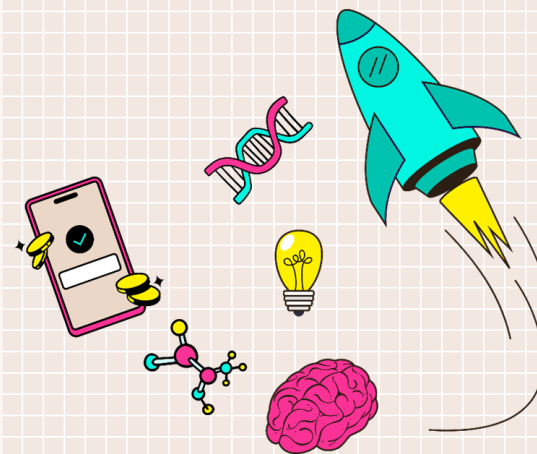


We Did It In Poland!



Lesson duration: 45 minutes

Target group: 7th and 8th grade
primary school students

General objective



Students learn about examples of contemporary achievements of Polish women and men – from technological startups and scientific discoveries to social innovations and civic initiatives.

Knowledge | The Student:



- explains the concepts of *invention* and *innovation* and identifies the differences between them using examples from the presentation or activity stations.
- recognizes and names selected Polish innovations/technologies and their creators or institutions, e.g., *InPost Parcel Lockers*, *the Bionic Pancreas*, *AGH Kalman Rover*, *Eye Payment System*, *ElevenLabs*, or *BLIK*.
- understands that Poland is a modern and creative ecosystem combining science, business, and public administration.
- knows the basic meaning and applications of technologies such as *3D printing*, *AI/generative audio*, *robotics*, *data compression (AMS)*, *recycling (Molten)*, and *fintech (BLIK, biometric payments)*.
- describes the social and environmental benefits of innovation.
- understands key terms such as *prototype*, *implementation*, *scaling*, *risk/safety*, and *ethics of technology* (at an age-appropriate level).

Skills | The Student:



- analyzes short sources and selects information relevant to the task.

- creates short summaries answering “What is it?”, “What is it for?”, and “Who is it for?” for a chosen innovation.
- works in pairs or groups – divides roles, presents results, gives and receives feedback.
- compares different solutions (e.g., payment methods) and justifies the choice of the “most useful” or “most interesting” innovation.
- uses basic terminology in speech and writing, such as *3D printing*, *biometrics*, *data compression*.
- designs a mini idea (a thought prototype) for an innovation that could make life easier.

Attitudes | The Student



- builds a sense of agency (“I can create solutions too”).
- appreciates teamwork, the diversity of skills, and the role of mistakes in the learning process.
- expresses pride in Polish achievements.
- develops curiosity, ethics, and responsibility in using technology.
- respects the work of scientists, engineers, entrepreneurs, and public institutions implementing innovations for the common good.

Forms of work

- Individual: choosing “Innovation No. 1,” creating a mini project of one’s own innovation.
- Pair work: defining *invention* vs. *innovation*, completing task cards.
- Group work: rotating between stations.
- Frontal work: joint verification – “Is it a Polish innovation?”
- Kinesthetic/rotational: moving between activity stations.
- Reflective: “sentence round” (“What am I taking away from this lesson?”).

Methods

- Talk and guided discussion (introduction, concept clarification).
- Station-based learning method (information discovery, working with task cards).
- Case study / source analysis.
- Brainstorming (mind map: “Innovations from Poland that change the

world”).

- Mini-project (creating one’s own innovation).
- Evaluation and self-evaluation.

Teaching aids

- presentation/PDF with examples of innovations.
- information cards for station activities.
- multimedia equipment: computer and/or projector.
- stationery materials: worksheets, markers, sticky notes.
- optional: timer for rotating between stations.

LESSON PROCEDURE

PREPARATORY PHASE – INTRODUCTION	Time 10 min.
<p>Referring to the sense of pride discussed in the previous lesson, the teacher asks students, working in pairs or small groups of 3–4, to think about what they are proud of today. Perhaps something happened recently that made them feel really satisfied with themselves. Students’ answers may vary widely, but since this task draws on their general knowledge and experiences, it is worth giving the group about 2–3 minutes to reflect.</p> <p><u>Sample teacher narration and guiding questions:</u> In the previous lesson, we talked about pride. We mentioned our own achievements and the achievements of <i>Poles we are proud of</i>. <i>Some time has passed – talk in pairs about what you are proud of today. How do you feel about this emotion? The teacher asks willing students to share their thoughts with the group.</i></p>	
IMPLEMENTATION PHASE	Time 30 min.
<p>1. Introduction to the topic (approx. 5 minutes)</p> <p>The teacher asks students to think in pairs about what an invention is and what an innovation is.</p> <p><u>Information for the teacher:</u> An invention is an idea for something</p>	

completely new that did not exist before, e.g., a new type of toy that solves a particular problem.

An innovation, on the other hand, is an idea that is new but has already been applied in practice to improve something or make it better. For example, if someone invents a new, faster way of moving around, and later this method is improved to be even faster and more efficient for everyone, that's an innovation.

Simple definition: **Invention** – something that didn't exist before. For example, the invention of the wheel was an invention because no one had ever come up with that idea before. It's a new idea created to solve a problem, like inventing a toothbrush to make cleaning teeth easier.

Innovation: *an idea for improving something that already exists. For example, the car was invented, and later faster, better, and safer cars were created – that's an innovation. It's the practical use of your new idea in a way that helps many people.*

Example: *When someone invented the telephone, they created something that didn't exist before. Later, when someone introduced an innovation by creating the smartphone – improving the telephone by adding new functions and possibilities – that was an innovation.*

The teacher leads a short class discussion about what innovations are and why they are needed.

SUMMARY PHASE

Time 5 min.

The teacher gathers the students in one place and asks volunteers to share their reflections on Polish innovations.

Sample follow-up questions: Which innovation do they find the most interesting? Which one would they like to learn more about? Which one would be most useful in their current life? What could make life easier for people on Earth – or perhaps make their own life easier? What kind of innovation do they think is still missing?

Suggested Adaptations

Barriers and Potential Challenges

ABSTRACT CONCEPTS: "INVENTION AND INNOVATION"

Difficulty: Students have trouble understanding theoretical concepts and the differences between them.

Adjustments

Turning definitions into concrete ideas:

Use the following scheme:

- Problem → idea → used by people = innovation
- Problem → idea = invention

Ask students to give examples from everyday life (e.g., a backpack, a phone, a scooter).

Language support:

Write ready-to-use sentence frames on the board:

- "An invention is ..."
- "An innovation is ... because ..."

Lowering the entry threshold:

- Pairing students (stronger students with those who have difficulties).
- Students may answer orally or by selecting examples, without giving full definitions.

PRESENTATION OF POLISH INNOVATIONS

Difficulty: A large amount of specialist information (AI, biometrics, AMS, 3D printing).

Adjustments

One consistent working pattern for each innovation:

Answer only three questions:

- What is it? → What is it used for? → Who does it help?

Simplified tasks:

Instead of written descriptions:

- matching names with pictures,
- choosing the correct function,
- marking "YES/NO".

Reducing the amount of material:

Each pair analyzes a maximum of 2 innovations instead of 8.

STATION METHOD – TASK-BASED WORK

Difficulty: Independent selection of information and group cooperation.

Adjustments**Fixed student roles:**

- reader,
- note-taker,
- timekeeper,
- presenter.

Worksheets in an “easy” version:

- highlighted keywords,
- shortened descriptions,
- multiple-choice questions instead of open-ended answers.

Reducing stimuli:

Instead of rotating through 7 stations, students visit 3–4 selected stations.

Sensory support:

For students with concentration difficulties:

- option to stay in one place and work at a single station.

CREATING YOUR OWN IDEA FOR AN INNOVATION

Difficulty: A very abstract task – planning and predicting.

Adjustments

Use a work template instead of a written project:

1. What bothers me?
2. What could help?
3. How does it work?
4. Who is it for?

Alternative forms:

- Drawing + one sentence.
- Oral description instead of written.

Ready-made options to choose from:

- “An idea for school / home / transport / phone”.

SUMMARY DISCUSSION

Difficulty: Reflective statements.

Adjustments**Sentence starters:**

- “The most interesting thing was ...”
- “I was surprised by ...”
- “Now I know that ...”

Non-verbal version:

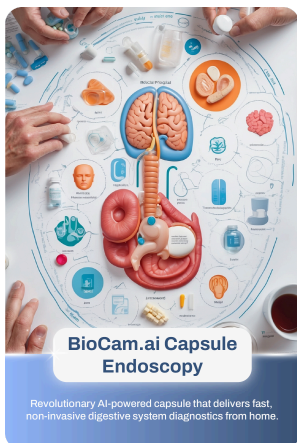
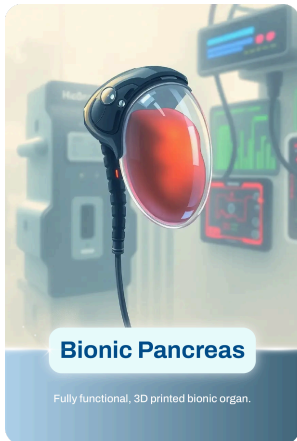
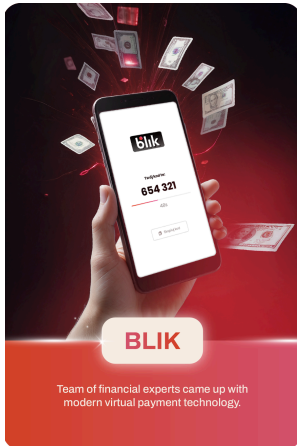
- Sticky notes placed on the board.
- Choosing an emoji: 😊 😐 😞

Movement-based voting:

Standing next to a poster labeled:

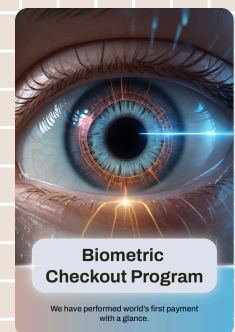
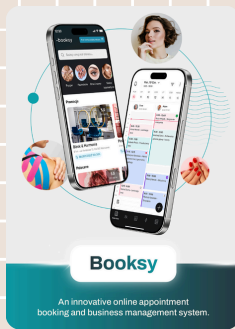
- “the most interesting innovation”,
- “the most useful innovation”.

Appendix no. 1



Appendix no. 2 – Is this a polish innovation?

IS THIS A POLISH INNOVATION?



Appendix no. 3 – educational stations

INPOST PARCEL LOCKER

Convenient and contactless parcel collection

InPost is a leading logistics solutions provider for the e-commerce industry in Europe, which revolutionized the parcel delivery market by introducing Paczkomat® machines. The first devices appeared in 2009 and quickly became the most popular method for sending and receiving parcels. The InPost Group, as of the end of 2024, operated nearly 47,000 modern Paczkomat® machines across 9 countries (the United Kingdom, France, Poland, Italy, Spain, Portugal, Belgium, Luxembourg, and the Netherlands). In 2024 alone, the company handled over one billion parcels.



EKOzwrot – instead of throwing away things that are still in good condition, you can give them away for reuse.

How to do it?

1. Pack the items you want to give away.
2. Generate a shipping code. If you're sending an EKOzwrot through the app, choose "New shipment," then "Return," and click the green button "Donate to Foundation."
3. Place the code on the parcel. Send it for free using the nearest Paczkomat® machine.

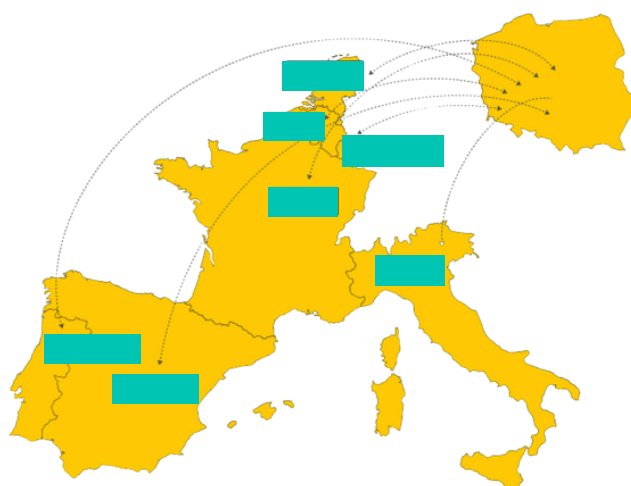
Why is it worth sending EKOzwroty?

- ✓ It's completely free and InPost Parcel Lockers are everywhere – on average just a 6-minute walk from you!
- ✓ Over 72% of donated items can be reused!
- ✓ When you pass things on, you reduce waste and help cut down on trash. minutes.

EXERCISES

INPOST PARCEL LOCKER

In which countries, besides Poland, can we also find Paczkomat machines?



Create an advertising slogan promoting the idea of EKOzwroty, as well as a short description of a campaign you would organize to persuade others to get rid of unwanted items in an eco-friendly way.

Advertising slogan:

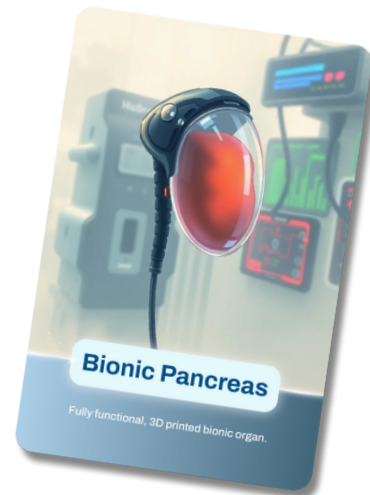
Short campaign description (3–4 sentences):

- *What actions will you take?*
- *Who is your ad aimed at?*
- *What do you want the audience to feel or do after reading your message?*

BIONIC* PANCREAS

A fully functional 3D-printed organ

The bionic pancreas is an alternative treatment option for type I diabetes and for patients with chronic pancreatitis. It is a fully functional, 3D-printed bionic organ with a vascular system, developed using advanced biomaterials and living cells. It is the world's first bionic organ printed using 3D printing technology that is ready to enter the clinical trial phase. The bionic pancreas produces insulin and glucagon, while the bioprinted vascular system ensures full perfusion of the organ and integration with the patient's circulatory system. This gives patients hope, offering a chance to regain a normal life.



*** Bionic = living**

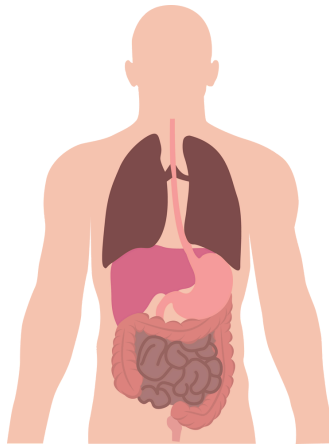
How is a bionic pancreas made?



EXERCISES

BIONIC PANCREAS

Look at the internal organs of the human body. Find the pancreas and label it.



Choose the correct answer:

The bionic pancreas is the first in the world:

- a) a bionic organ printed using 3D printing technology,
- b) an oral medicine that replaces insulin,
- c) an artificial prosthesis supporting heart function.

The bionic pancreas is used for:

- a) treating diabetes and pancreatic diseases,
- b) improving eyesight,
- c) faster wound healing,
- d) examining the heart.

Watch the video showing how a bionic pancreas is created and number the steps:

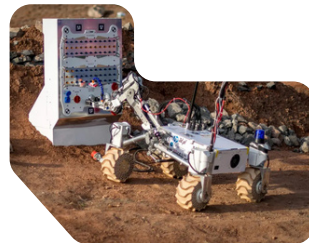
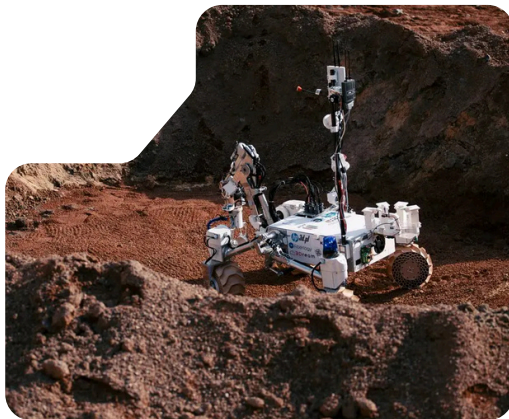
- – Storage and assessment of safety and functionality
- – Transformation of stem cells into pancreatic islets producing insulin and glucagon
- – Expansion of stem cells
- – Patient biopsy
- – Bioprinting of the bionic pancreas

AGH KALMAN ROVER

Polish students have built an innovative planetary rover

Kalman is a technologically advanced, mobile, and autonomous exploration robot. The rover features a lightweight frame, a precise manipulator, and a gripper equipped with a camera system and interchangeable jaws. It stands out for its modular structure, which makes servicing and upgrades easier. The robot can perform research, maintenance, and support tasks. Recent achievements of the robot and its team include first place at the University Rover Challenge 2024, second place at the European Rover Challenge 2024, first place at the Canadian International Rover Challenge 2023, and first place at the European Rover Challenge 2023.

The goal of the project is to create a fully functional robot capable of traversing the challenging terrain of Mars and the Moon, testing new technologies necessary for exploration, analyzing soil samples in search of signs of life, and supporting astronauts with minimal operator intervention.

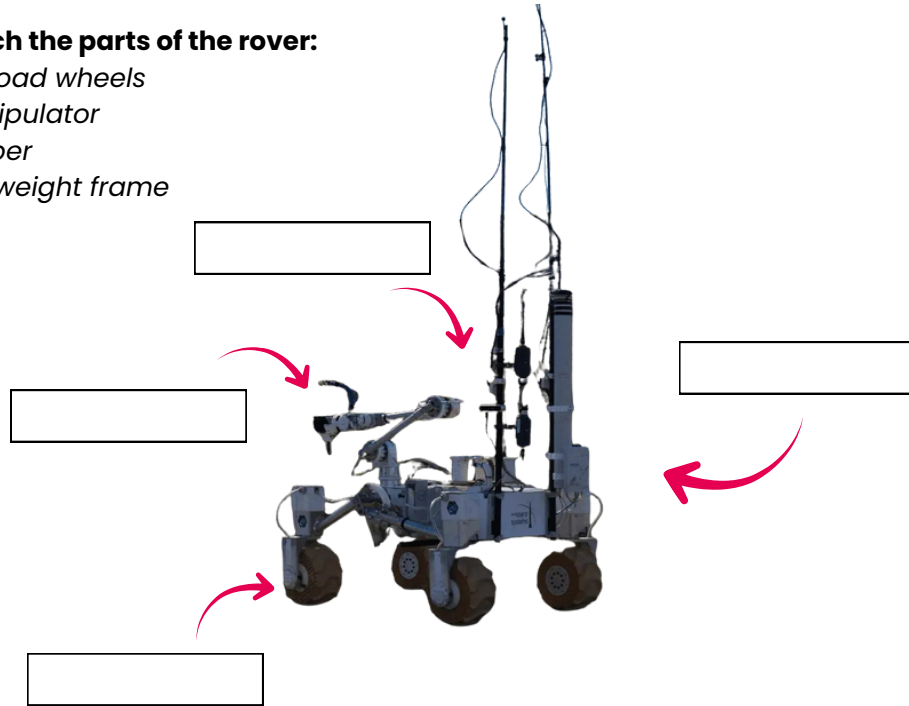


EXERCISES

AGH KALMAN ROVER

Match the parts of the rover:

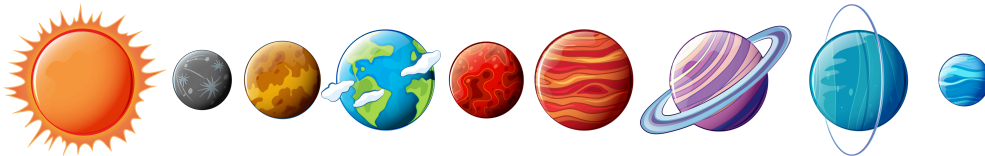
off-road wheels
manipulator
gripper
lightweight frame



Fill in the missing words:

The goal of the project is to create a fully functional,
which will be able to traverse the difficult terrain ofand
....., test new technologies necessary for exploration, examine
..... in search of signs of life, and support

Point to Mars.



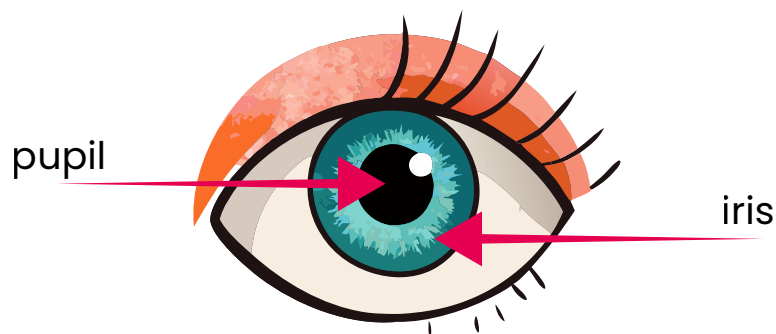
PAYMENT WITH A GLANCE

The first biometric payment based on the fusion of iris and facial recognition was made in Poland!

A pilot program for modern biometric payments took place in Poland, allowing people to pay for their shopping... with just one glance! The system combines facial and iris recognition, making payments fast, convenient, and secure.

With biometrics, you don't need a payment card or a phone — just look into the camera. Research shows that as many as 90% of people who tried this method were satisfied with it, and over 60% consider it more convenient than other payment methods.

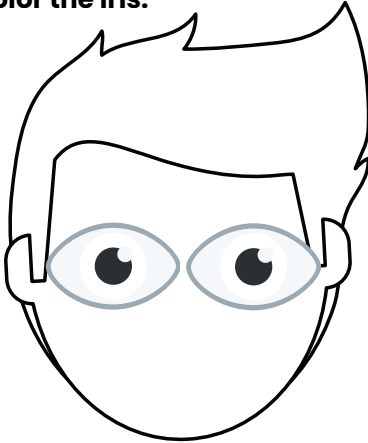
This is the first solution of its kind in Poland and one of the first in Europe, and it could completely change the way we shop in physical stores.



EXERCISES

PAYMENT WITH A GLANCE

**Point to the iris and the pupil.
Color the iris.**



Choose the correct answer:

What is biometrics?

- a) the science of the structure and operation of computers
- b) a method of recognizing people based on their physical characteristics or voice
- c) a payment system based on cards and phones
- d) a way of encrypting data on the Internet

Fill in the missing words.

Biometric payment is a fusion of _____ biometrics and _____ biometrics, which makes it possible to pay for purchases with a single _____!

Imagine that you are a creator of modern technologies. Invent an innovative way of paying in the future that does not yet exist.

Give it a name:

Describe how it works:

Explain why it would be convenient and safe for people:

ELEVEN LABS

A global leader in the generative audio artificial intelligence sector that originates from Poland

ElevenLabs is a research company developing audio AI. The company creates artificial intelligence that listens, understands, and responds like a human. It offers tools that make voice a natural way to interact with technology. Its mission is to ensure that everyone can access digital content in their own language and with any voice. ElevenLabs offers the ability to generate naturally sounding voices and sounds in 32 languages.

In January 2024, the company achieved unicorn status with a valuation exceeding \$1 billion – and just a year later, its value tripled, reaching \$3.3 billion.

ElevenLabs technology is used for recording audiobooks and articles, animating game characters, supporting film preproduction, localizing multimedia in entertainment, creating dynamic audio content for advertising and social media, and training medical staff. It also restores voices to those who have lost them and supports people with disabilities in their everyday lives.



Eleven Labs models

translated
over 1 mln
hours of audio.

created
over 10 mln
sound effects

read aloud
over 1 mln hours
of text from e-books,
PDF files, and press articles

generated
over 1000 years
of audio

EXERCISES

ELEVEN LABS

Choose the correct answers.

ElevenLabs is used for:

- a) recording audiobooks
- b) recording articles
- c) animating game characters
- d) supporting film preproduction
- e) localizing multimedia in entertainment
- f) creating dynamic audio content for advertising and social media
- g) training medical staff

In how many languages can audio be generated using ElevenLabs technology?

.....

Fill in the missing word.



A unicorn in business means a company valued at over \$ lub €.

How many zeros are there in a billion?

Give an example of a country where you can pay with the following currency:

- a) dollars \$:
- b) euros €:

VIDRE+™

Innovative packaging for products that helps keep them fresh

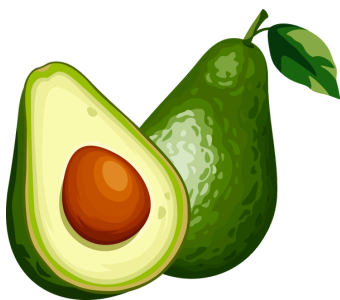
Vidre+™ is an innovative technology that revolutionizes the management of product freshness. It can be applied at every stage of the distribution chain – from producers to retail – and works on fruits, vegetables, flowers, and potted plants. Thanks to its patented active substance, applied in the form of a sticker or packaging, Vidre+™ extends freshness, preserves texture, firmness, taste, and appearance of products, minimizing waste and maximizing value for the food and floristry industries.



Vidre+™ is a solution that effectively prevents food waste by keeping products fresh for longer. As a result, it reduces food losses, lowers costs for producers and retailers, and decreases the carbon footprint. Its simple application – in the form of a sticker or packaging – makes the technology accessible even to smaller producers.

Avocado

is a great example of Vidre+™ in action.



The result?

- 100% green fruit even after 46 days
- Extended shelf life
- Slower ripening
- Delayed softening
- Prevention of pulp damage

EXERCISES

VIDRE+™

Name two of your favorite products that Vidre+ will help stay fresh for longer:

FRUITS:

.....
.....

FLOWERS:

.....
.....

VEGETABLES:

.....
.....

POTTED PLANTS:

.....
.....

A major success of Vidre+™ is enabling the transport of avocados from South America to Asia. Mark both continents on the world map.





BLIK

Modern virtual payment technology



BLIK has been operating in Poland since 2015 and has truly revolutionized the way people make payments. It has made payments fast, convenient, and secure. Today, it is the most popular mobile payment system in Poland, with 20 million users. You can pay with BLIK in all banking apps without needing a card.

Internet access
a banking app
smartphone




What do you need to pay with BLIK?

It is a fast and secure way to pay using your phone. Before anyone can use it, the bank must verify that it is really that person. This is called verification – the bank confirms the user's identity, for example through an SMS message, the app, or a call with customer service. Thanks to this, no stranger can "link" their phone to your account. Once you have a banking app with BLIK, several security features protect you.

Once you have a banking app with BLIK, several security features protect you:

- **PIN, fingerprint, or password** – without one of these, no one can access your app.
- **BLIK code** – a six-digit number that is valid for only 2 minutes! After that, it expires and can't be used again.
- **Transaction confirmation** – before you pay, the app shows who you're sending money to and how much.

If you pay more than 50 PLN, the bank will ask you to enter your PIN. You don't need to provide your card number or hold your phone to the terminal – the code is enough. But every user must also be careful. Never share your BLIK code with anyone – even if they pretend to be your friend!



EXERCISES



Modern virtual payment technology

How old is BLIK?

What do you need to pay with BLIK?

- a) an ID card
- b) a banking app
- c) a payment card
- d) internet access
- e) a phone

Are these situations safe (✓) or dangerous (⚠)?

Someone you know asks you on Messenger to lend them 50 PLN via BLIK because they "lost their wallet."

☐☐

A "bank consultant" calls us and says that someone is trying to withdraw money from our account. They ask us to provide the BLIK code.

☐☐

A friend sends you a link to a contest with prizes and asks you to "log in quickly" and provide your PESEL number.

☐☐

Your mom asks you to pay with BLIK in an online store using her phone.

☐☐

In the banking app, a request appears to confirm a transaction of 5 PLN to an online store where you actually bought something.

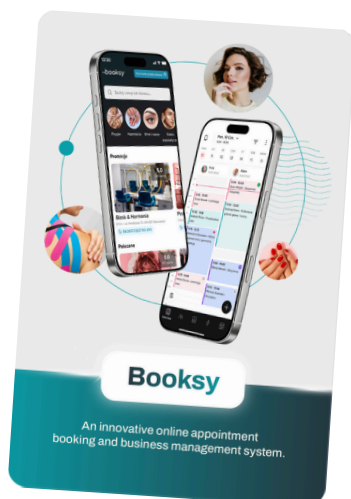
☐☐

On Instagram, you receive a message from a popular clothing brand: "You've won a 500 PLN voucher! Click to confirm your account."

☐☐

BOOKSY

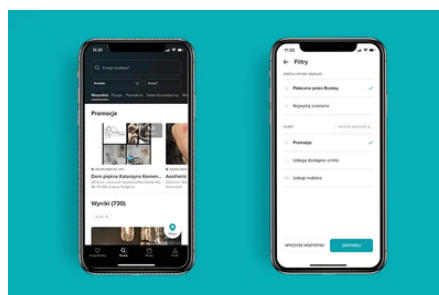
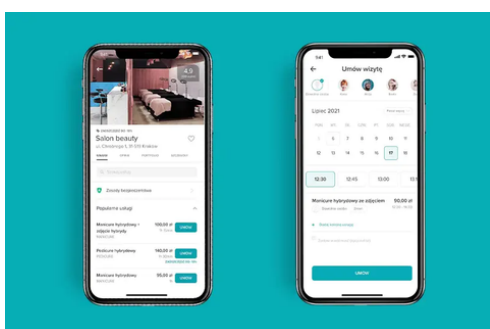
An innovative system for booking appointments online



Booksy is a platform that connects businesses with customers, enabling convenient 24/7 online booking and comprehensive business management. Founded in 2015, the company quickly became a leader in the Polish market and began global expansion. It operates, among others, in the USA, the United Kingdom, France, and Spain, serving over 380,000 service providers worldwide. The app supports industries such as beauty, automotive, finance, and pet services with its solutions. In January 2025, in cooperation with Znajdź Gabinet, Booksy Med was created – a unique product for physiotherapy clinics.

The free app allows you to book an appointment online from anywhere, at any time, eliminating the need to call during a business's working hours. The app reminds you about an upcoming appointment and lets you quickly reschedule or cancel it.

The app is used by nearly 50 million users worldwide.



EXERCISES

BOOKSY

An innovative system for booking appointments online

Choose the correct answers.

1. Booksy is an app used for:
a) booking appointments online
b) ordering food
c) buying tickets
d) learning languages
2. The company Booksy was founded in:
a) 2020
b) 2015
c) 2012
d) 2018
3. What services can you book through Booksy?
a) hairdresser
b) physiotherapist
c) beauty, automotive, finance, pet services
d) fitness
4. The Booksy app is used worldwide by approximately:
a) 1 million people
b) 10 million people
c) 50 million people
d) 100 thousand people

Imagine that you are a Booksy developer. Your task is to design a new feature in the app that will make users' lives easier.

How does the new feature work?

Who would it help the most?

What could it look like in the app? You can draw a simple screen and/or an icon.

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