

Innovative method for monitoring insect biodiversity on green walls and roofs.

**PARTNERSHIP** 







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## **ABOUT US**



- Since 1870, now 2650 offices and laboratories.
- Largest in independent inspection, certification and testing.
- In the Netherlands, SGS Search is the inspection agency for the sustainably built environment.





- Green expert since 1926
- 5 European offices and agents worldwide
- 250 employees and its own social workplace









Oase Lease – Bridge baskets, Amsterdam, The Netherlands





## NATURE-INCLUSIVE CONSTRUCTION: LIVING WALLS

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## BENEFITS

Instant privacy and greenery result

Easy and fast to install

Contributes to biodiversity

Contributes to a healthy environment

Improves air quality

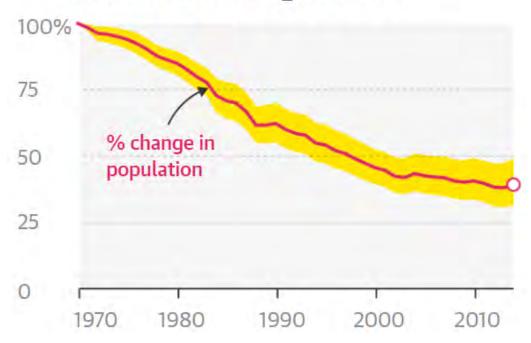
Reduces fine dust with 40 - 60%\*

Contributes to the greening of urban areas



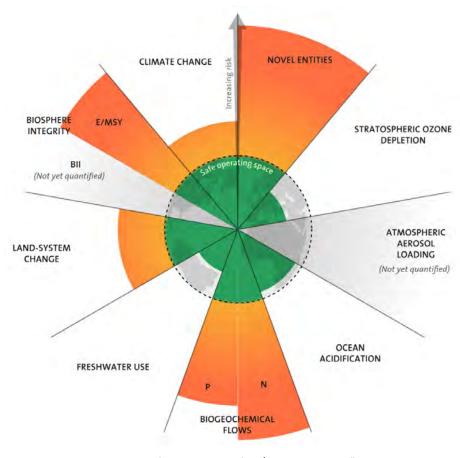
### HOW ARE WE DOING?

# Since 1970, 60% of the world's vertebrate animals have been wiped out



Source: Living Planet index, WWF/ZSL.

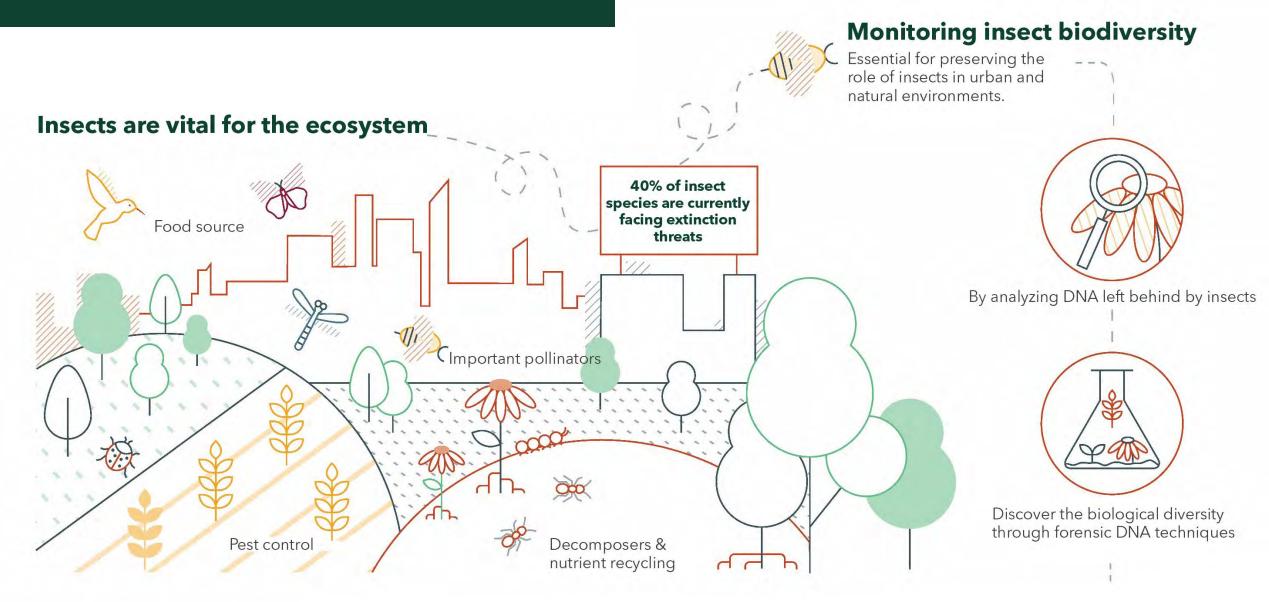
#### **The nine Planetary Boundaries**



BII: Biodiversity Intactness Index, E/MSY: Extinction per million species; P: Phosphorous; N: Nitrogen; Novel Entities: i.e. plastics and chemicals



## WHY THE FOCUS ON INSECTS?

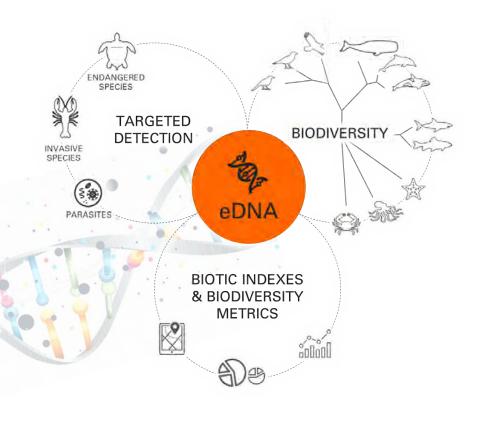




## WHAT IS 'ENVIRONMENTAL DNA'?

Genetic material left behind by an organism in the environment. Types of samples include:





What can i do with it?



## **HOW DOES IT WORK?**



GigaBytes of A, C, T & G's





## IN PICTURES: INSECT BIODIVERSITY ON FLOWERS

#### 15 flowers smapled

70 genera / 68 species





## CASE STUDY: GROENE DAKEN BUSHOKKEN IN UTRECHT

#### **BACKGROUND INFORMATION**



**Place** Utrecht, city centre

**Number of bus shelters** 

316

#### Green roofs as a solution for

- Air quality
- Circular products
- Inspire residents to create a green living environment.





## CASE STUDY: GREEN ROOFS BUS SHELTERS IN UTRECHT





21 Bees, wasps and ants



26 Moths or butterflies



32 Beak insects



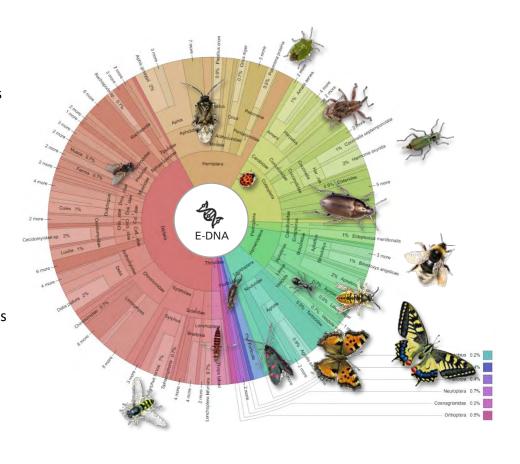
53 Beetles



135 Flies and mosquitoes



30 in other groups





## CASE STUDY: GREEN FACADES OFFICE BUILDING

#### **BACKGROUND INFORMATION**



#### Project

Plaats Start bouw en opleving

Bunnik, the Netherlands 2020, 2021

#### Green façades as a solution for

- Nature-inclusive building
- Encourage local biodiversity
- Use sustainable and circular products



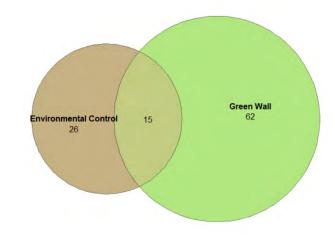




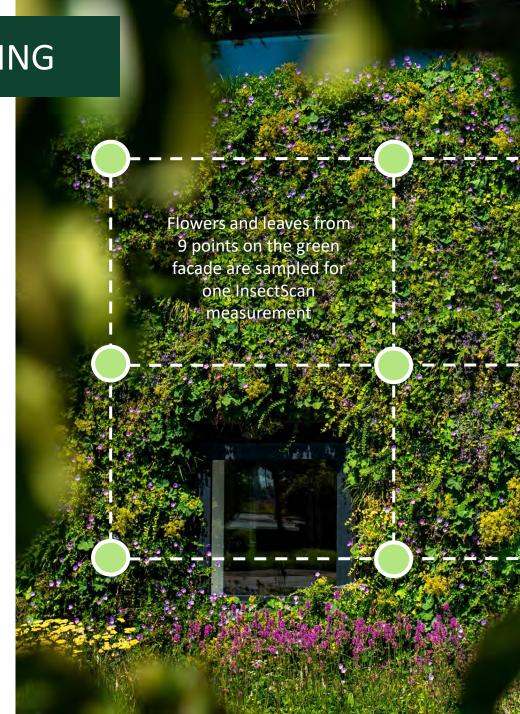
## CASE STUDY: GREEN FACADES OFFICE BUILDING



## Number of insect species per sample type:







## SUMMARY BIODIVERSITY GREEN FACADES

- Regaining lost habitat with green facades
- Monitor biodiversity on green facades and roofs effectively and at any scale
- Expressing biodiversity in data
- Simple, quick and reliable research method
- Biodiversity for business ESG report (2024)









Want to know more?

Mobilane

Stand Number 31

Partnership







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