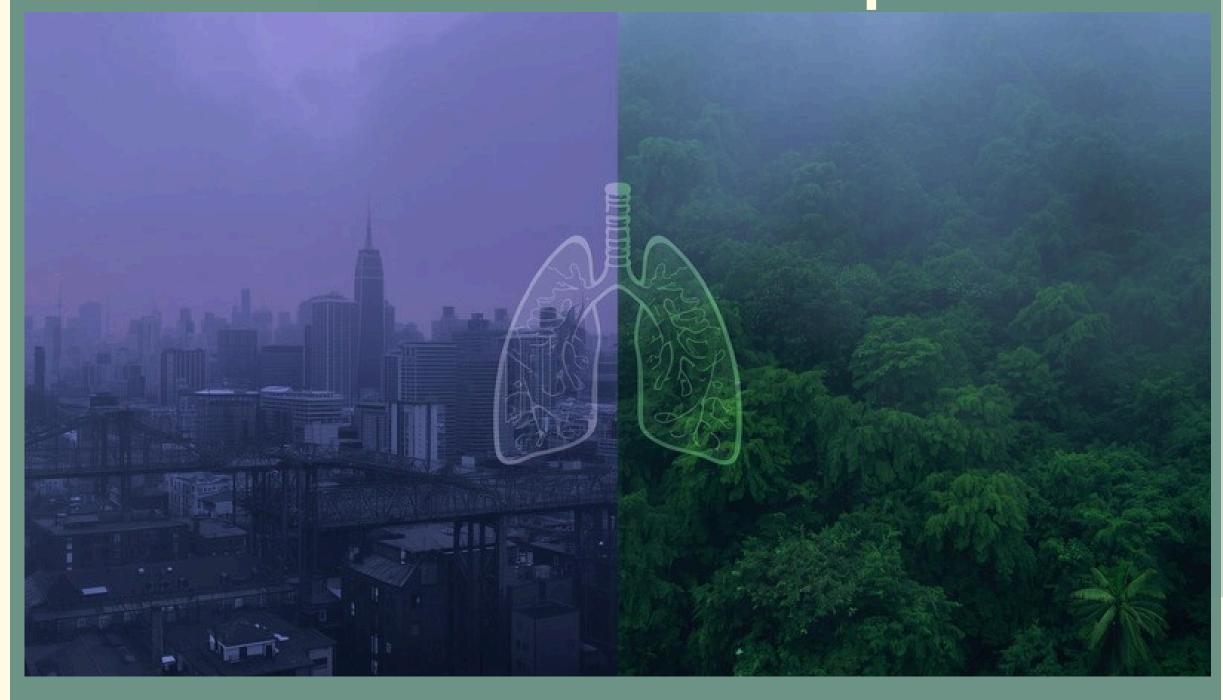


If Pollution Were Purple...



WE BREATHE 11,000 LITERS
OF AIR EVERY DAY

IN POLLUTED CITIES, IT'S FULL OF INVISIBLE KILLERS

IF POLLUTION WERE PURPLE SMOKE, WE'D PANIC

SENSOR FOREST: MAKING THE INVISIBLE, VISIBLE



The Urban Climate Problem

- Air pollution kills 29,000 people annually in Romania (EU data).
- Cities lack enough green spaces \rightarrow overheating & poor air quality.
- Environmental data is invisible \rightarrow citizens can't act on what they don't see.
- Climate education is abstract \rightarrow kids learn theory, not experience.



EUROPE INVESTS BILLIONS IN CLIMATE-TECH & SMART CITIES



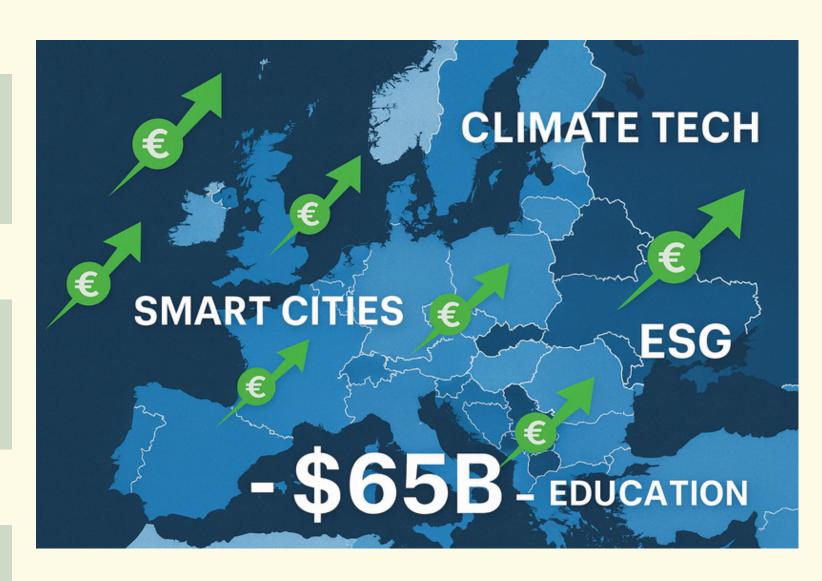
SCHOOLS NEED INTERACTIVE CLIMATE EDUCATION



COMPANIES NEED VISIBLE ESG & CSR SOLUTIONS



CITIES MUST ADAPT TO POLLUTION & HEATWAVES





OUR SOLUTION: SENSOR FOREST

- 1. DENSE URBAN MICRO-FORESTS (MIYAWAKI METHOD): 30x FASTER GROWTH, 300% MORE BIODIVERSITY.
- 2. IOT ENVIRONMENTAL SENSORS: CO₂, AIR QUALITY, SOIL, HUMIDITY, TEMPERATURE.
- 3. INTERACTIVE APP & DASHBOARDS: DATA + GAMIFIED EDUCATION FOR SCHOOLS, FAMILIES & COMPANIES.



NATURE + SENSORS + EDUCATION = IMPACT

POTENTIAL

- ROMANIA EUROPE
- PILOT 2025: 2,400 M² SENSOR FOREST IN ARAD
- 2026-2027: EXPAND TO 3 MORE ROMANIAN CITIES VIA SCHOOLS & MUNICIPALITIES
- BY 2030: CREATE A NATIONAL NETWORK OF INTERCONNECTED SENSOR FORESTS
- BEYOND 2030: EXPORT MODEL TO EUROPEAN SMART CITIES & STEM EDUCATION
- MODULAR MODEL: SCALABLE FROM 200 M² SCHOOL FORESTS → 2,000 M² CITY FORESTS
- TARGETING A SHARE OF THE €65B GLOBAL CLIMATE-TECH & EDTECH MARKET

CUSTOMER GROUPS CITY HALL SCHOOL COMPANY NGO FAMILY

Municipalities & Public Authorities

- Buy: Urban Sensor Forest packages (planting + sensors + monitoring).
- Need: Green infrastructure, adaptation to climate change, citizen engagement.

Schools & Universities

- Buy: Educational forests, STEM content, dashboards, kits.
- Need: Hands-on environmental education aligned with curriculum.

Companies (CSR & ESG)

- Buy: Sponsored forests with branding + measurable ESG reports.
- Need: Visible, credible sustainability projects.

NGOs & Local Communities

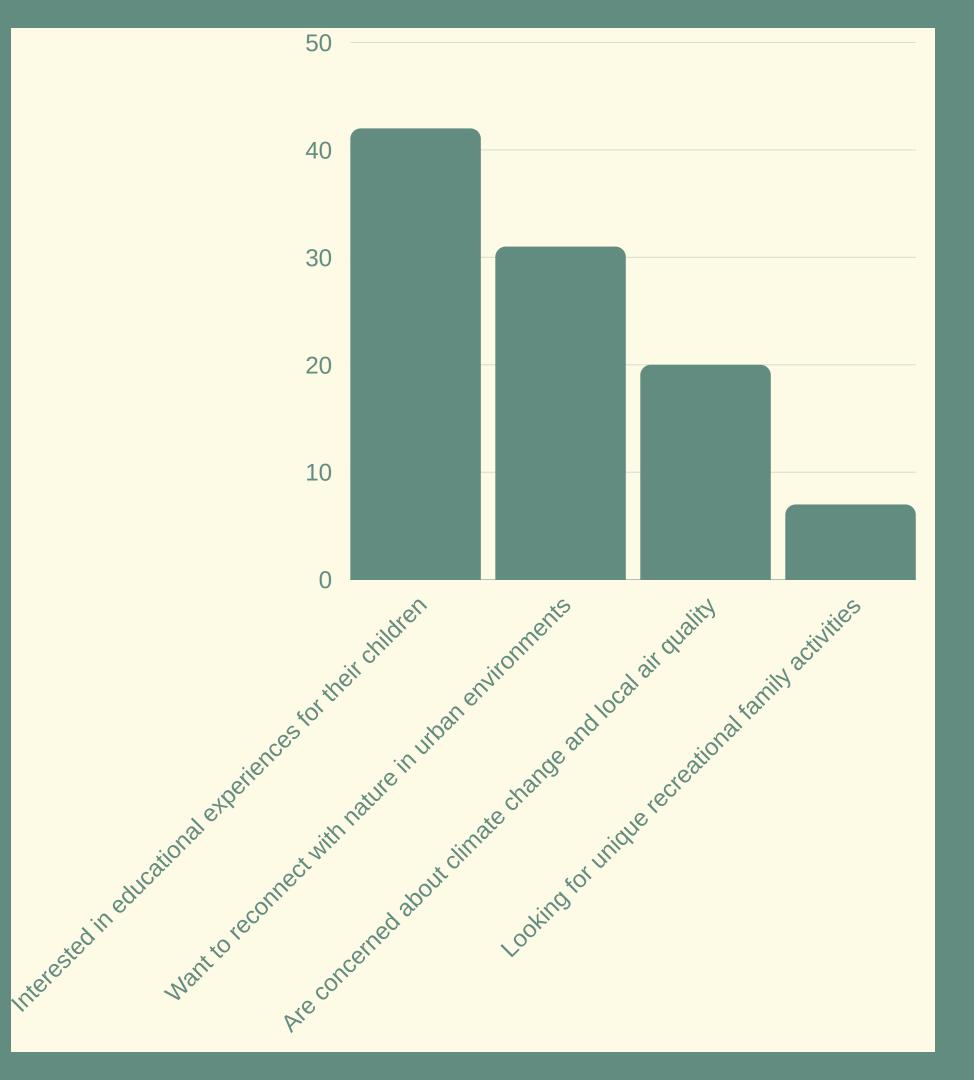
- Buy: Mini-forests & engagement kits.
- Need: Community cohesion & environmental action.

Families & Individuals (B2C)

- Buy: DIY eco-kits, workshops, mobile app.
- Need: Educational and fun ways to connect kids with nature.

The state of the s

Survey Market



PURCHASE MOTIVATION

Why do people support our green-tech initiative?



Educational Experience

Bring Nature Closer

Educational Trails & Interactive Panels

Our microforest will feature a sensory path and educational stations explaining biodiversity, CO₂ impact, and the role of native vegetation. Visitors will explore, touch, scan and learn through a dedicated mobile appand IoT-connected displays.



We're building an engaging digital experience to support our educational and ecological mission.

Coming soon:

- Website with live sensor data from the microforest
 - Virtual guided tours & biodiversity maps
 - Interactive dashboards for schools & families
 - ◆ Tools for climate education & CO₂ tracking

PERSONAL ADVICE

Personalized recommendations for choosing the right plants based on the space, lifestyle, and experience level of the client.

LANDSCAPE DESIGN

Consulting and planning for green space arrangements – urban gardens, balconies, terraces, or ecological yards.

DECORATIVE POTS

Handmade or customized products created in collaboration with local artists, ideal for a unique and sustainable decor.

WORKSHOPS

Interactive workshops for children, adults, and companies (CSR), focused on ecological education, planting, and plant care.

Competition

- NGOs / Reforestation projects → focus on planting trees, no tech/data
- Air monitoring platforms \rightarrow provide data, but no nature or education
- Conventional education programs \rightarrow theoretical, not experiential

Differentiation

- First solution in Romania (and rare in Europe) to combine Nature + IoT + Education in one scalable model
- Gamified & data-driven \rightarrow visible impact for schools, families, companies
- Creates living classrooms that measure, teach, and inspire action

FINANCES & REVENUE MODEL

I. PILOT COSTS (ARAD 2025)

FOREST PLANTING & MAINTENANCE (2,400 M² MIYAWAKI): €30,000 IOT SENSORS & INSTALLATION (AIR, CO₂, SOIL, WEATHER): €20,000 PLATFORM DEVELOPMENT (DASHBOARD, MOBILE APP MVP): €15,000 WORKSHOPS, EDUCATIONAL MATERIALS, COMMUNITY EVENTS: € 5,000

TOTAL PILOT COST: €70,000

II. REVENUE STREAMS

- URBAN FOREST PACKAGES (B2B/B2G): €5K-€20K/PROJECT
- MUNICIPALITIES, COMPANIES, SCHOOLS PURCHASE TURNKEY SENSOR FORESTS.
- SAAS SUBSCRIPTIONS: €29-€199/MONTH
- ACCESS TO DASHBOARDS, ESG/CSR REPORTS, AND OPEN DATA.
- EDUCATIONAL ECO-KITS (B2C/B2B): €50-€200/KIT
- FAMILIES, TEACHERS, NGOS PURCHASE KITS WITH SENSORS & GUIDES.
- CSR WORKSHOPS & EVENTS: €300-€1,000/WORKSHOP
- CORPORATE TEAM-BUILDING, SCHOOL PLANTING DAYS.
- SPONSORSHIPS & GRANTS: COMPLEMENTARY FUNDING FOR SCALE (NEXT: PHOTONQBOOST WARSAW 2025-S2 BIOTECH)



FINANCES & REVENUE MODEL 3-YEAR PROJECTIONS

2025 (PILOT YEAR):

REVENUE: €25K (1 CITY FOREST + 100 KITS + 5 WORKSHOPS).

EXPENSES: €70K (PILOT SETUP).

NET: -€45K (COVERED BY CLIMACCELERATOR & CO-FUNDING).

2026:

REVENUE: €120K (3 NEW FORESTS + 400 KITS + 20 WORKSHOPS + SAAS SUBS).

EXPENSES: €85K NET: +€35K

2027:

REVENUE: €250K (5-6 CITY FORESTS + 1K KITS + 50 WORKSHOPS + SAAS GROWTH).

EXPENSES: €150K NET: +€100K



Statistics for Arad

YEAR	CO2 ABSORPTI ON (tons/year)	URBAN TEMP (*C)	PM2.5 (ug/m3)	SOIL ORGANIC MATTER (%)	YEAR (estimated after implementa tion)	CO2 ABSORPTI ON (tons/year)	URBAN TEMP (*C)	PM2.5 (ug/m3)	SOIL ORGANIC MATTER (%)
2022	138.8	33.16	18.8	1.73	2026	180	32.8	17	2
2023	144	33.33	18.4	1.76	2027	200	32.5	16	2.2
2024	150	33.5	18	1.8	2028	220	32.2	15	2.5

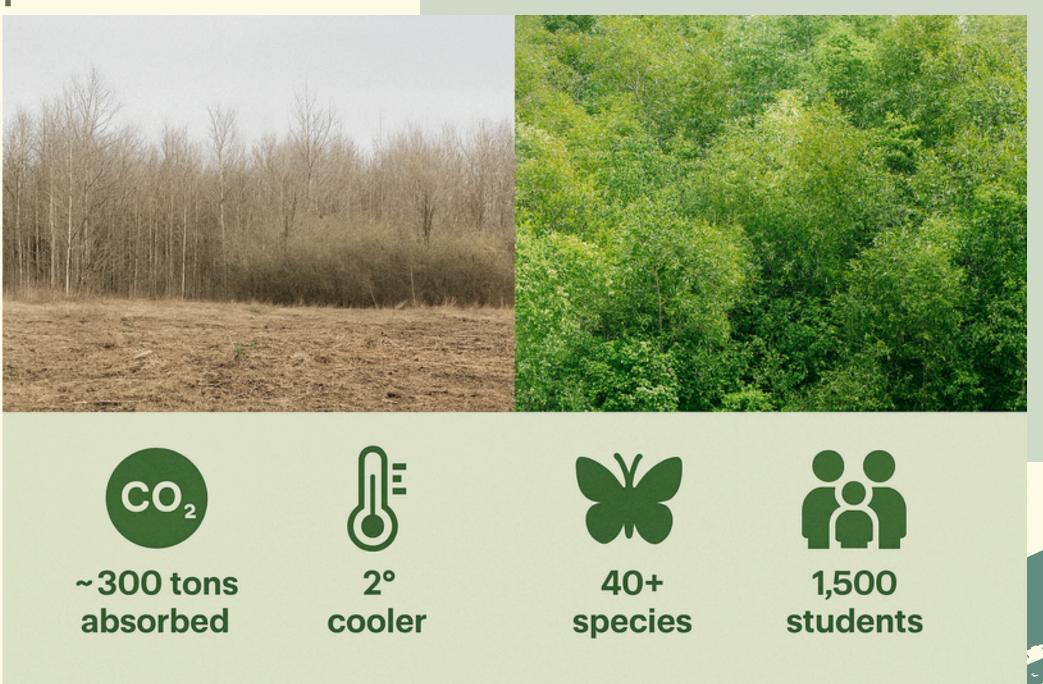
1. CO2 SEQUESTRATION

2. URBAN COOLING EFFECT

3. AIR QUALITY IMPROVEMENT

4. SOIL & BIODIVERSITY REGENERATION

5. CLIMATE EDUCATION IMPACT



OUR TEAM



TOMA IOANA ZENI Entrepreneur

BACKGROUND IN IT & MANAGEMENT

10+ YEARS IN DIGITALIZATION, EDUCATION AND EU FUNDING

EXPERIENCED TRAINER & PROJECT MANAGER

PASSIONATE ABOUT CLIMATE EDUCATION

(AND A MOTHER OF TWO - PERSONAL MOTIVATION).

COLLABORATORS

- IT DEVELOPER BUILDING PLATFORM & IOT INTEGRATION
- STEM EDUCATORS CREATING INTERACTIVE CURRICULUM CONTENT
- LANDSCAPE ARCHITECTS & HORTICULTURISTS - MIYAWAKI METHOD SPECIALISTS
- NGOS & VOLUNTEERS -COMMUNITY ENGAGEMENT & PLANTING ACTIVITIES

ADVISORS AND NETWORK

MENTORS FROM
CLIMACCELERATOR,
PHOTONQBOOST,
ACADEMIA DE
SUSTENABILITATE

PARTNERSHIPS WITH SCHOOLS, COMPANIES, MUNICIPALITIES AND LOCAL COMMUNITIES IN ARAD & WESTERN ROMANIA

THANK YOU FOR YOU ATTENTION!

TOMA IOANA ZENI

PĂDUREA CU SENZORI