

# **BIODIVERSITY PILAR**

## **SEPTEMBER 2020 – APRIL 2021**



**Susan Christensen and Graziella Digangi**

## INTRODUCTION

***How can we within the frame of Green School bring nature into our school environment and better connect with nature ?***

**There are many ways to bring more nature into our school environment and this year we focus on :**

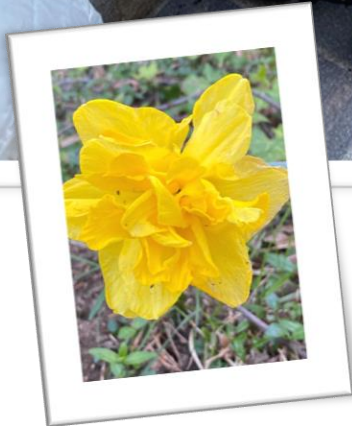
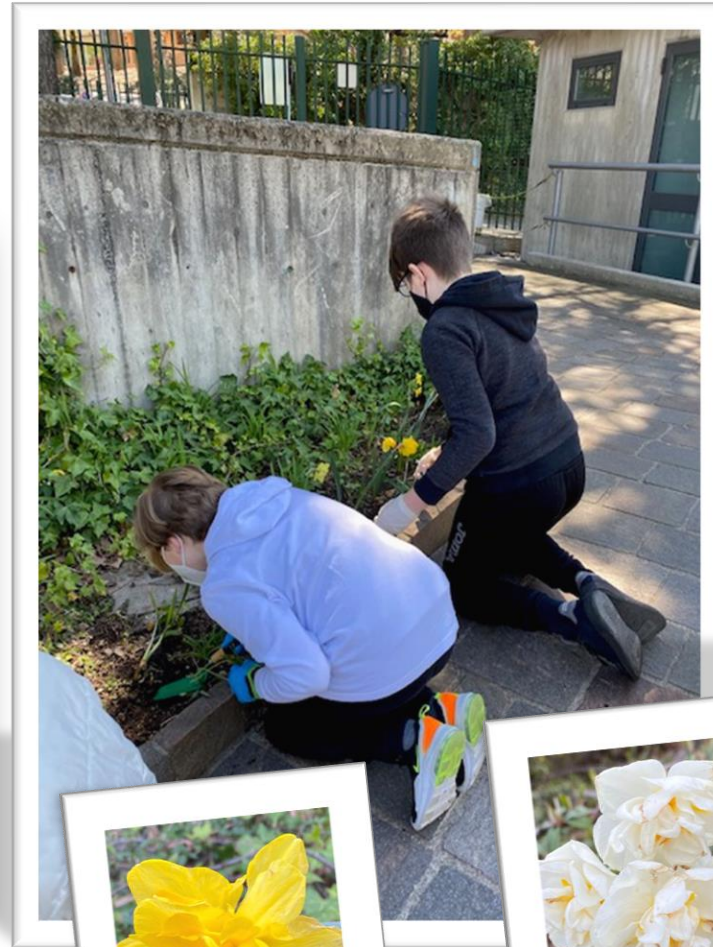
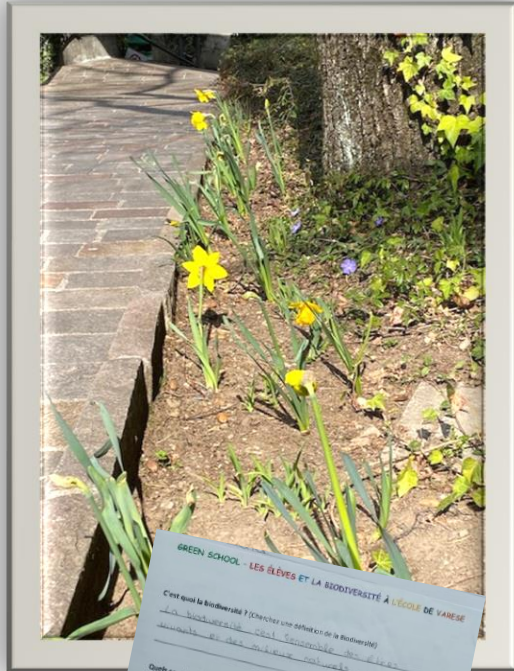
- ❖ **planting flowers and trees,**
- ❖ **to learn more about the biodiversity at our school**
- ❖ **and to better understand what sustainable development really means.**





# IMPROVING BIODIVERSITY – AUTUM 2021

Planting flowers  
different varieties  
teamwork



GREEN SCHOOL - LES ÉLÈVES ET LA BIODIVERSITÉ À L'ÉCOLE DE VARESE

C'est quoi la biodiversité ? (Chercher un dictionnaire de la biodiversité)  
La biodiversité est l'ensemble des divers  
éléments et des espèces naturelles.

Quels sont les bulbes d'automne ?

1. Les tulipes
2. Les narcisses et jonquilles
3. Les crocus
4. Les anémones
5. Les Alliums
6. Les Anagallis
7. Les Iris
8. Les Scilla
9. Les perce-neige fleurs

FICHE TECHNIQUE

- Nom : Tulipe
- Plantation : septembre à octobre
- Hauteur : de 10cm à 1m
- Exposition : plein soleil à ombre à l'abri du vent
- Climat : tempéré





**MUSCARI**

**IMPROVING  
BIODIVERSITY**

**AUTUM 2020**



# IMPROVING BIODIVERSITY - SPRING 2021

## PLANT A TREE - CORNIOLO



**CLASS S3MORFR**



# IMPROVING BIODIVERSITY

*April 2021*  
Summer plants



**CLASS:  
S3MORFRA**



**PRATO GIAPPONESE**



**NASTURZIO**



**Attract insects**

# OBSERVING AND MEASURING BIODIVERSITY



## PlantNet

### Objectives

- ❖ To make the students observing their environment and learn about plants.
- ❖ Measuring biodiversity at our school

### Description

- ❖ Is a free application that allows identification of plants simply by photographing them with your smartphone.
- ❖ It's easy to use because with a simple picture you can identify any plant in your surroundings. The app is connected to a large database which give you all the information you need.



# OBSERVING AND MEASURING BIODIVERSITY

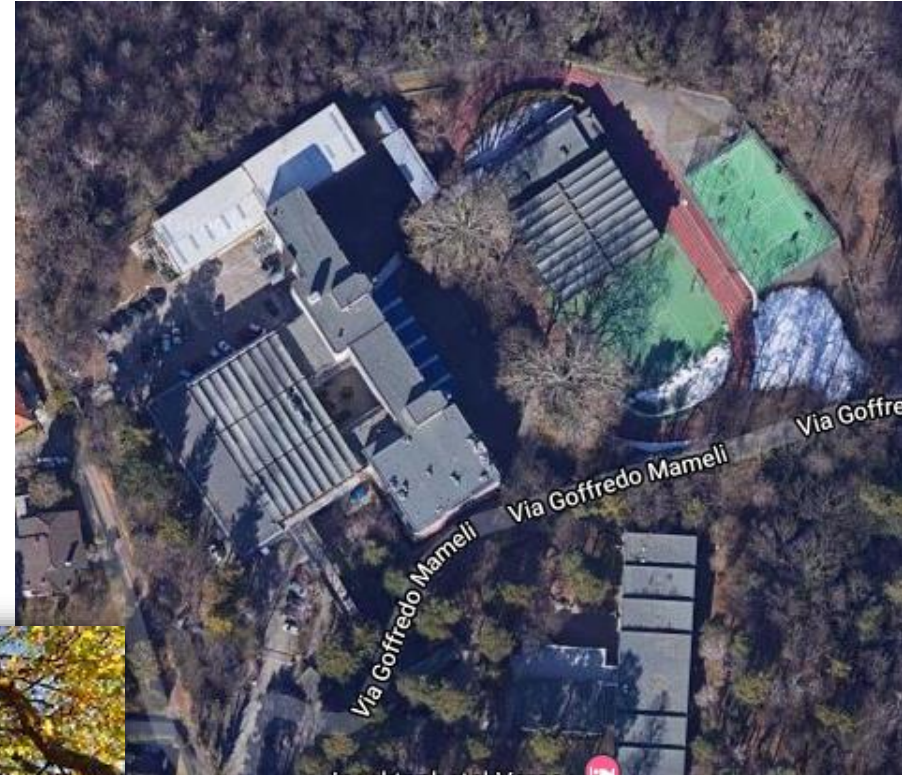


## PlantNet

### Results

- ✓ Pilot project focused on trees
- ✓ Activity started : October 2020, but blocked by lockdown/winter (you need the leaves to identify)
- ✓ Identified species: Betula, Castagna, Taxus baccata

**Actors** : Secondary S3





# LEARNING ABOUT SUSTAINABLE DEVELOPMENT

CLASS S6GEOEN

## GROUP WORK & PRESENTATIONS on United Nations Sustainable Development Goals



### Global Goals

GOOD HEALTH AND WELL-BEING

- The new goal for worldwide Good Health promotes healthy lifestyles for everyone
- Good health is essential to sustainable development and 2030 Agenda reflects the complexity and interconnectedness of the two



### What is clean energy?


NCSEA defines clean energy as energy derived from renewable, zero-emissions sources ("renewables"), as well as energy saved through energy efficiency ("EE") measures.

It is energy often produced by biomass, geothermal, hydropower, solar, and wind.



### What is happening nowadays:

- 1 in 4 health care facilities lacks basic water services
- 3 in 10 people lack access to safely managed drinking water services and 6 in 10 people lack access to safely managed sanitation facilities.
- Women and girls are responsible for water collection in 80 per cent of households without access to water on premises.
- Between 1990 and 2015, the proportion of the global population using an improved drinking water source has increased from 76 per cent to 90 per cent
- More than 80 per cent of wastewater resulting from human activities is discharged into rivers or sea without any pollution removal
- Each day, nearly 1,000 children die due to preventable water and sanitation-related diarrheal diseases



DESPIITE PROGRESS BILLIONS STILL LACK SAFETY MANAGED WATER AND SANITATION S

TWO IN FIVE HEALTH CARE FACILITIES WORLDWIDE HAVE NO SOAP OR WATER OR ALCOHOL-BASED HAND RUB (SDG 6)

2.2 BILLION PEOPLE LACK SAFETY MANAGED DRINKING WATER (SDG 6)

4.2 BILLION LACK SAFETY SANITATION (SDG 6)



3 BILLION PEOPLE WORLDWIDE LACK BASIC HANDWASHING FACILITIES AT HOME

THE MOST EFFECTIVE METHOD FOR COVID-19 PREVENTION

## SUMMARY

**Activity 1 “Plantation project”**: to improve biodiversity

- “autumn bulbs” : research and plantation 60 bulbs
- Mai: selected seeds for insects “Prato giapponese”
- Tree “corniolo” :

**Actors: Classes: S1MOR, S3MOR**

**Activity 2 – Pilot project. “Survey of biodiversity”**:(Sep’/October)

Testing of app: “

**Actors: Class: S3MOR**

**Activity 3 – Sustainable development and United Nations SD GOALS**

**Actors: Class: S6GEO**

