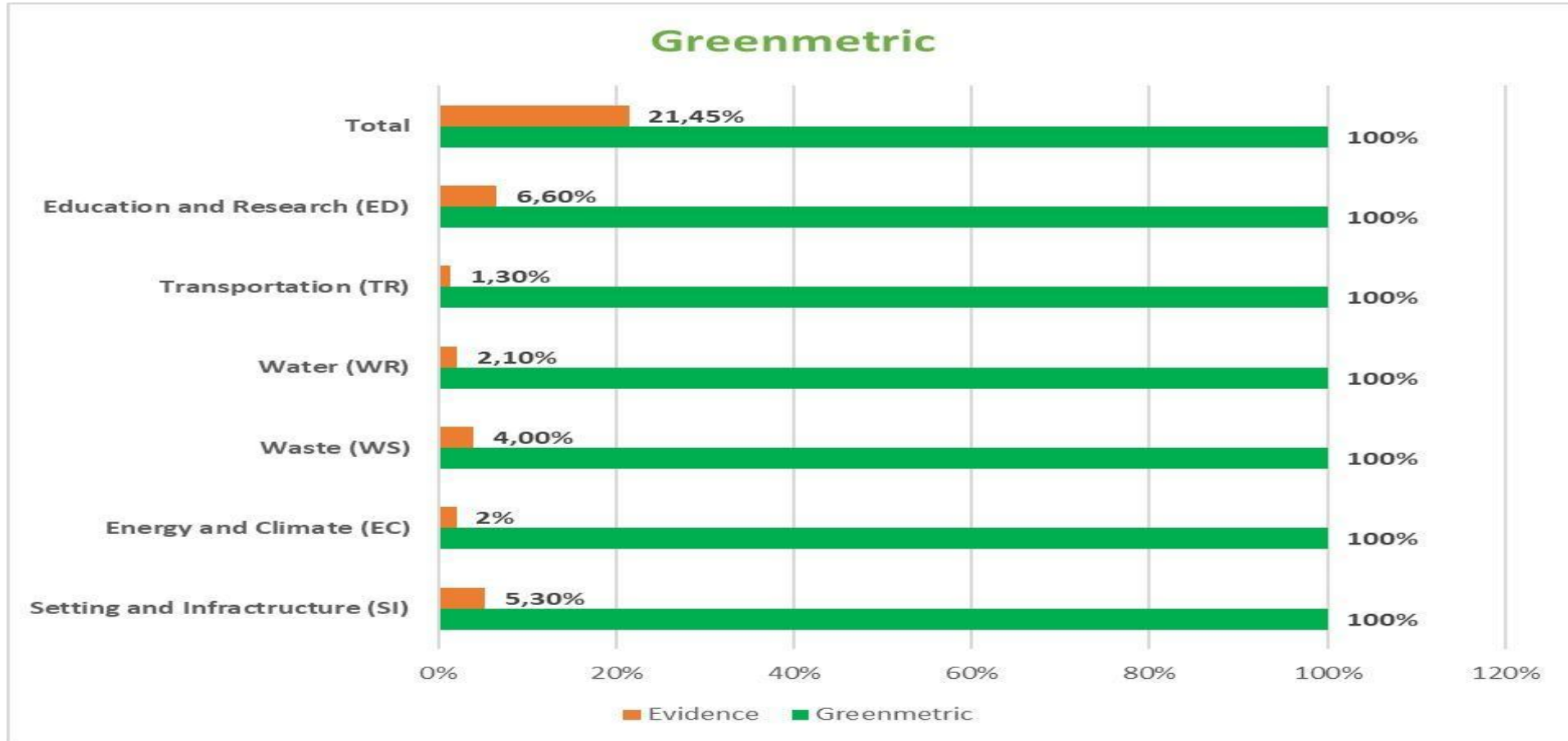
1. Main results of the survey on current green and digital capacities of the Batken State University with SWOT analysis, conducted online in February 2024
2. Best practice of current activities of green and digital transformation of the BatSU
3. Horizontal analysis of curricula and processes in Green Dimensions of the BatSU
4. Development of a GDU roadmap of the BatSU
5. Development of modules on Green Dimensions of the BatSU
6. Digitalization of the Batken State University administrative processes
7. Building Green Batken State University Infrastructure
8. The next steps of the Batken State University towards a green university and digital transformation.
9. Summary and final conclusions



Results of the survey on current green and digital capacities of the Batken State University



Результаты исследования текущих зеленых и цифровых возможностей БатГУ





Results of the survey on current green and digital capacities of the Batken State University



Результаты исследования текущих зеленых и цифровых возможностей БатГУ

SWOT ANALYSES

<p>Strengths</p> <ul style="list-style-type: none"> • Electronic Document Management: Reduces paper consumption, enhances efficiency, and lowers the university's carbon footprint. • Student Internet Portal: Provides a centralized platform for remote access to resources and communication, promoting flexibility and sustainability. • Electronic Scheduling: Eliminates paper waste and administrative burden, allowing real-time data updates and promoting sustainability. 	S	W	<p>Weaknesses</p> <ul style="list-style-type: none"> • Lack of Qualified IT Specialists: Hinders the full utilization and maintenance of digital infrastructure. • Weak Knowledge of Digital Tools: Insufficient understanding among staff can impede the implementation of digital solutions. • Insufficient Sustainable Infrastructure: Limits comprehensive sustainability initiatives, such as renewable energy and efficient waste management.
<p>Opportunities</p> <ul style="list-style-type: none"> • International Grants: Funding for infrastructure modernization, research projects, and capacity-building initiatives. • Partnerships in Collaborative Research: Access to advanced research and global expertise in green technologies and digital transformation. • Student Exchange Programs: Provide valuable hands-on learning and foster intercultural cooperation in sustainable development and digital innovations. 	O	T	<p>Threats</p> <ul style="list-style-type: none"> • Rapid Technological Progress: Risk of existing infrastructure becoming obsolete without continuous investment. • Cybersecurity Risks: Increasing reliance on digital systems exposes the university to cyber threats. • Regulatory Changes: Evolving compliance requirements may disrupt operations and hinder progress in sustainability and digital initiatives.



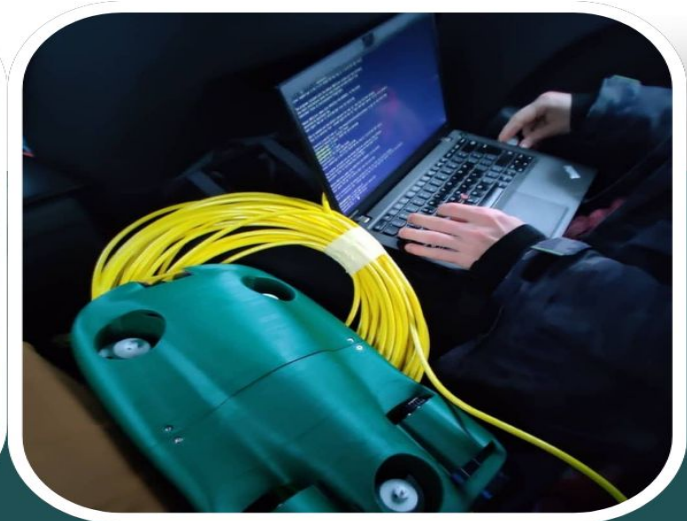
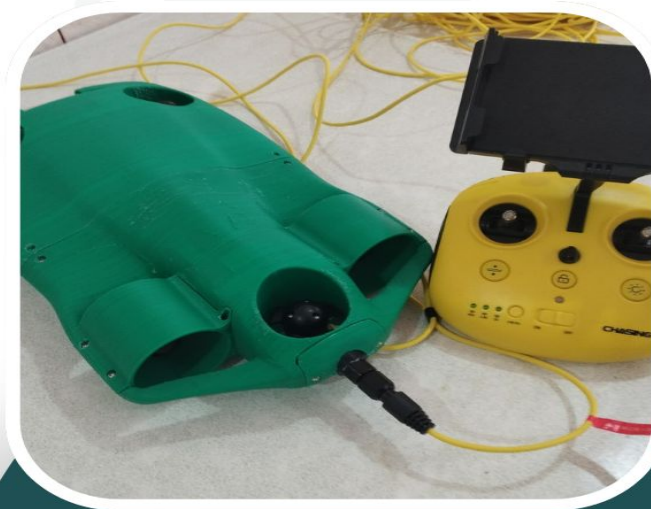
Best practice of current activities of green and digital transformation of the Batken State University

Examples of green transformation

**Filter Fish
for Filtration water and
researchment under water**

**Фильтр-фиш
для фильтрации
воды и
исследований
под водой**

**Inventor:
Ernist Aidarali uulu**



*Invented by the Students of
BatSU*



Examples of green transformation

Waste 
management

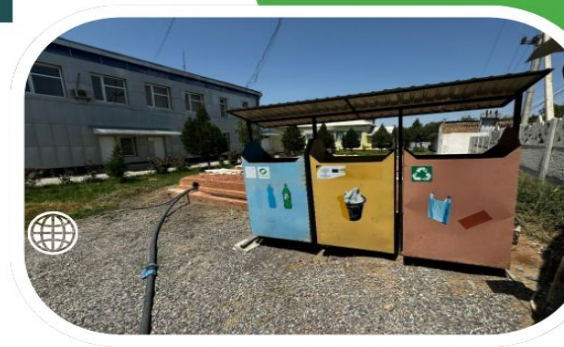
**Управление
отходами**



**Plastic
recycling**



**For bread!
Нан үчүн!**



**Office waster
managment**



Examples of green transformation

**Вода из воздуха
Автономный опарат для
получение воды из
воздуха.**

**Water from the air.
Fully autonomous
equipment for having
water from the air.
(Prototipe)**

Invented by Ernis Aidarali uulu





Examples of green transformation



The main building is fully equipped with a drip irrigation system and water sprays.

Главный корпус полностью оснащен системой капельного орошения и водоспреями.

Automatic lawn watering system
Автоматическая система полива газона



Examples of green transformation

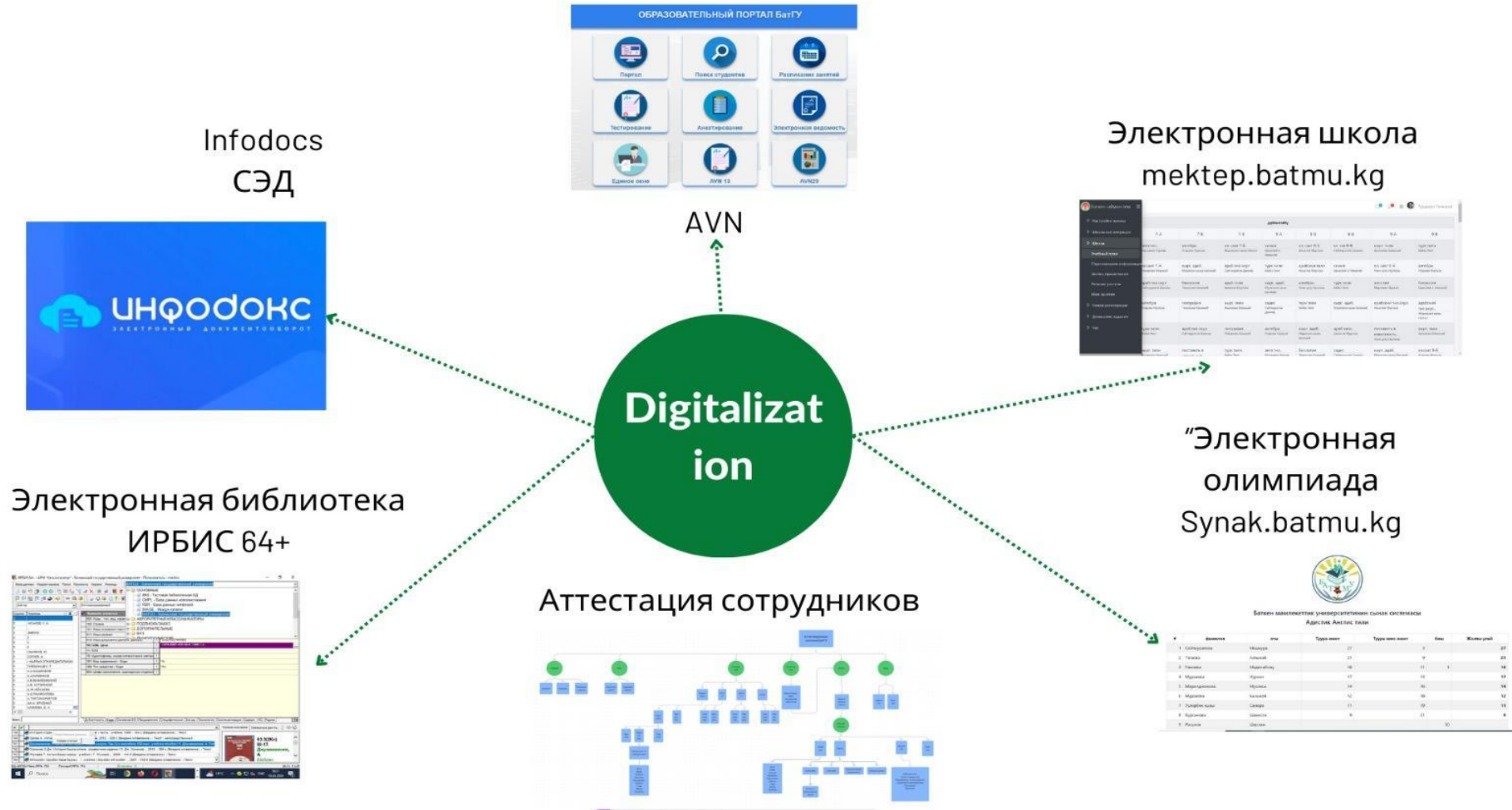


проект
GREEN POINT

Создание зеленого пространства, оснащенного инновационными системами возобновляемой энергией и зарядными станциями в Баткенском государственном университете, с целью обеспечения зарядки устройств сотрудников и студентов, снижения зависимости от традиционных источников энергии и содействия экологической устойчивости.



Examples for Digitalization





Co-funded by the
Erasmus+ Programme
of the European Union

Ideas for Building Green University Infrastructure



WATER SAVING

- **ЦЕЛЬ:** Автоматизировать систему полива для кампуса БатГУ, чтобы сократить расходы воды на 30% в течение следующих 12 месяцев для соответствия общему стремлению университета к устойчивому развитию и экологии.

GOAL: Automate the irrigation system for a campus of BatSU to reduce water consumption by 30% over the next 12 months in alignment with the university's overall commitment to sustainability and environmental stewardship.





Horizontal analysis of curricula and processes in Green Dimensions of the Batken State University

Direction: Economics Profile "Finance and Credit"

SYLLABUS
discipline - "Green Economy"
for specialty students
550400- "Economy"
Full-time education. Bachelor's degree.
full-time education



7 areas of green economy

- 1 Introduction of renewable energy sources;
- 2 Improving the waste management system;
- 3 Improving the water resources management system;
- 4 Development of "clean" transport;
- 5 Organic farming in agriculture
- 6 Energy efficiency in the housing and communal services sector
- 7 Conservation and effective management of ecosystems

Scan
the QR code to
read the full
syllabus






Development of a GDU roadmap of the Batken State University



Goals and Objectives Formulation for GDU and Green and Digital Transformation of University Administrative

Processes:

№	Мероприятие	Срок исполнения (месяцы)							Ответственный исполнитель	Соисполнители	Ресурсы
		июль	август	сентябрь	октябрь	ноябрь	декабрь	январь			
1	Разработка миссии, политики GDO								Проректор по международным связям и стратегическому развитию БатГУ Абдипатта уулу Жумабек	Раб. группа проекта GreenKG БатГУ	Финансирование не требуется
2	Определение организационной структуры и кадрового обеспечения								Проректор по международным связям и стратегическому развитию БатГУ Абдипатта уулу Жумабек	Раб. группа проекта GreenKG БатГУ	Финансирование не требуется
3	Разработка каталога услуг								Зав. отделом международных отношений и академической мобильности	Раб. группа проекта GreenKG БатГУ	Финансирование не требуется
4	Издание приказа ректора о создании GDO с утвержд. перечнем услуг 								Зав. отделом международных отношений и академической мобильности	Раб. группа проекта GreenKG БатГУ	Финансирование не требуется
5	Разработка плана мероприятий и источников финансирования								Руководитель ЦЗО БатГУ	Сотрудники ЦЗО, руководители структурных подразделений	Финансирование не требуется
6	Материально-техническое обеспечение								Проректор по международным связям и стратегическому развитию БатГУ Абдипатта уулу Жумабек	Планово-финансовый отдел, отдел бухгалтерского учета, сектор закупок и материально-технического обеспечения	Требуется финансирование



Development of a GDU roadmap of the Batken State University

2. Work Breakdown Structure (WBS) for 1-3 Year Project/Activity Plan of GDO and Green and Digital

Transformation:

	№	Мероприятие	Срок исполнения (месяцы)												Ответственный исполнитель	Совспомогатели	Ресурсы
			сентябрь	октябрь	ноябрь	декабрь	январь	февраль	март	апрель	май	июнь	июль	август			
Этап планирования	1	Определение объема проекта	■												Проректор по международным связям и стратегическому развитию БатГУ Абдинатта уулу Жумабек	Раб. группа проекта GreenKG БатГУ	Финансирование не требуется
	2	Проведение начального исследования		■											Проректор по международным связям и стратегическому развитию БатГУ Абдинатта уулу Жумабек	Раб. группа проекта GreenKG БатГУ	Финансирование не требуется
	3	Разработка плана проекта			■										Зав. отделом международных отношений и академической мобильности	Раб. группа проекта GreenKG БатГУ	Финансирование не требуется
	4	Обеспечение поддержки заинтересованных сторон				■									Зав. отделом международных отношений и академической мобильности	Раб. группа проекта GreenKG БатГУ	Финансирование не требуется
II	1	Внедрение системы управления энергопотреблением				■	■							Директор Бизнес инкубатора БатГУ, менеджер GDO	Раб. группа проекта GreenKG БатГУ	Финансирование не требуется	
	2	Переход на электронное				■	■							Директор Бизнес	Раб. группа	Финансирование не требуется	



Scan QR-code for
reading GDO Work
Plan





Development of a GDU roadmap of the Batken State University

3. Achievable Key Performance Indicators (KPIs):

- **Environmental Impact**
- **Energy Consumption Reduction**
 - Metric: Reduce energy consumption by 10% in the first year.
- **Waste Management Improvements**
 - Metric: Achieve a 30% diversion rate of waste from landfills through recycling within the first year.
- **Digital Transformation**
 - Metric: Digitize 50% of administrative processes within the first year.
 - Metric: Ensure 60% of staff and students are actively using digital tools and platforms by the end of the first year.
- **Performance and Efficiency**
 - Reduction in Processing Times
 - Metric: Reduce average processing times for key administrative tasks by 20% within the first year.
- **Accessibility and Usability**
 - Metric: 65% of users report improved accessibility and usability of digital platforms within the first year.



ESTIMATED ACTIVITIES WILL BE IMPLEMENTED IN GDO



01 Installation of interactive panels
This is for displaying class schedules, events and other information.



02 Essay Competition
"How Digitalization Affects the Environment"



Essay Competition 01

How will my future profession affect the environment? (For schoolchildren)



TRAINING 02

To raise environmental awareness among students and staff



03 TRAINING
To increase digital awareness among students and staff

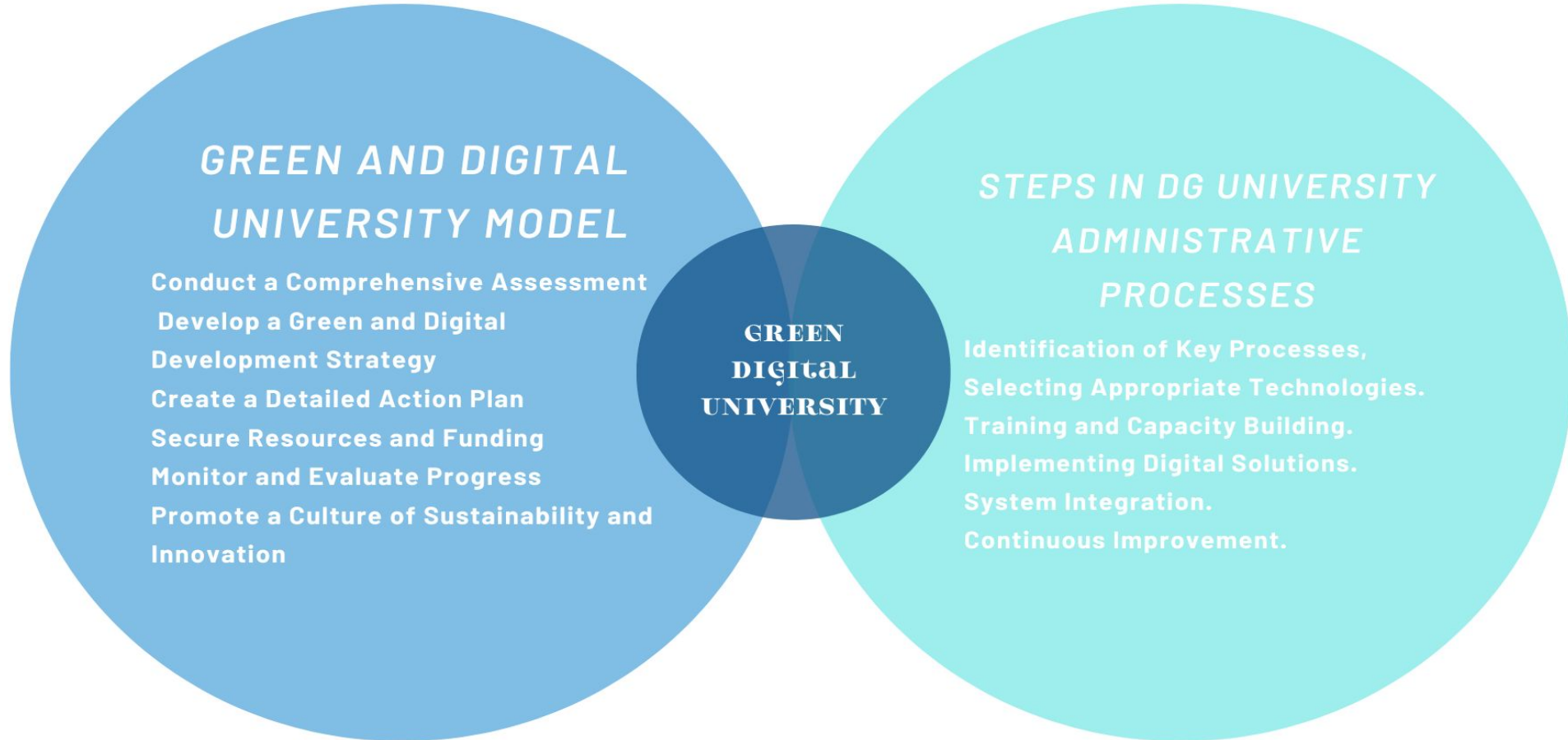


Conduct a competition 03
"The Greenest Office"



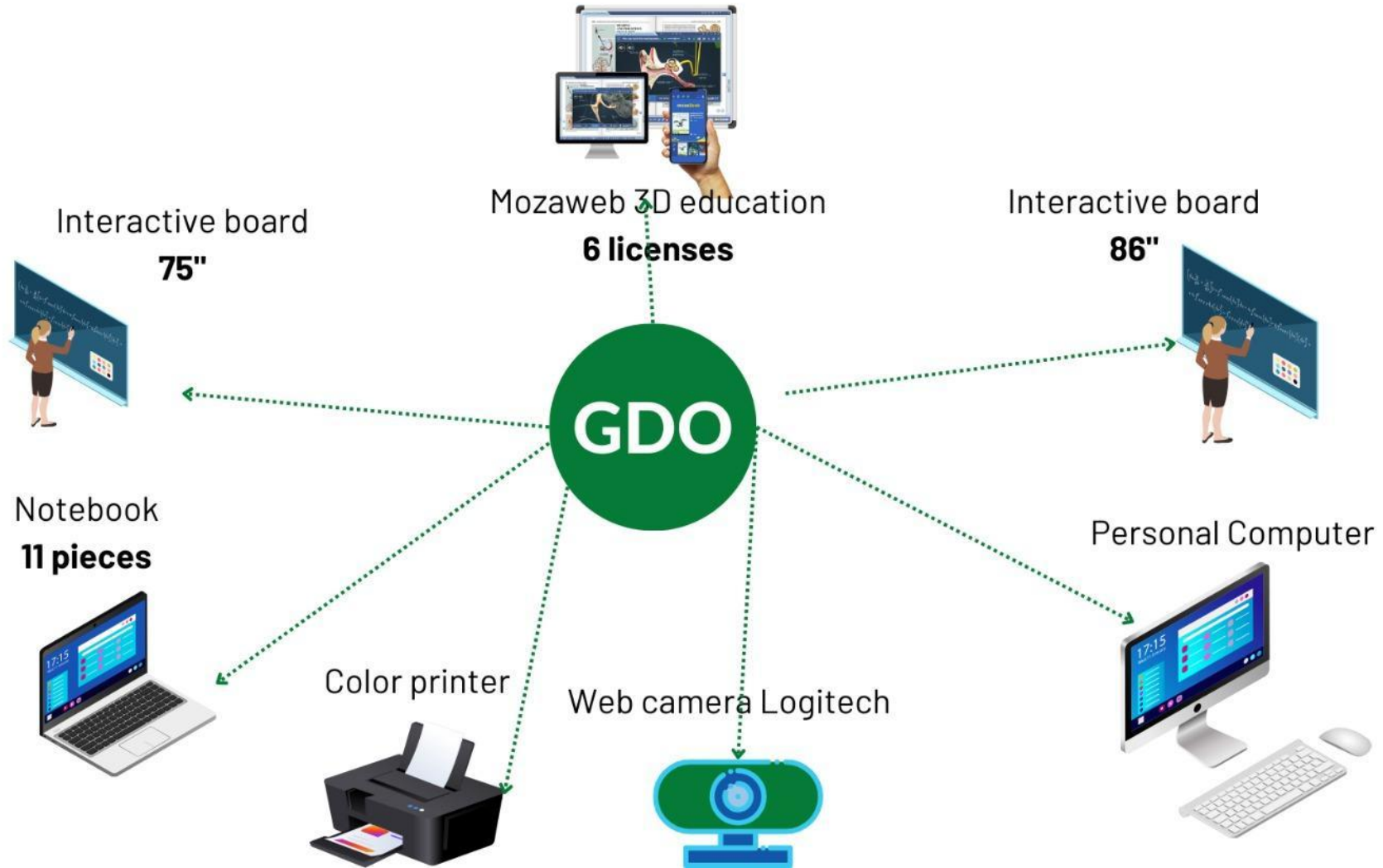


Digitalization of the Batken State University administrative processes





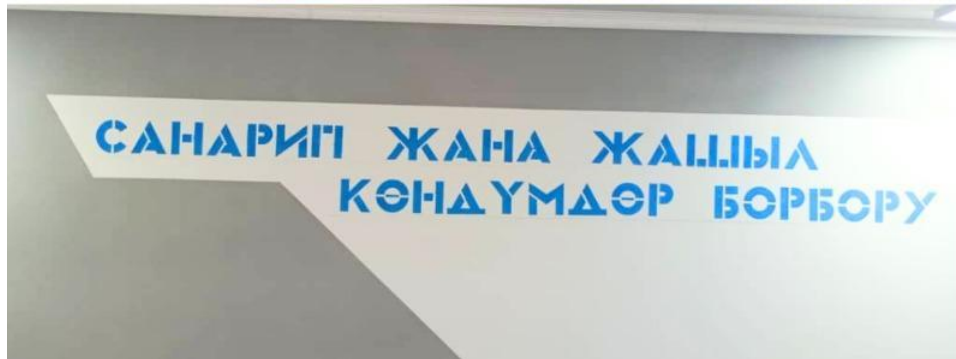
Building Green University Infrastructure





Co-funded by the
Erasmus+ Programme
of the European Union

Building Green University Infrastructure





Summary and final conclusions

1. The next steps of the Batken State University towards a green university and digital transformation

Conduct a comprehensive assessment, develop a green and digital strategy, create a detailed action plan with clear objectives and stakeholder engagement, secure resources and funding, implement pilot projects, monitor and evaluate progress using KPIs, and promote a culture of sustainability and innovation to drive the green university and digital transformation.