



**EVERGREEN**  
vertical greenery monitoring

# Kick-off event EVERGREEN

Introduction to the EVERGREEN project

Bert Belmans, UA

# Program day 1

12u – 13u: Welcome with lunch

13u – 13u10: Welcome by IUTA (Stefan Haep, IUTA)

**13u10 – 13u30: Introduction to the EVERGREEN project (Bert Belmans, UA)**

13u30 – 14u: Introduction of the project partners

14u – 15u: Detailed overview of the work packages

15u – 15u15: Coffee break

15u15 – 15u45: Practical information regarding the project

15u45 – 16u30: Discussion with stakeholders

16u30 – 17u: Tour IUTA

17u – 18u30: Reception and closing of day 1

# EVERGREEN (Enhancing VERTical GREENing Systems Resilience and Characterization through Dedicated Monitoring Techniques)

**BUSINESS AS USUAL: Sporadic monitoring, prone to human error**

Late detection of stress in plants  
Higher plant failure and maintenance costs  
Co-benefits difficult to quantify



**EU - CORNET: Continuous monitoring of plants, substrate and irrigation with various monitoring systems**

Timely detection of stress in plants  
Lower plant failure and maintenance costs  
Co-benefits quantifiable from preliminary design



# Key project goals

→ Key concerns currently: high maintenance costs, long-term performance uncertainties, lack of subsidies, and integration in regulations

## Project goals:

1. Improving monitoring and resilience > VGS Dedicated Monitoring
2. Data collection for informed decisions
3. Advancing continuous monitoring



# EVERGREEN

vertical greenery monitoring

## Healthy façade greenery

- = **Monitoring** to optimize operation and maintenance
- = focus on **Living Wall Systems & GF in planter boxes**
- = operational costs and maintenance costs ↘
- = credibility and affordability ↗
- = new revenue models
- = guidelines for maintenance

## Guaranteed performance

- = **Monitoring** to provide a “calculated” estimate regarding “performance”\*
- = focus on characterization of **all VGS types**
  - informing clients ↗
  - subsidy and licensing policy ↗
  - more accurate calculations of benefits

\* Thermal cooling, fine dust, acoustic, biomass...

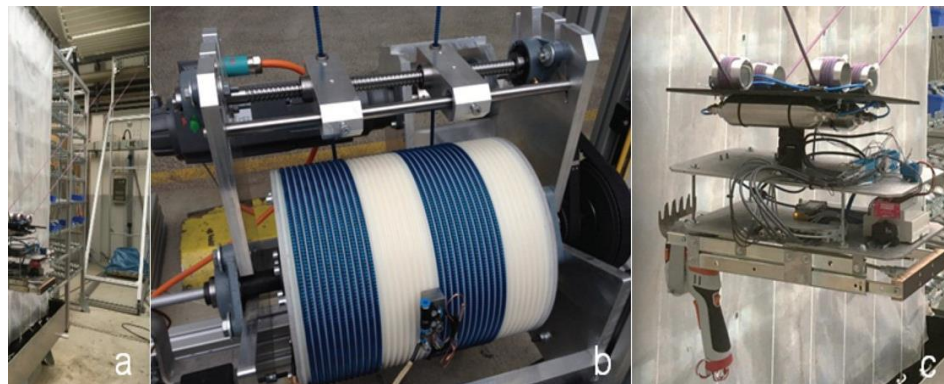
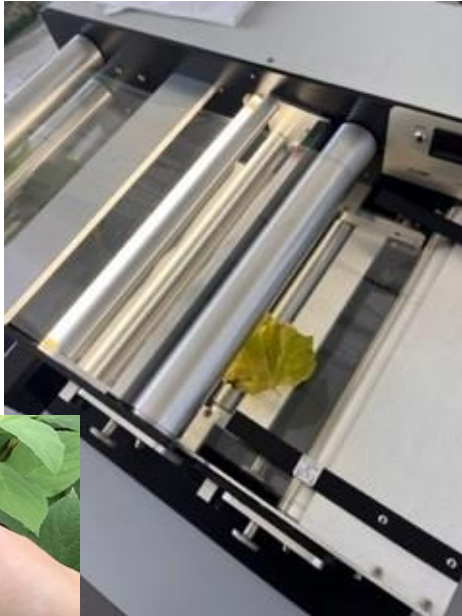


# Various VGS types – large scale





# Camera's, drones, sensors, WallBot, ...



# CORNET – Project consortium

A CORNET project consortium consists of three pillars in each participating country/region:

- SME organisation, association or cluster (depending on national structures),
- research performer and
- SME user committee with a minimum of 5 SMEs per country/region (the required number might differ depending on national rules) assuring that the research meets their innovation needs.



# CORNET – Collective Research Networking

→ Fosters pre-competitive research, enhancing innovation for small and medium-sized enterprises (SMEs) by funding collaborative projects globally

**Collaborative Funding:** Supported by international ministries and funding agencies, combining resources to increase SME competitiveness

**Project Support:** Helps initiate and fund projects that address research and development needs identified by industry groups

**Global Impact:** Promotes cross-border research collaboration, especially in sectors benefiting from collective technological advances

# Funding agencies EVERGREEN

- **Flanders – VLAIO (Flemish Agency for Innovation & Entrepreneurship)**

Role: Provides funding for innovation projects within Flanders, focusing on supporting SMEs and strengthening the region's competitiveness through applied research

Support: Encourages innovation in collaboration with academic and industry partners



- **Germany – DLR**

Role: Operates as a project management agency for the German government, overseeing funding for research initiatives across multiple sectors, including applied sciences

Support: Facilitates cross-border research to drive industrial innovation and sustainability

