



DNA INSECTSCAN



# DNA InsectScan

## Monitoring biodiversity on green facades and roofs

Mobilane introduces the DNA InsectScan for living walls in collaboration with SGS Search. A new unique and innovative method to measure the effectiveness of living walls for biodiversity. The InsectScan is based on collecting flowers and foliage from the green walls during Mobilane's maintenance. At our laboratory the DNA that the insects left behind on the plants is isolated and sequenced. This delivers hundreds of DNA sequences that are compared to species reference databases. The resulting insect biodiversity data is reported in a meaningful and comprehensive format. With the InsectScan our clients can now monitor and verify the enhancement in insect species richness. Plus, we can further optimize the impact on biodiversity of each green wall.

### BENEFITS

- Monitor biodiversity effectively and at any scale
- Ease of sampling
- Quantify success of biodiversity restoration actions in urban and natural environments
- Identify and manage natural pollinators
- Determine the Ecosystem Services of your property
- Monitor environment impact through indicator species
- To be used as part of ESG reporting

### THE SCAN INCLUDES

- Introduction, scope of work and description of methodology
- Sampling Plan & Protocol
- Overview insect species identification (Taxa List) with various tables, plots, statistics and other data
- Visual species overview
- Detailed sampling tables

biodiversity

living walls

green roofs

measurable

insects

### EXCLUSIVE COLLABORATION: MOBILANE X SGS SEARCH

SGS Search is an international engineering firm, consultancy firm, laboratory and training institute for (sustainable) built environment. With their environment as inspiration, they create a sustainable future. A mission shared by Mobilane. With the InsectScan our clients can now monitor and verify the enhancement in insect species richness. In this way we contribute even more to a green future for the next generations.

#### HOW DOES IT WORK?

Environmental DNA (E-DNA) is the genetic material released by an organism into the environment. The sources are numerous and include shed skin and hair, body secretions, faeces, seeds, pollen. By deploying molecular techniques, E-DNA can be captured, amplified and/or sequenced to identify the recent presence, relative abundance and/or distribution of a given species or whole communities.

#### WHY A DNA INSECTSCAN FOR LIVING WALLS?

We know that plants and soil in living walls contribute to biodiversity. But what is the real positive effect of green façades for insects? With the Mobilane DNA InsectScan for living walls, it is possible to express the positive effect of living walls on biodiversity in numbers.

A unique way to easily measure biodiversity in a scientific way. This data is transparent and can be used in annual reports and sustainability reports for internal users and stakeholders. The DNA InsectScan for living walls can contribute to sustainability certificates such as BREEAM certification.