SEEDiA™

solutions supporting the development of **green cities**

ineffective public transport

According to the World Bank, in 2020, only **17%** of the world's urban population used public transport as their main mode of transportation.

increased traffic

According to INRIX, in 2022 the time spent in traffic jams worldwide increased by **10%** compared to 2021 and amounted to an average of **36 minutes** per day per driver.

excessive noise

According to the Statistics Poland, in 2020, **54%** of Polish residents were exposed to LDEN noise levels exceeding 55 dB.

air pollution

According to the UN, **91%** of the global population lives in places where air pollution exceeds WHO guidelines.

no charging facilities

According to a 2023 report by Deloitte, there are only 750,000 electric bicycle charging points around the world. This is over **13 times less** compared to scooter charging points.

growing number of vehicles

According to Bureau of Transportation Statistics data, in 2023, **62%** of passenger cars were registered in metropolitan areas.

lack of green areas

According to WHO, there should be at least 9 m² of green area available for each city resident. In Warsaw, it is only **2,5 m²**.

CHALLENGE

According to UN data, 70% of the world's population will live **in cities** by 2050.

We create solutions for

cities and **business** .

hardware software

maintenance

Safe eco parkings

Quality of living

Transport 4.0

SDG

15 minute cities

Solutions

We improve cities by implementing 4 types of products.

solar benches - life quality improvement, free energy, public space analytics, Wi-Fi hotspots, smart lighting, marketing support

charging stations for micro-electromobility - evolving cities require specialized infrastructure for the safe charging and parking of electric bikes and scooters

smart bus shelters - thanks to the use of solar energy and e-ink technology we can reduce the cost of operating shelters by 20,000-40,000 PLN per year

solar infokiosks - the automatic content generation system combined with an off-grid power supply allows passenger information to be delivered anywhere at any time

InCity

It's Seedia's street furniture management platform that allows data analytics, open API, automatic schedule management, mobile traffic analysis, and much more.
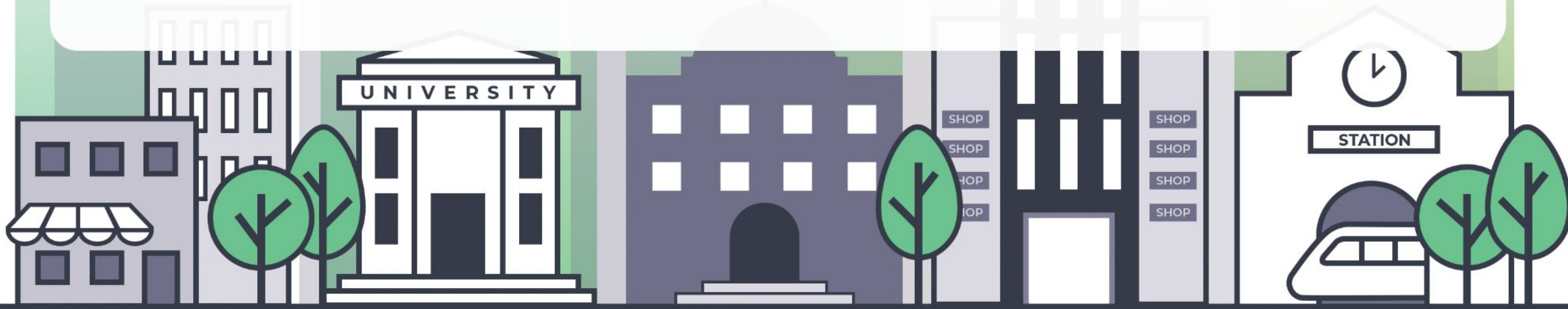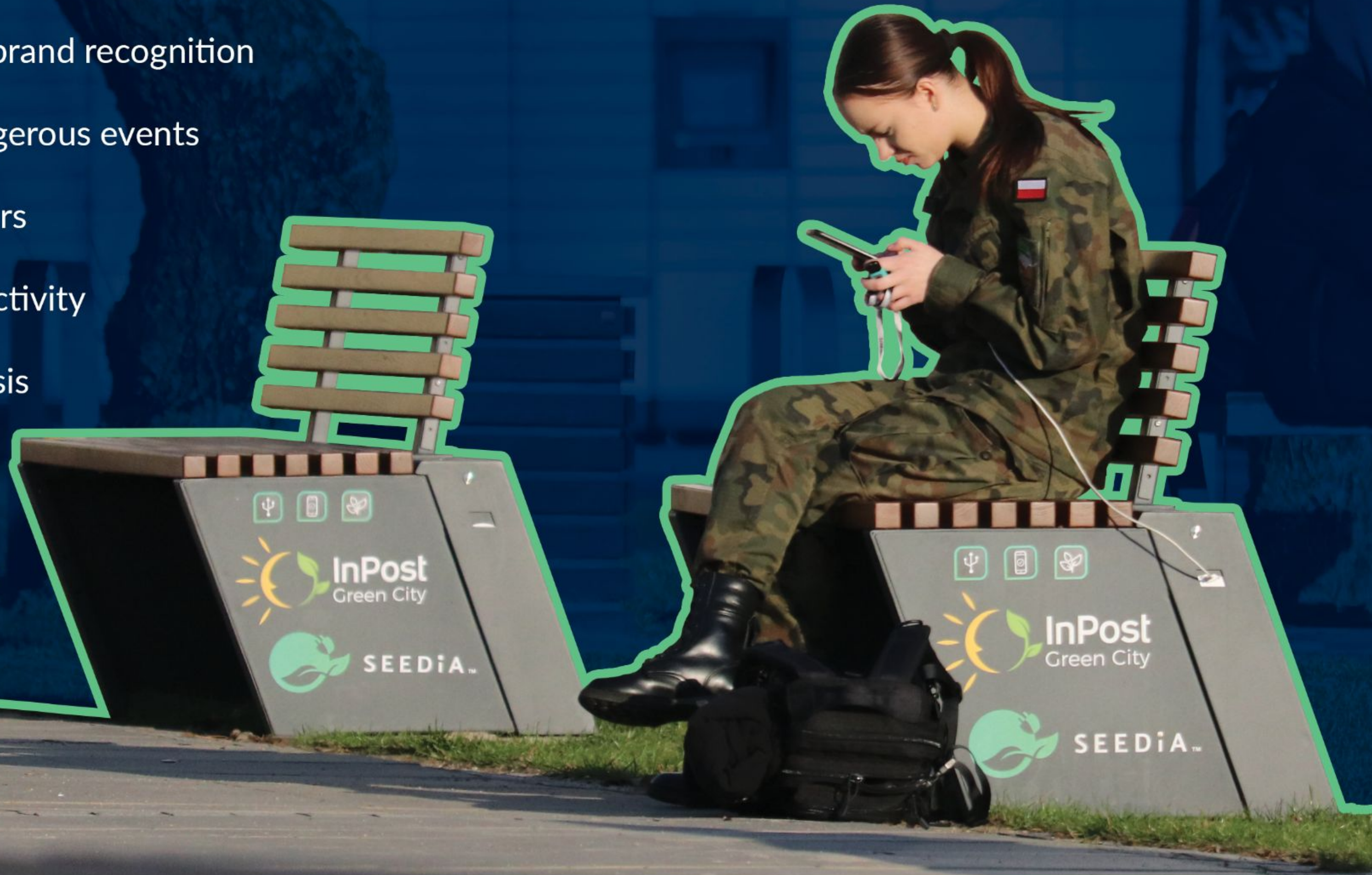
Solar benches

- **30%** increase in brand recognition
- detection of dangerous events
- urban data sensors
- fast Wi-Fi connectivity
- user traffic analysis

📍 **Wyszków,**
Poland

City

solar benches

This is Seedia's flagship series of solar benches. Apart from its amazing urban-feel-like design, it's known for its innovative modular design which makes this bench available in 3 different configurations. You can choose from the basic one, the Classic version with a backrest, and the Bike version with an additional bicycle stand. The bench is equipped with a solar panel built into the seat. It's a great option for the city's green areas like parks and walks.

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Anthracite grey

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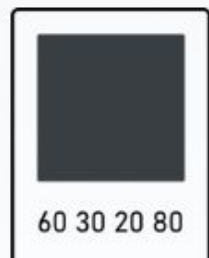
City Classic

City

City Bike

New Urban

solar benches

This is the latest version of the city bench from the Urban series. We went back to the drawing board and designed this year's model from scratch. Thanks to its modular design it becomes an even more powerful tool to face urban challenges. Now the backrest and the seat are covered in wood for a better user experience and environmental impact. The bench also features an all-in-one box design which means all the electronics are located in one spot.

New Urban

New Urban Basic
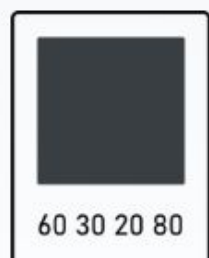
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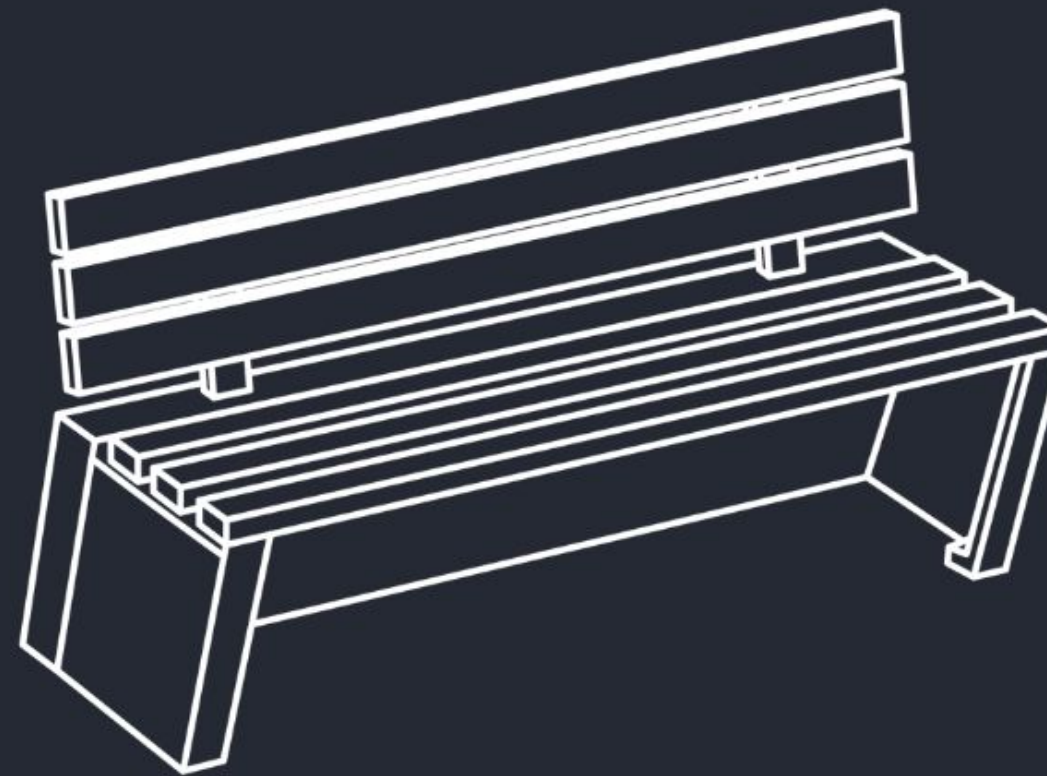# Functionality

audio system

remote management

USB ports

Wi-Fi hotspot

LED lighting

temperature sensor

wireless charger

smog sensor

Infokiosk

- statistics generating and data collecting

- up-to-date information on public transport

- remote timetable updating

- navigation directions for passengers

- tourist information

- off-grid operation

Rzeszów,
Poland

Infokiosk

with e-ink screen

Seedia's Infokiosk is designed to serve
as a municipal information point at first,
however, it's technically ready to work
facultatively as an automatic dispenser for hand
sanitizer at the same time. It is equipped with
a monochrome e-ink screen and solar panels
on its back that allow off-grid operation.
The content displayed on the screen can be
managed remotely. This product is suitable
for transport hubs, railway stations, airports,
shopping malls, and office buildings.
It's a useful solution for places where quick
access to information is essential and highly
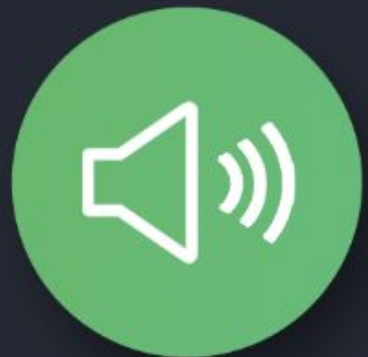anticipated.
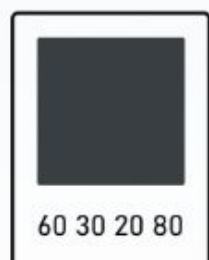
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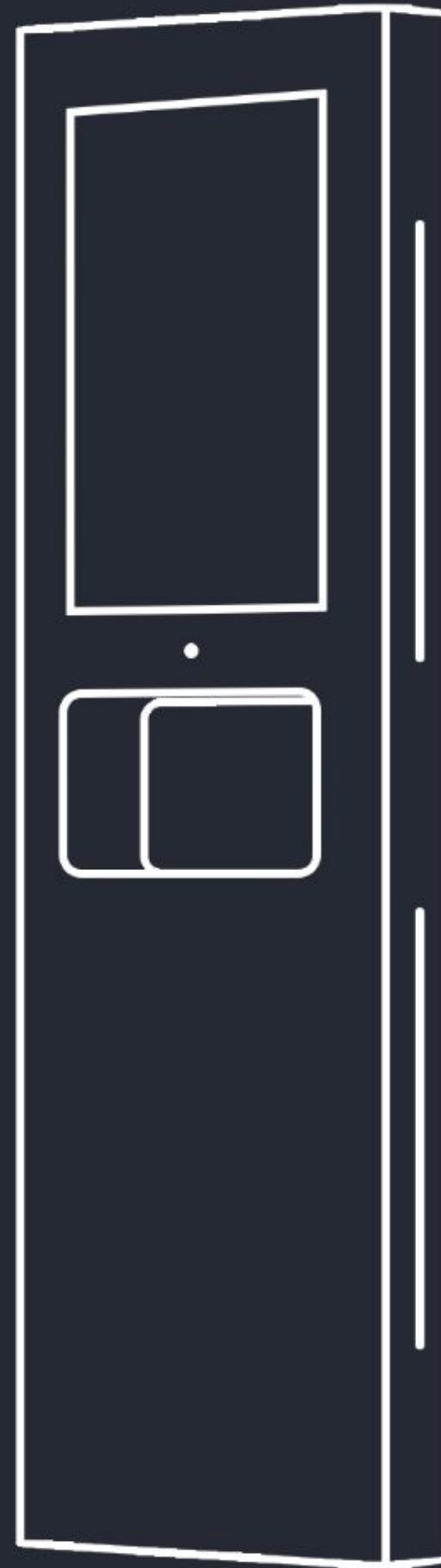60 30 20 80

Functionality

audio system

remote management

GPS

e-ink screen

automatic dispenser

liquid level sensor

liquid tank

rust protection

InCity

management platform - SDG

- remote monitoring of the device status

- analysis of the number of users

- maps with GPS location

- color management of LED lighting

- remote management of content displayed on the e-ink screen

- support for voice commands

- data collecting and analysis from city sensors (air quality, temperature, humidity, etc)
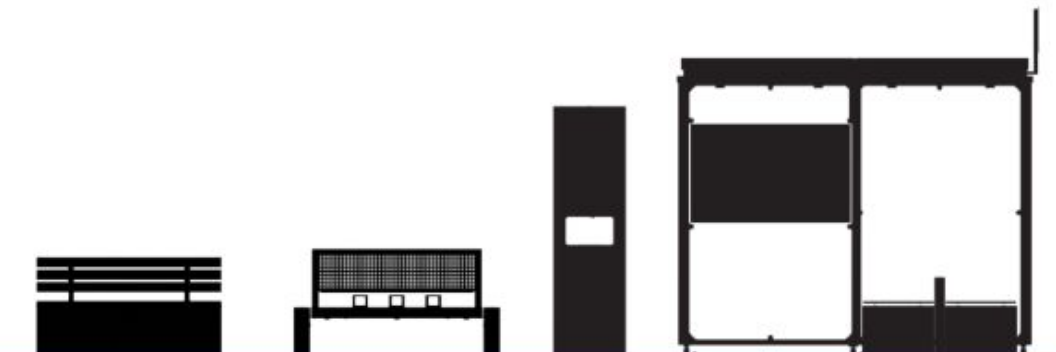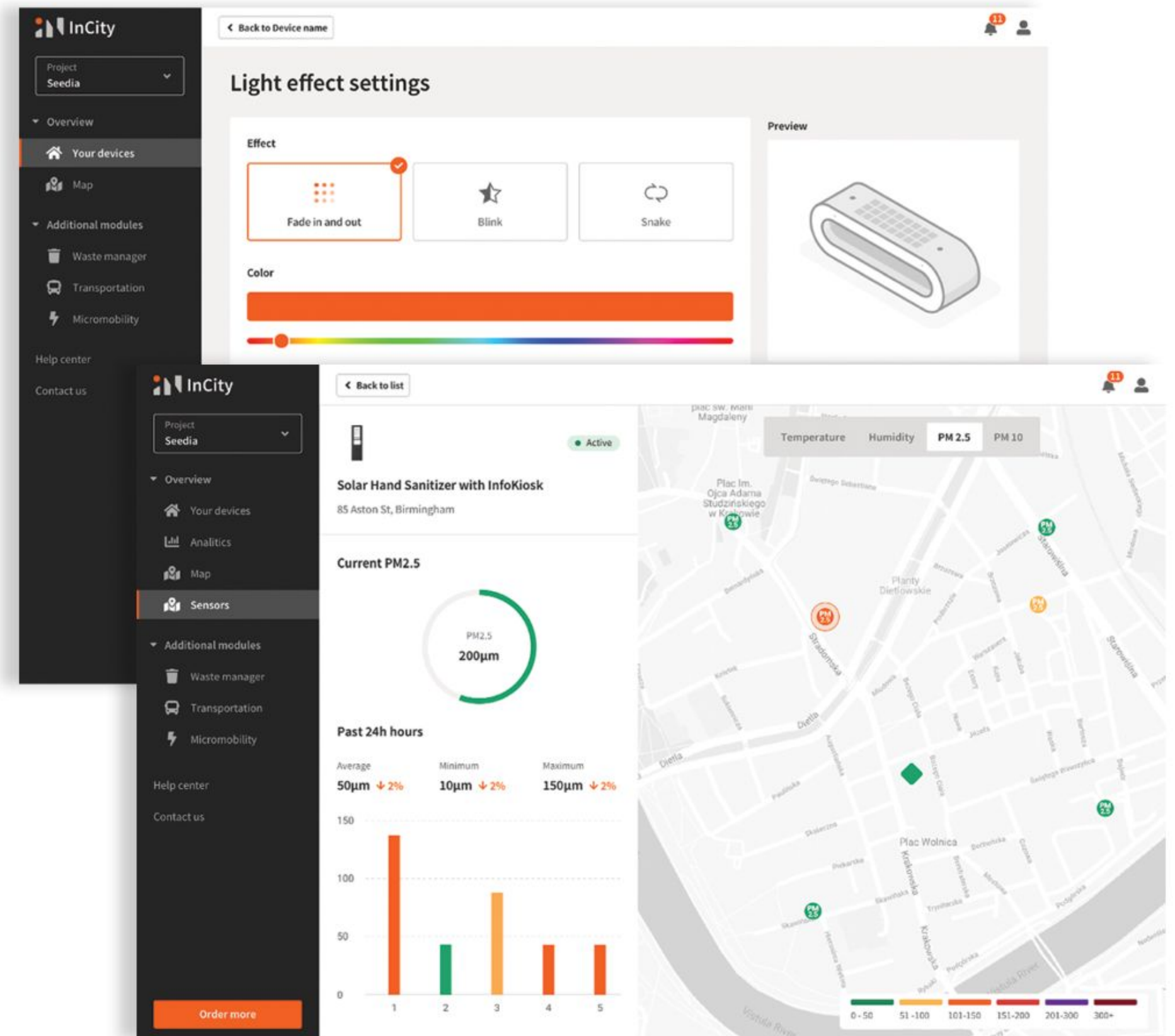
Solar shelter

- **up to 8,000 USD** of savings on installation

- **up to 2,000 USD** of savings on power consumption per year - solar energy

- **up to 1,500 USD** of savings on operation costs per year - remote management

- off-grid operation

- compatible with OOH advertising

📍 **Pruszków,** Poland

Solar shelter

for bus and tram stops

Our bus stop shelter is an energy-independent smart device that provides residents with access to up-to-date information and multimedia when using public transportation. It can work with no external power supply and can be managed remotely throughout the year, no matter the weather conditions. Our shelter is packed with features such as a display case with an e-ink screen, LED lighting, and a sound system. Underneath the canopy, you can also find a bench that is equipped with wireless chargers and USB ports.

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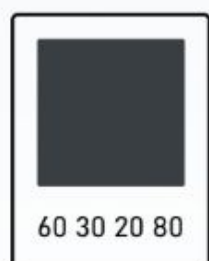
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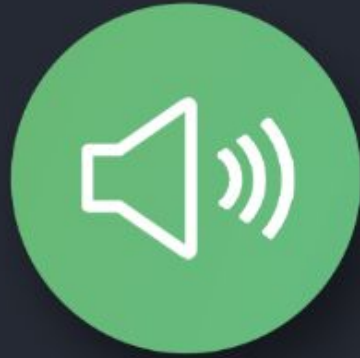Hex: #383e42
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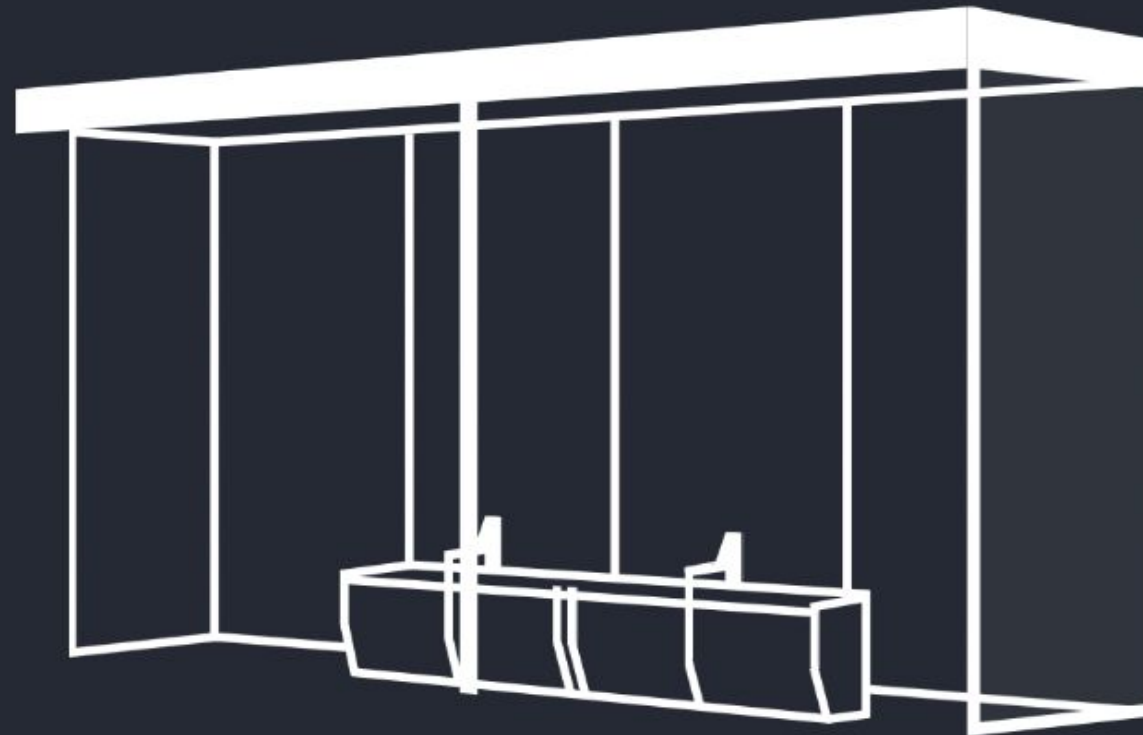
Functionality

audio system

remote management

USB ports

Wi-Fi hotspot

LED lighting

e-ink screen

wireless charger

dusk and smog sensors

jCharge

- cost reduction for e-vehicle operators

- off-grid operation

- data collecting and analysis

- supporting a green way of traveling

- optimization of parking space

- diversification of way-to-work means

- improvement of last-mile solutions

📍 **Warszawa,**
Poland

jCharge

charging stations for micro-electromobility

This charging station for electric scooters and bikes is a fully modular innovative product that was designed to boost the development of micromobility in cities. Thanks to effective solar panels our device can work free of any external power supply.
By default, the jCharge station consists of 4 poles with single or double-sided docking stands.
Each stand is equipped with a holder for scooters or a tilting arm mechanism meant for bikes.
Additionally, all parked vehicles can be secured with an e-lock. Right next to the charging stands, there is a central module that allows user authorization with QR codes or RFID cards.

off-grid

on-grid

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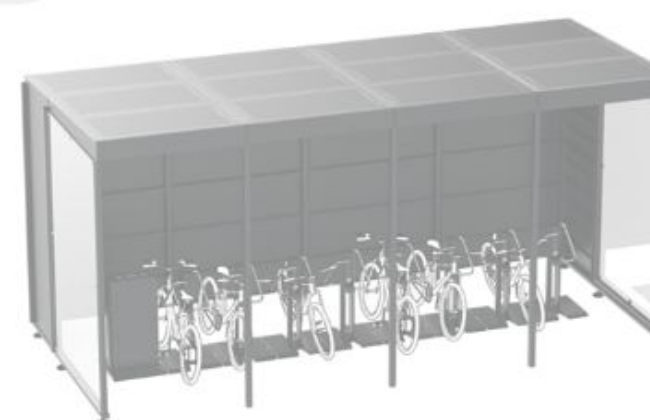RAL 7016
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jCharge
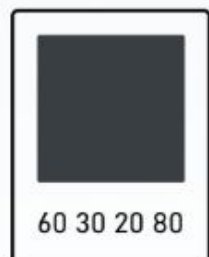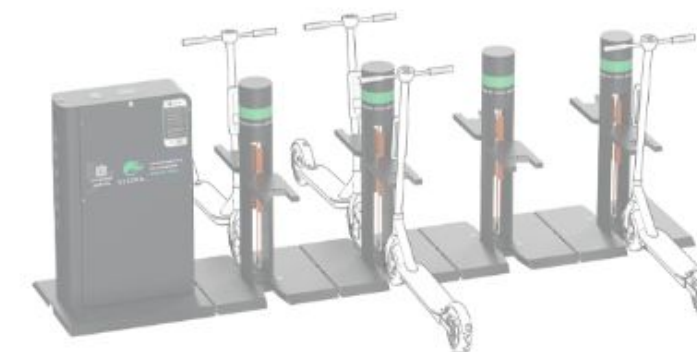
roofed versions

Our charging stations for micro-electromobility vehicles are also available in variants with a partially open canopy or container-shaped enclosed shelter. All stations can run as on-grid devices or can be additionally equipped with solar panels within off-grid and hybrid versions. There are 3 products in the lineup - a 2-sided open "Basic" canopy, a 1-sided open "Secure" canopy, and a fully closed canopy called "Prestige".
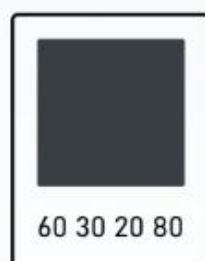
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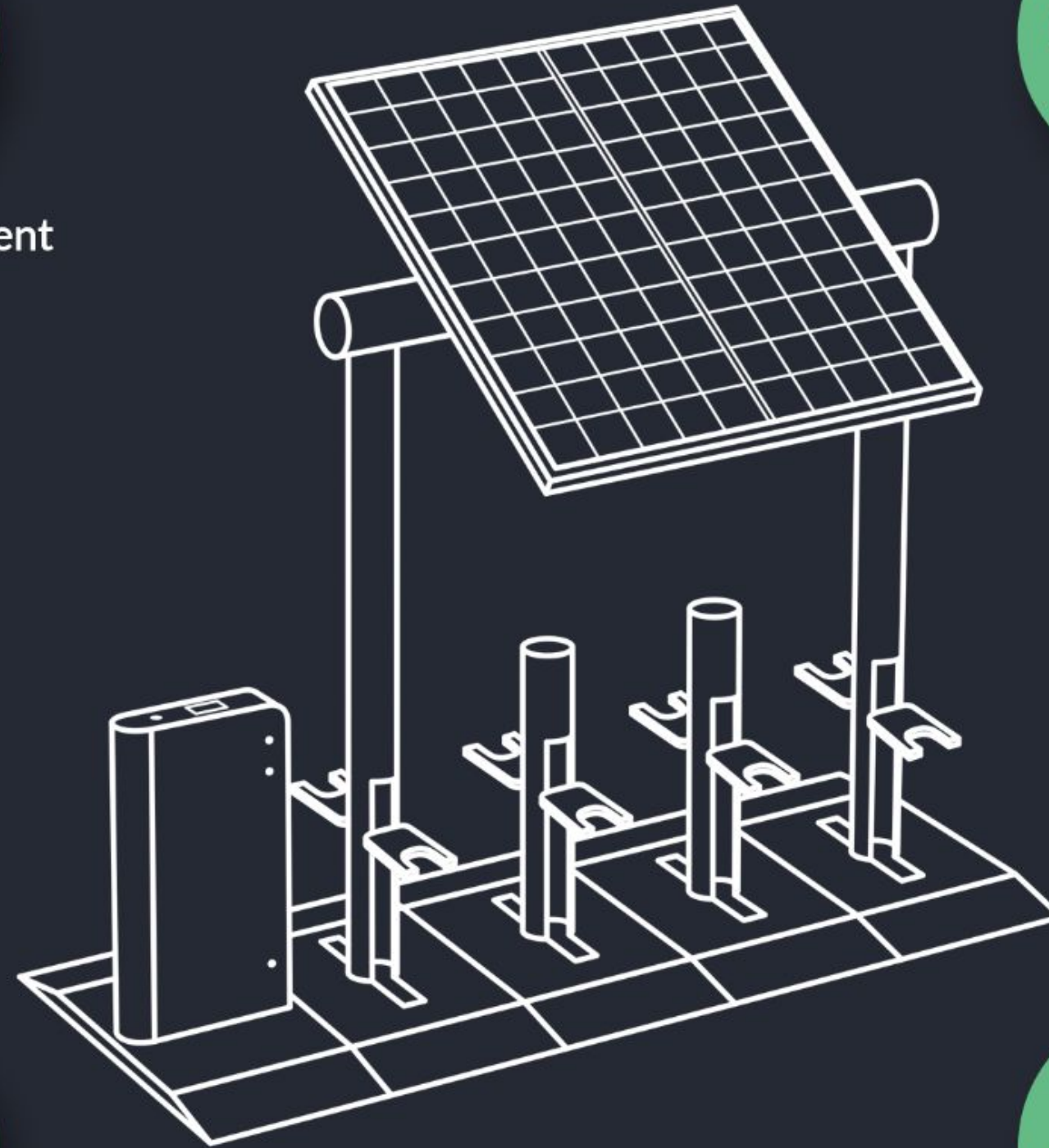Hex: #383e42
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Basic

Secure

Prestige

Functionality

remote management

versatility

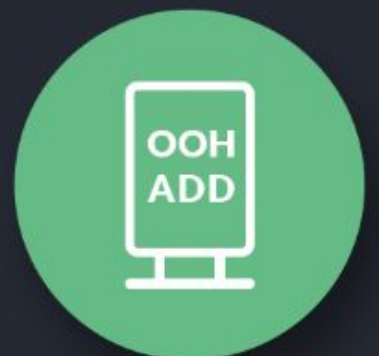modular design

off-grid operation

RFID card and QR code authorization

OOH advertising

locking mechanism

heat maps generating

InCity

management platform - mobility

- automatic timetable updating

- analysis of the number of users

- color management of LED lighting

- municipal electromobility operators adding

- automatic billing (per operator / per station)

- heat map of the station usage

- analysis of the station's daily use

- economic analysis of the station

- SDG reports for administrators
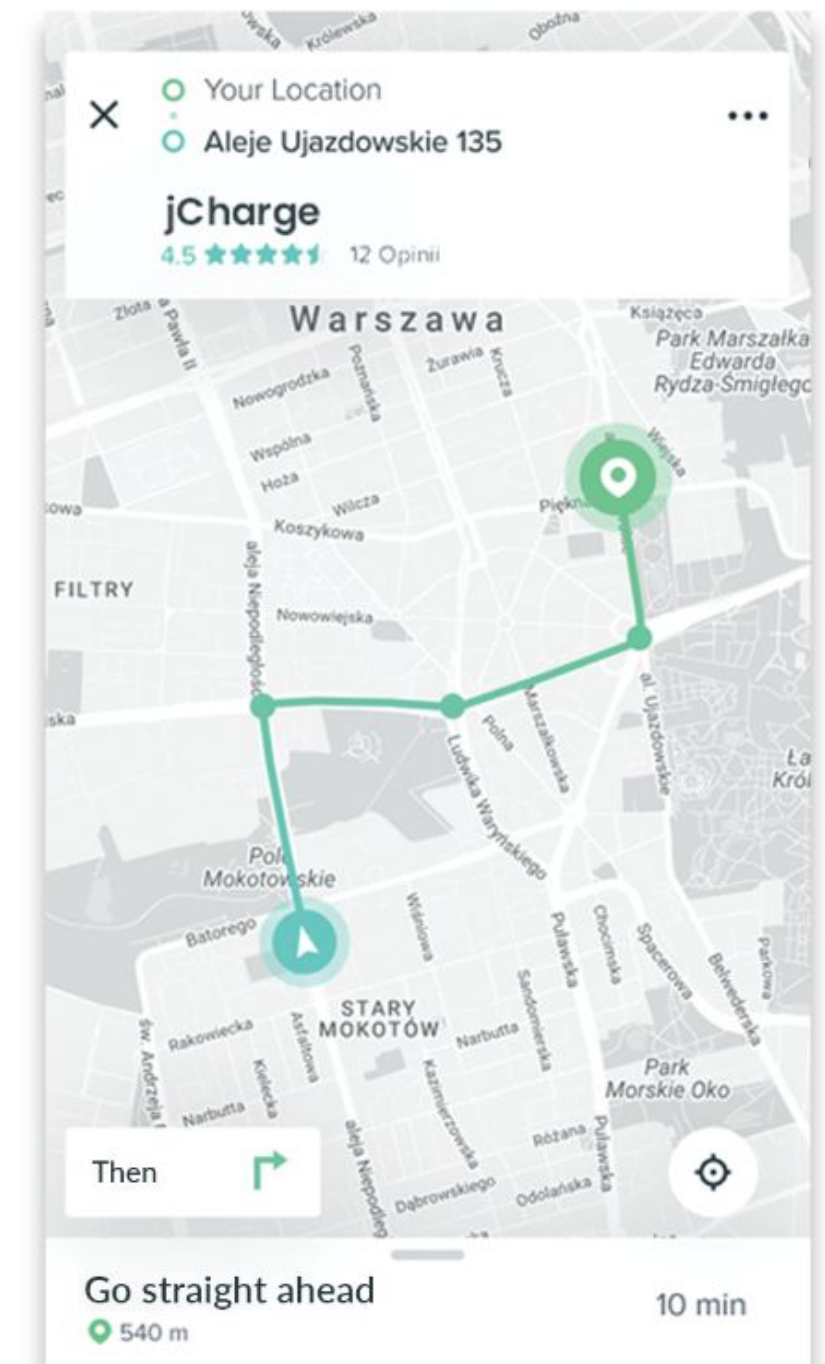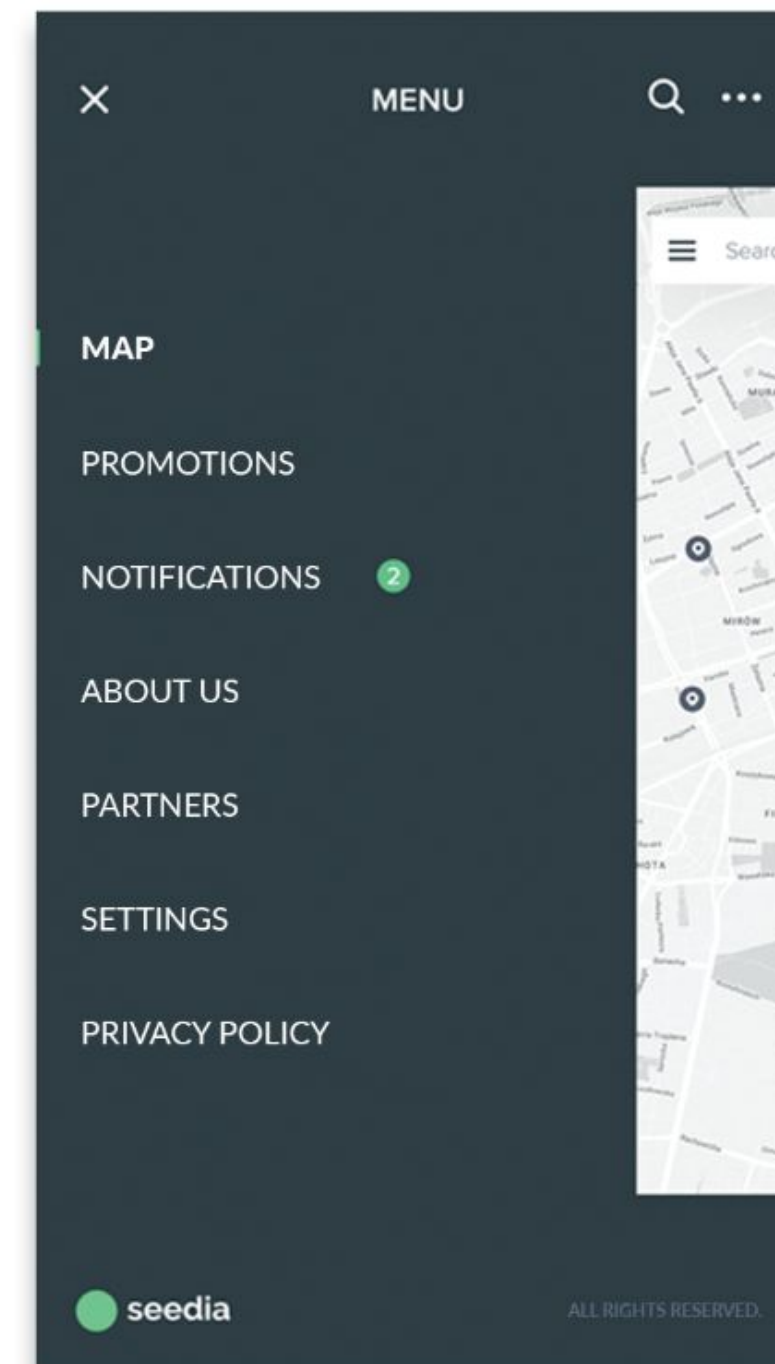
- user database management
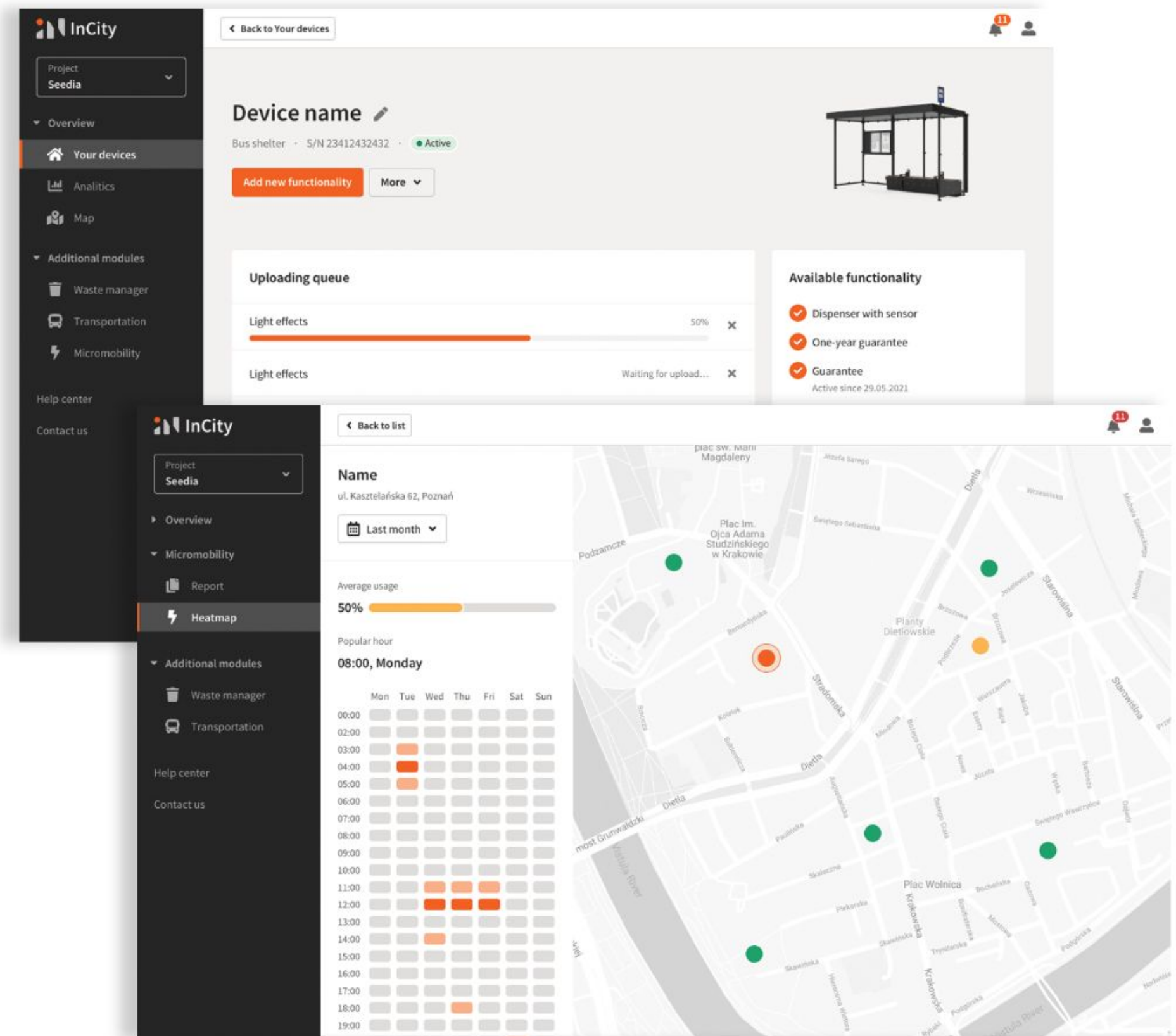
SEEDiA City

mobile app

- fault reporting module

- way-to-device navigation

- available street furniture overview and searching

- gamification module – green points and rankings

- user authorization

Transport 4.0

with SEEDiA products

- remote management system
- automatic timetable updating
- off-grid / hybrid operation
- support for green transformation in cities
- increase of comfort of mobility

Transport 4.0 stands for a new, better, and redefined quality of moving around cities. It's an easier access to sustainable mobility and the introduction of automation elements to the public transportation infrastructure.

A combination of a solar-powered bus stop shelter and a charging station for electric vehicles makes it easier for users to rely on last-mile solutions which is the remaining route section between public transport stop and their final destination.
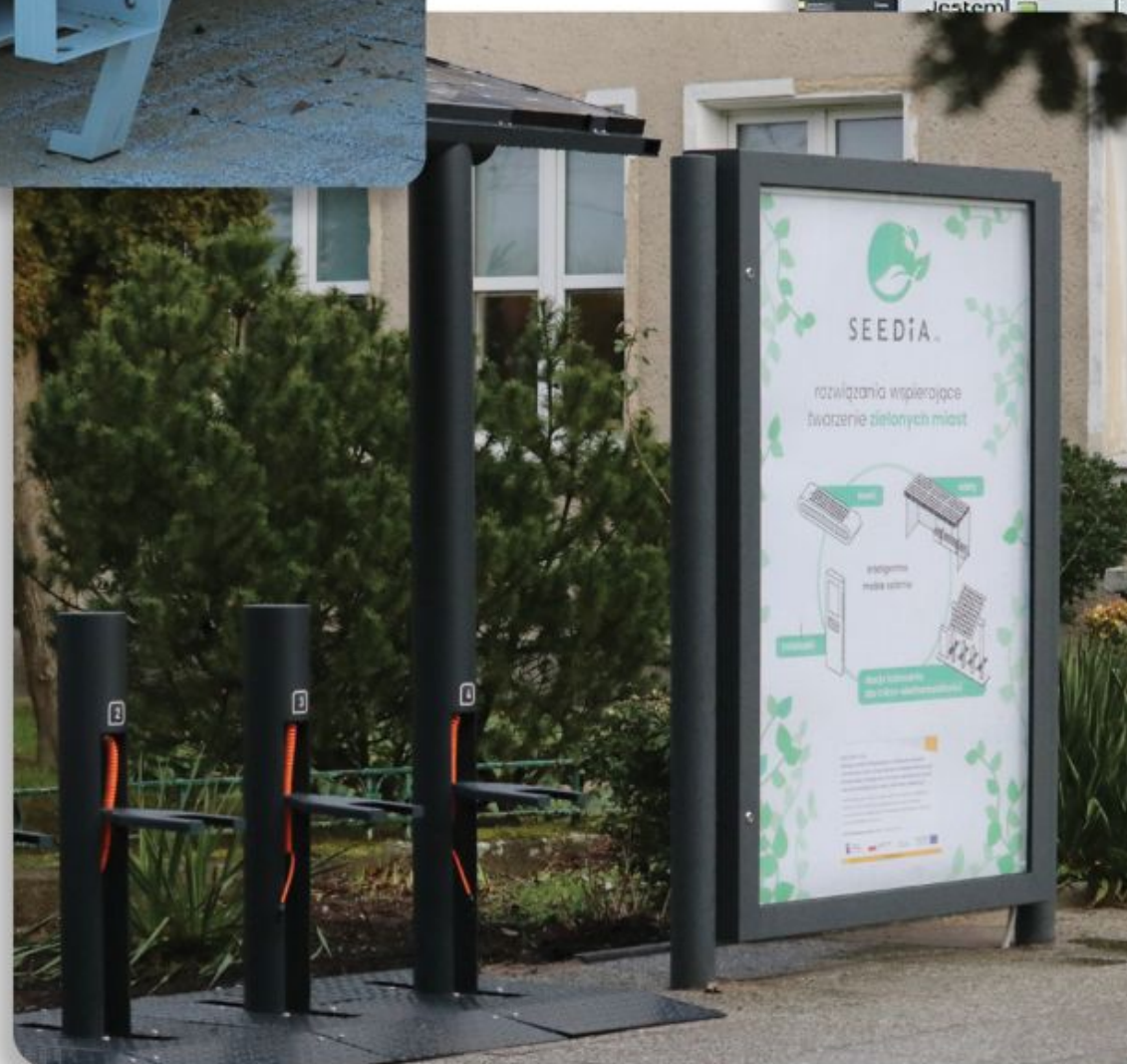
📍 **Pułtusk,**
Poland

Integrations

VIVE TEXCELLENCE

InPost
out of the box

OOH

ibombo®
.com
RIDE & BE HAPPY

Integrations

budimex

FULCO SYSTEM

PARKCASH

SMARTFACTOR

Off-grid products

comparison with regular street furniture

highly developed mobility	high assembly costs
short installation times	cabling required
zero emissions	difficulties in managing larger installations
energy independence	long awaiting times for necessary permits
autonomous operation	no targeted amenities

SEEDiA products

conventional street furniture

Implementation map

SEEDiA products

+250 cities

+30 markets
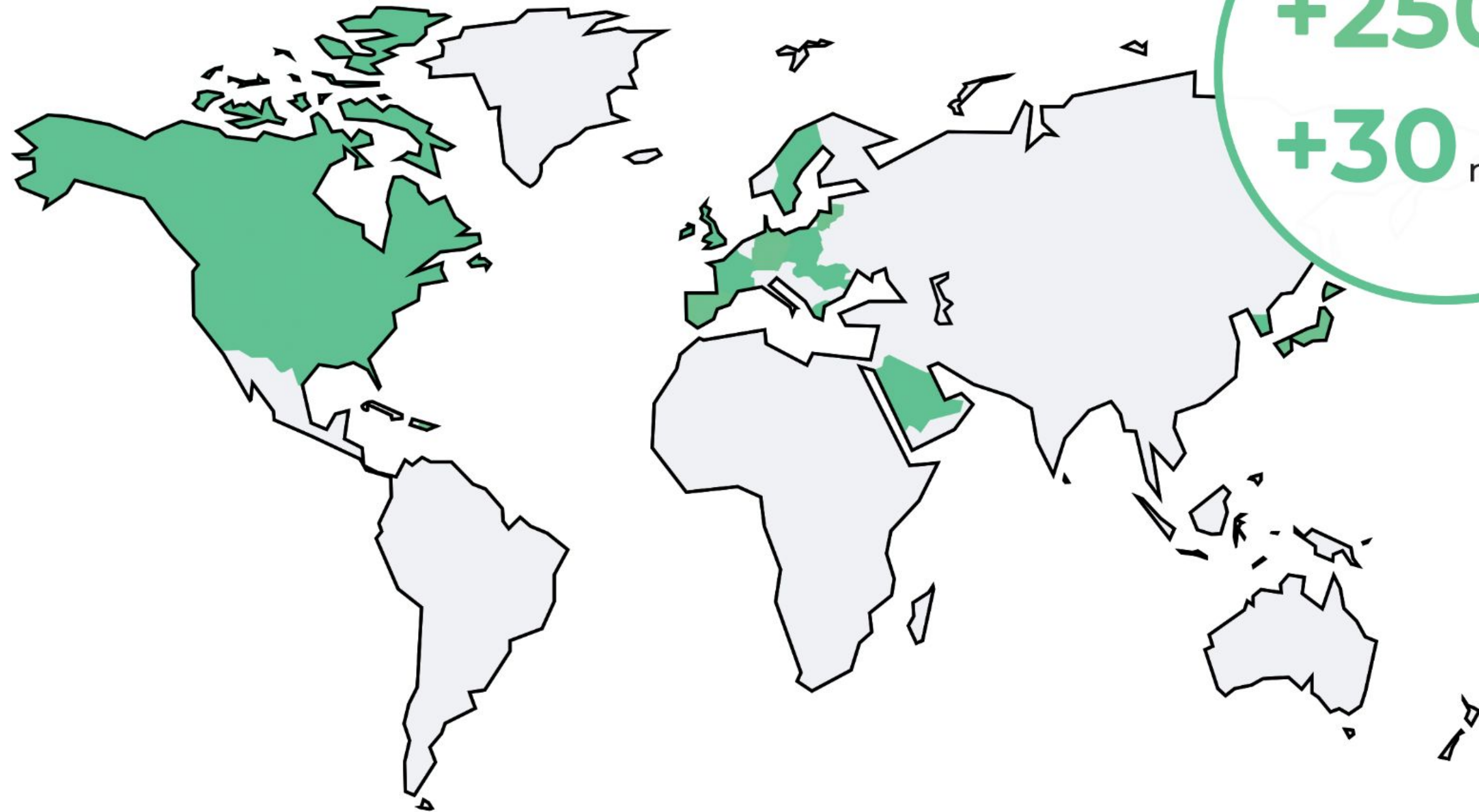
including: Poland, United Kingdom, Hungary, France, Greece, Irleland, Czech Republic, Lativa, Portugal, Romania, Sweden, Denmark, Slovakia, Moldova, Germany, Lithuania, Spain, Canada, USA, Dominican Republic, Saudi Arabia, South Korea, Japan

Customers

local governments and communes

Athens

rzeszów
stolica innowacji

Rijad

Szczecin

Bucharest

Takasaki

Toronto

Santo Domingo

Rīga

Constanța

UNDP

Kalisz

Norwich

+50
other cities

Customers

corporate clients

communication

maxcom
joy of communication

orange

ams

office & HoReCa

SKANSKA

AstraZeneca

CBRE

Nordea

ATRIUM
BIAŁA
Z MYŚLĄ O TOBIE

KLEPIERRE

logistics & manufacturing

CATERPILLAR

BOSCH

TAURON

InPost
out of the box

budimex

ibomba.com
RIDE & BE HAPPY

universities

UNIWERSYTET
WARSZAWSKI

AGH

UEA University of
East Anglia

**POLITECHNIKA
GDAŃSKA**

Manufacturing

and certification

Our solar-powered street furniture is designed and produced in Poland.

certificates

IK09 declaration

IP55 declaration

CE-compliant

registration in Community design

SEEDiA offices in
Cracow
Kielce
Warsaw
Szczecin

hand assembled in
Bielsko-Biała
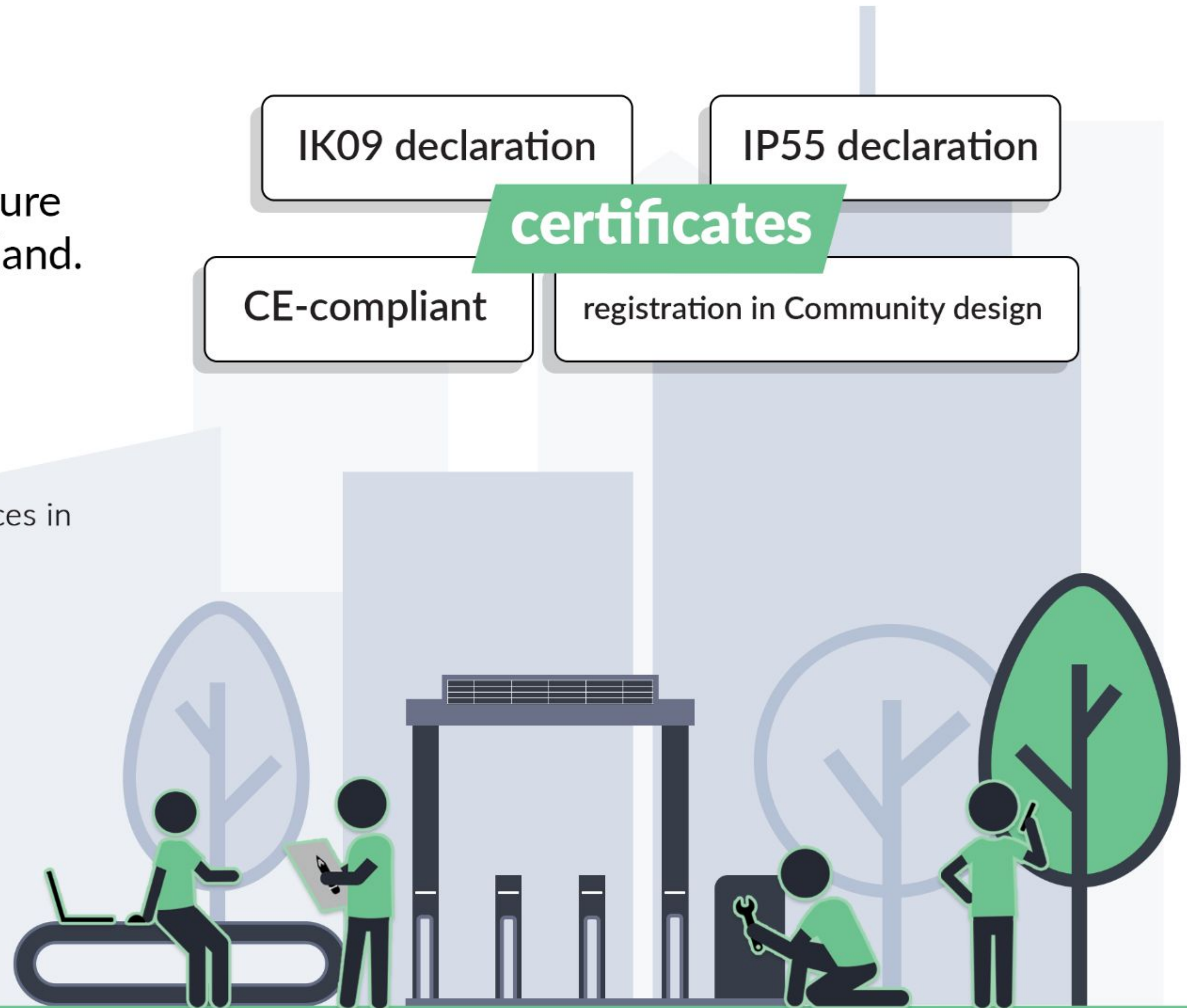
Testimonials

Collaboration with Seedia and the opportunity to develop a joint offering, supporting micromobility, and further reducing the carbon footprint of the InPost logistics system makes it easier to engage in dialogue with cities and landowners where we install our machines. This allows us to install in more locations, and users can access the InPost Parcel Locker device by using bicycles or electric scooters to reach it.

" Rafał Brzoska
CEO InPost Group

Seedia's products align perectly with Rzeszów's vision as an innovative and environmentally friendly city. They also provide valuable data about the city's operations.

Konrad Fijołek "
Mayor of Rzeszów

Klepierre Group has chosen to collaborate with Seedia by implementing the solar charging station jCharge at Sadyba Best Mall, thereby supporting enviromentally friendly transportation. This innovative solution not only facilitates the charging of electric scooters but also aligns seamlessly with our Act4Good™ strategy, promoting sustainable development.

" Piotr Niekraszewicz
SC Manager Klepierre

Achievements

competition finalist
Good design 2018
solar bench City Classic

Orange Fab
Best Startup 2018

Green Product of the Year
**PLGBC Green Building
Awards 2018**
solar bench Future

„Urban Environment" finalist
**8. Smart City Expo
in Barcelona**
SEEDiA Future City
ecosystem in Cracow

NXP Award
at Innovex 2024
Pitch Contest

**The K-Startup
Grand Challenge 2020**
TOP 30 teams

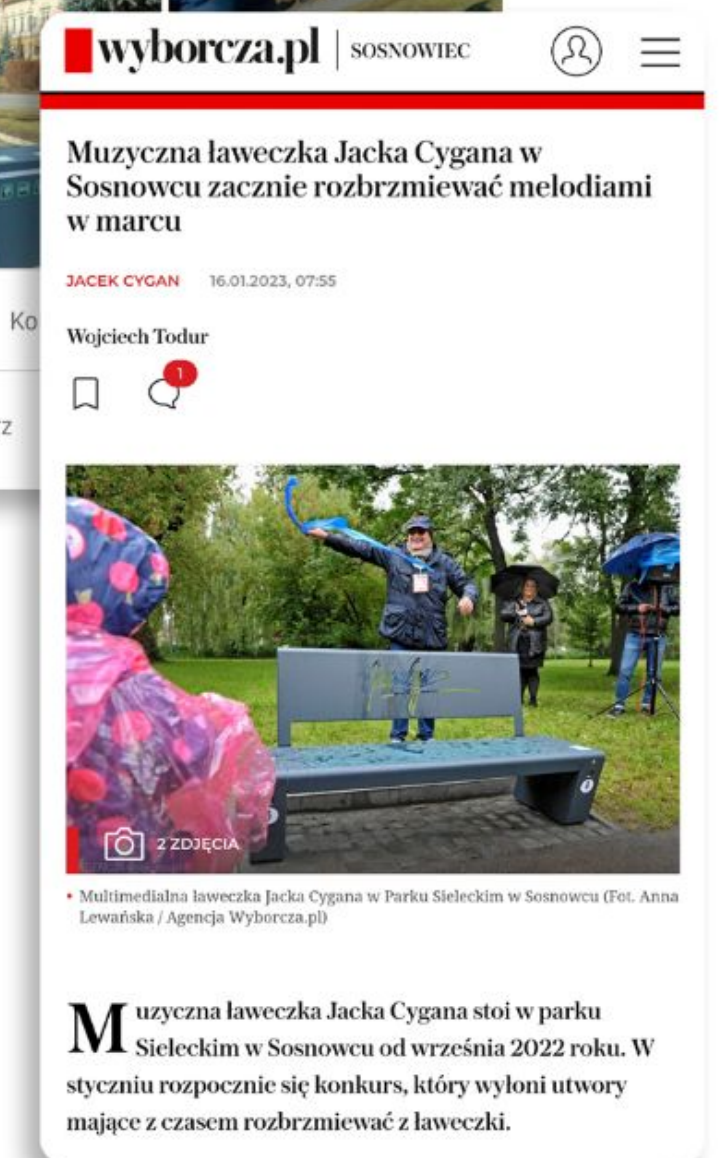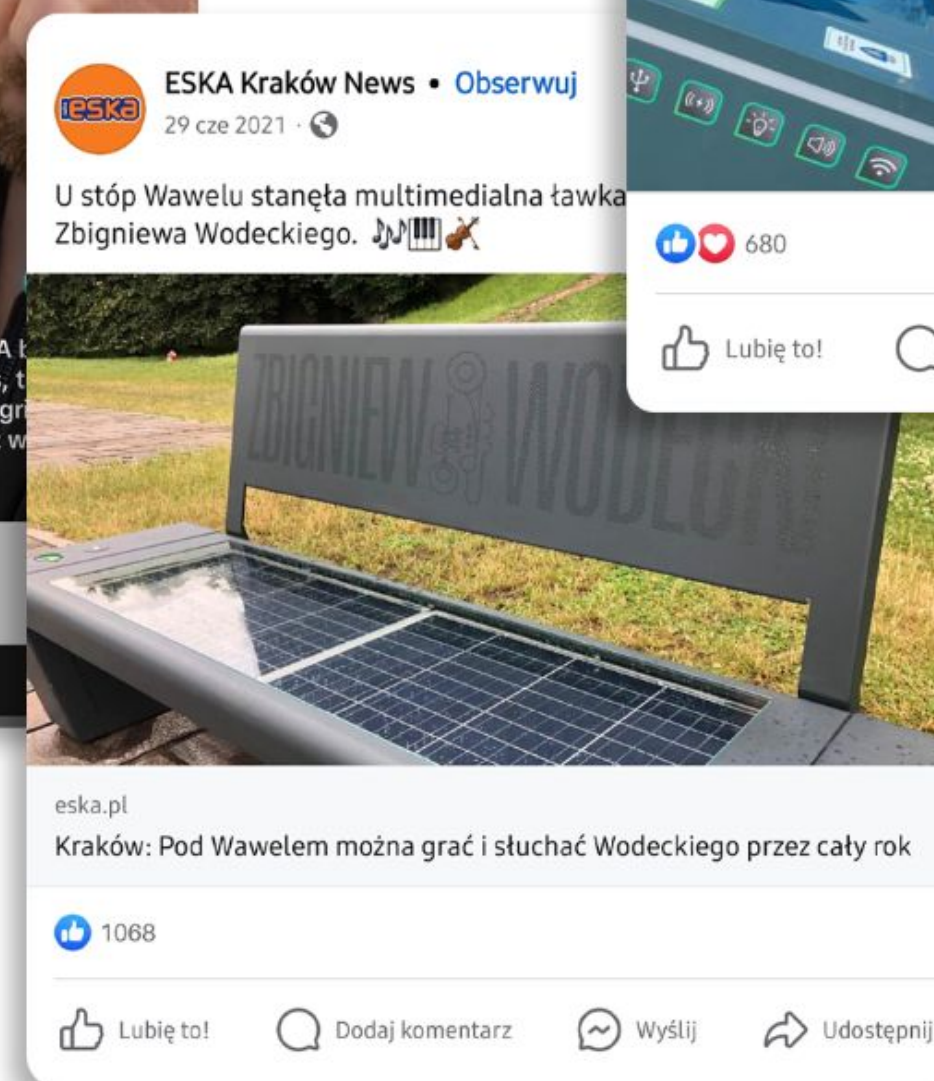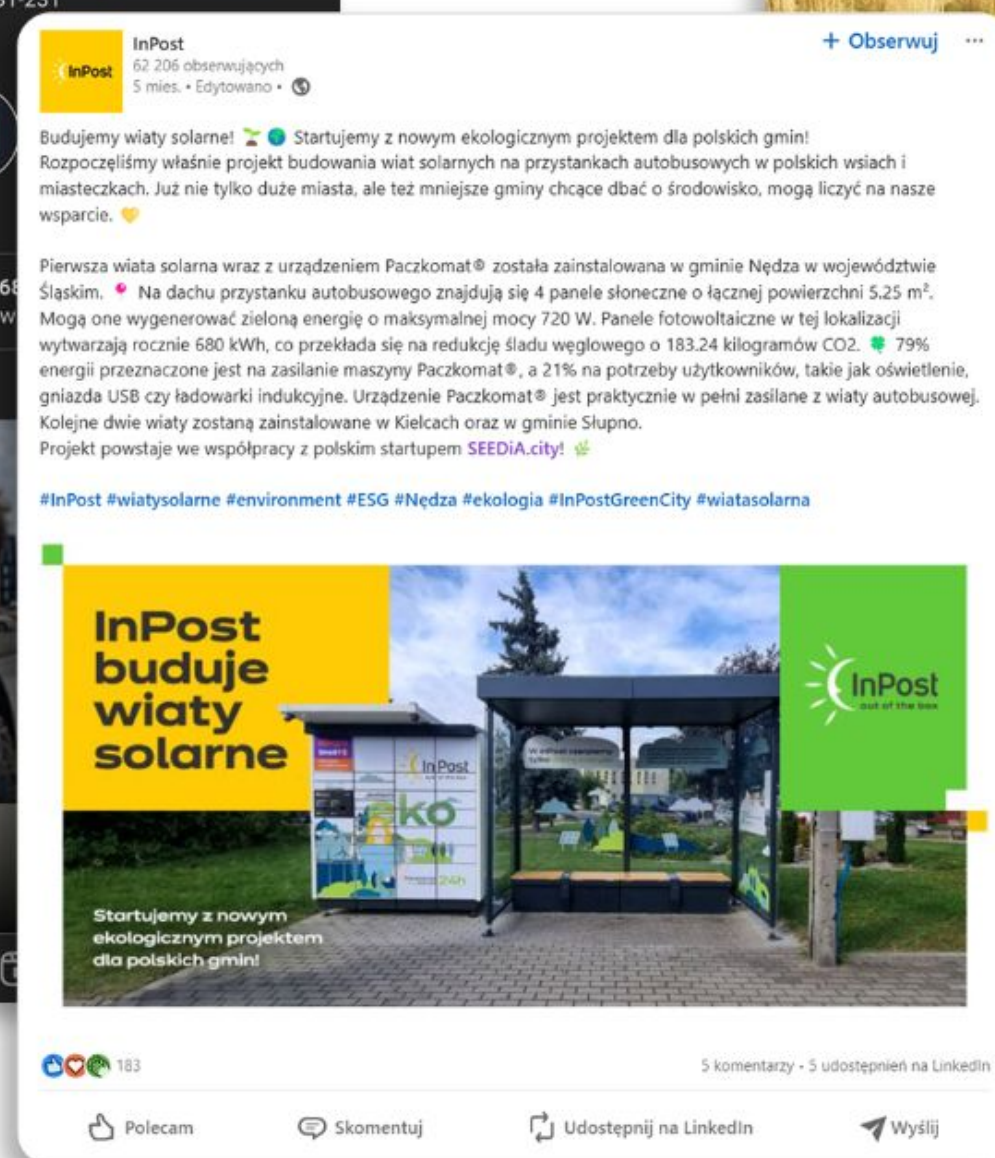**Carbon Footprint
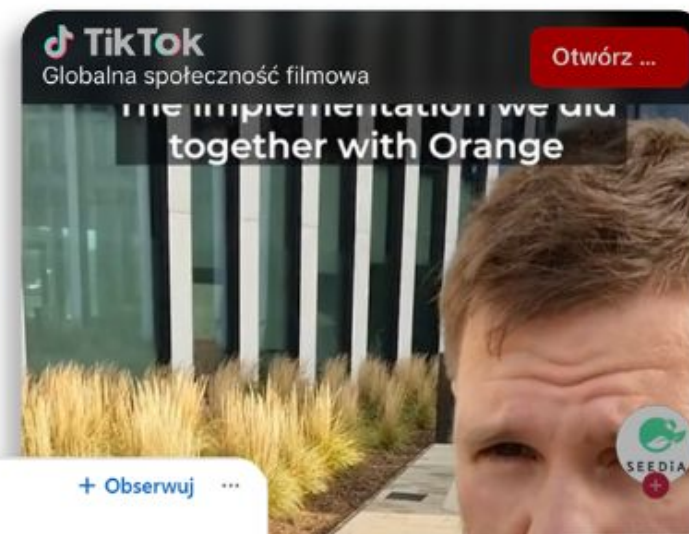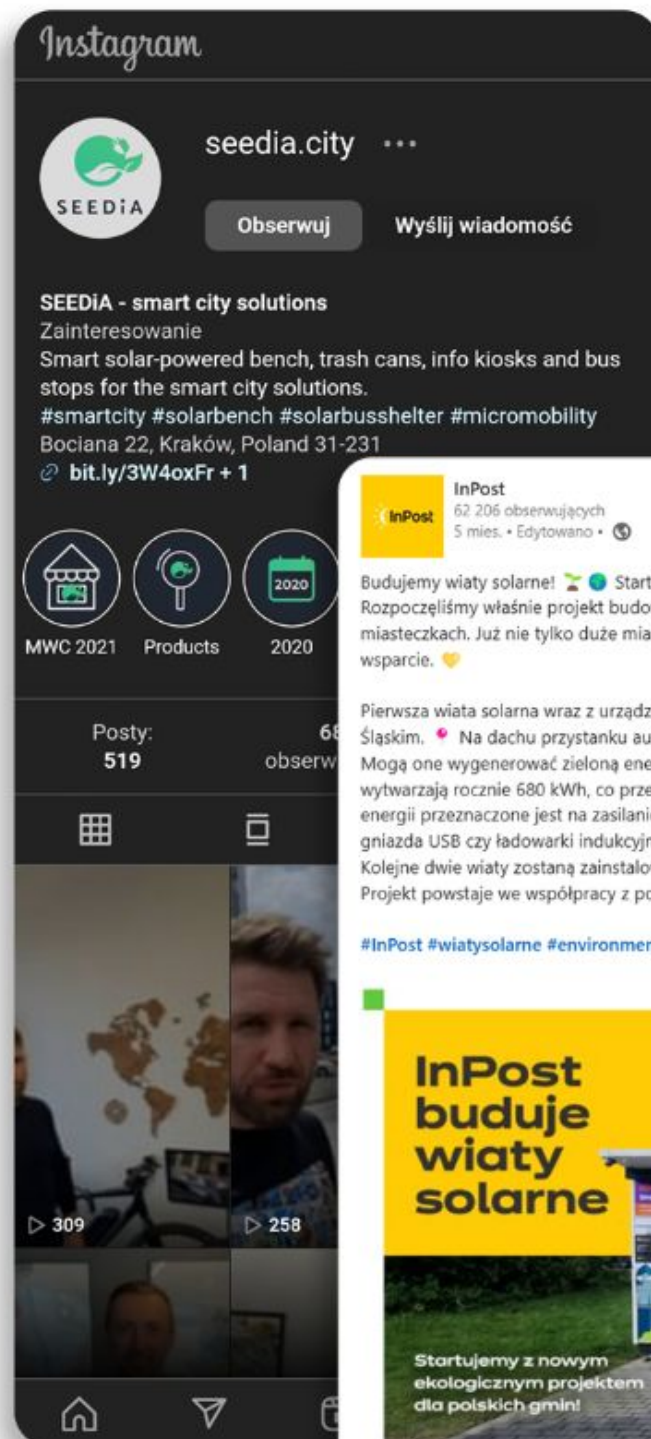Summit 2020**
innovations
in public space

competition finalist
Good design 2020
line of disinfecting
liquid dispensers

best product
Green Energy Congress
Cracow 2021

Media

publications: Forbes • BUSINESS INSIDER • MY COMPANY • NATIONAL GEOGRAPHIC

interia • MAMSTARTUP • cyfrowa.rp.pl

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