

**ASECAP DAYS**



**MILANO 2024**

**A35 Brebemi**



ORGANIZED BY



HOSTED BY



**ASECAP DAYS**



**MILANO 2024**

# RESTORE AND PROTECT BIODIVERSITY ALONG THE HIGHWAY

**A project of A35 Brebemi highway and 3Bee**

Ilaria Napoli

Senior Sustainability Manager

A35 Brebemi - Aleatica

ORGANIZED BY



HOSTED BY



# OVERVIEW

## 1. BACKGROUND BIODIVERSITY

- What is Biodiversity ?
- Why does it matter to us ?
- Regulatory Framework: duty and opportunities

## 2. A PROJECT OF A35 BREBEMI AND 3BEE PARTNER

- The contest and the idea
- The Project: A35 Brebemi's Biodiversity Oasi

## 3. NEXT STEP: OUR RESTORATION STRATEGY

- Outcome and Strategy
- Define a scalable project

# WHAT IS BIODIVERSITY ?



“**Biodiversity** means the **variability among living organisms** from all sources including terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part; this includes diversity within species, between species and of ecosystems”

United Nation - Convention on Biological Diversity

# WHAT IS BIODIVERSITY ?

diversity of ecosystem



diversity between species



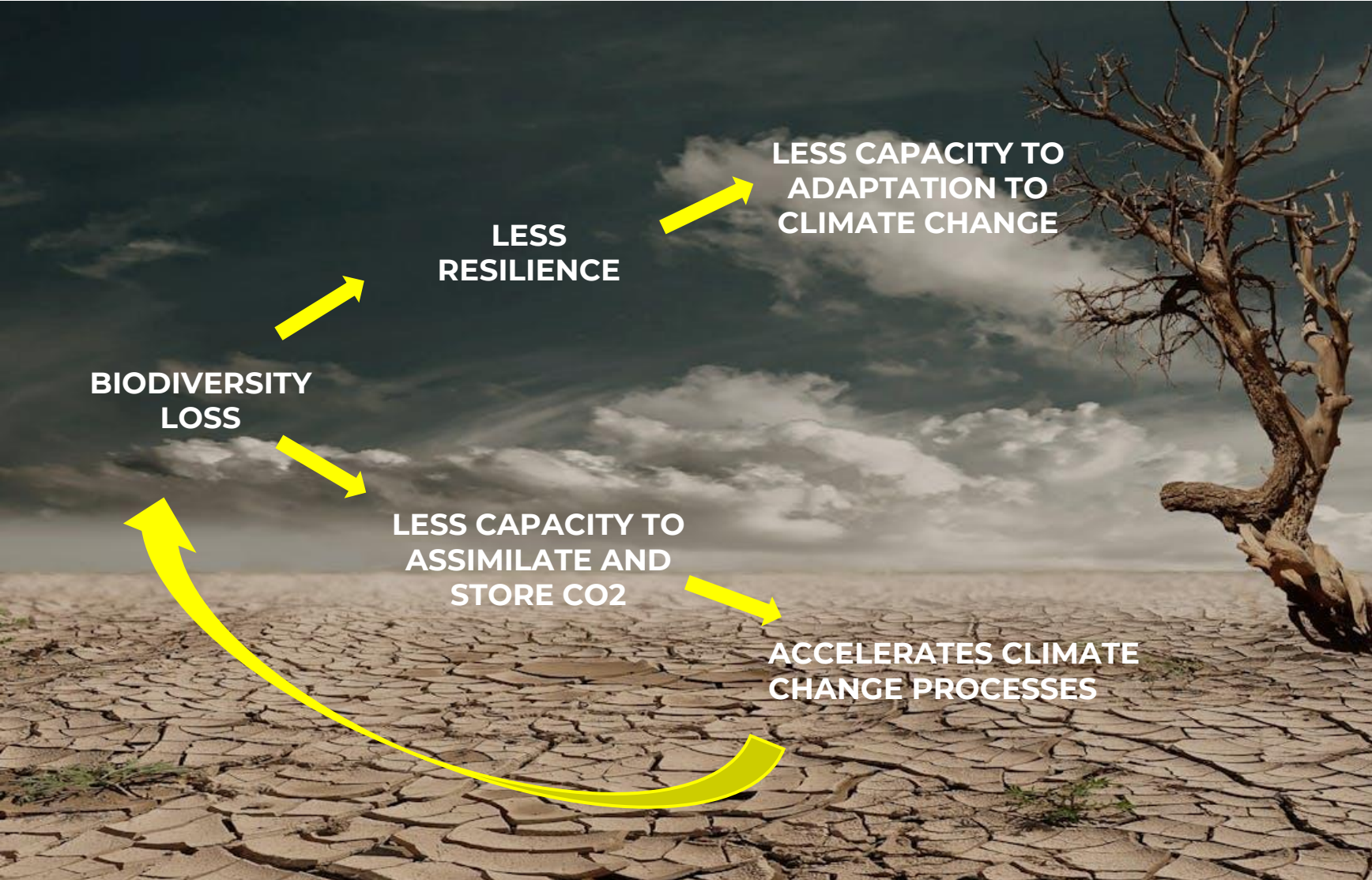
diversity within species



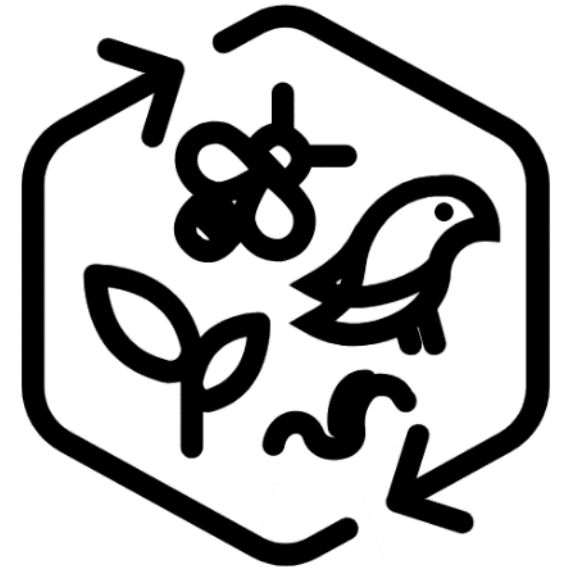
“**Biodiversity** means the variability among living organisms from all sources including, terrestrial, marine and other aquatic ecosystems and the ecological complexes of which they are part; **this includes diversity within species, between species and of ecosystems**”

United Nation - Convention on Biological Diversity

# WHY DOES IT MATTER TO US ?



**Climate change** is strongly connected to the Loss of biodiversity.



# WHY DOES IT MATTER TO US ?

**Human health** is strongly connected to the Loss of Biodiversity.

More than 70 % of plants, including those we eat develop thanks to pollinating insects

Biodiversity allows to restore of ecosystem avoiding desertification phenomenon and this is connected with spillover phenomenon

«When we destroy biodiversity, we destroy our life support system, cut off the branch that we sit on»

**Nature Needs You  
And We Need Nature Too**

It cleans the water we drink.

Pollinates our crops.

Purifies the air we breathe.

Regulates the climate.

Keeps our soils fertile.

Provides us with  
vital medicines.

And offers many of the basic  
building blocks for industry.

# REGULATORY FRAMEWORK: DUTY AND OPPORTUNITIES

NEED



DUTY



CSRD, EU TAXONOMY AND  
NEW REPORTING STANDARD



European  
Commission

NATURE RESTORATION LAW

OPPORTUNITY





# THE CONTEST, THE IDEA

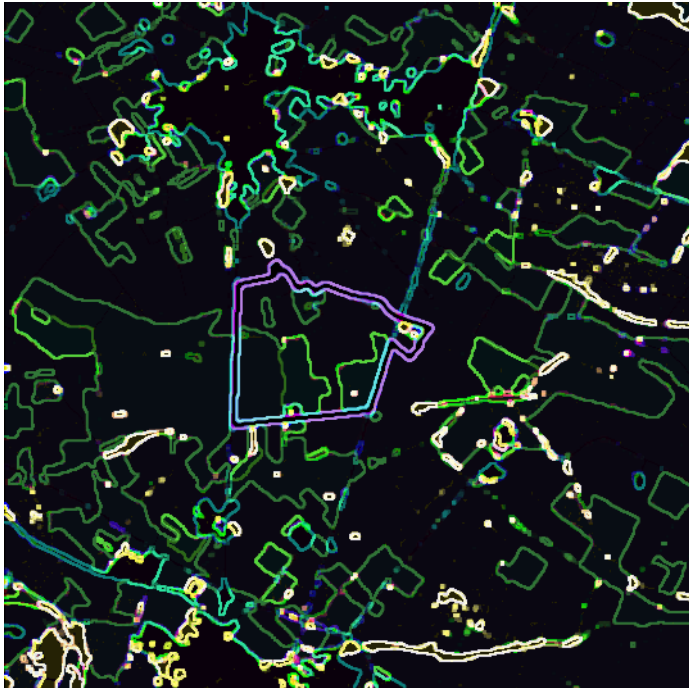
Along the linear infrastructure we can find many unused areas that can be seen as a potential areas for biodiversity restoration.



**Biodiversity conservation must not be confined to protected areas, but must also be in harmony with human activities.**



## FLORA



Technologies based on satellite maps and AI, developed by 3Bee with ESA

## SPECTRUM

acoustic IoT sensor equipped with computational models



## HIVE TECH

IoT systems to monitoring vital parameters of our bee community





# NEXT STEP: OUR RESTORATION STRATEGY

## Define a scalable project

- Is not a one-off Oasi
- We want to define a pilot project that can be replicated
- Quantity and scientific approach



Next step – 2024:

1 additional hectare regenerated with nectariferous plants

Bird Monitoring

0.5 hectare of nectariferous meadow

Additional pollinator hives/boxes

Monitoring beehives with HT technology

## PROPOSTA DI PROGETTO TREVIGLIO



- HIVE-TECH**  
Monitoraggio delle api presenti nell'apiario, usate come bioindicatore dell'area.
- BOSCO**  
Piantumazione di specie nettariifere (bosco e prato nettariifero)
- PERCORSO IMPOLLINATORI**  
Percorso con cassette per impollinatori selvatici, che garantisce un habitat a osmie, farfalle e coccinelle.
- FLORA**  
Monitoraggio satellitare per monitoraggio della vegetazione nel tempo.
- SPECTRUM**  
Monitoraggio fauna nettariifera nell'area tramite bioacustic
- BIRD**  
Monitoraggio e censimento dell'avifauna presente nell'area.

**ASECAP DAYS**



**MILANO 2024**

# THANK YOU

**GRAZIE**

---

Ilaria Napoli  
Ilaria.napoli@brebemi.it  
3669928415

**A35 Brebemi**



**3Bee**  
for Business



milanoserravalle  
milanotangenziali



HOSTED BY

ORGANIZED BY