



# **PULCHRA**

## **project**

**2020-21**

Liceo scientifico N. Copernico  
classe 4Alsa, 3Dlsa  
presentation by:  
Davide and Emma

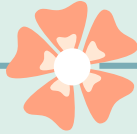


# Our experience



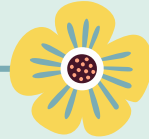
**september  
2020**

project  
presentation  
and lectures  
with experts



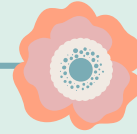
**february  
2021**

brainstorming,  
presentation  
to the  
community



**summer  
2021**

on field  
surveys in  
many regions  
municipalities



**autumn  
2021**

gather up  
sheets & data  
elaboration



# Our project

## Bug hotel

are structures created to provide shelter to useful insects, where these can nest.

The materials are preferably recycled (wooden boards, cane, bamboo, wood or dry mud and perforated bricks).

Bug hotels should be placed in the cities, where it is difficult to find a place to nest.



## Flowerbed

The pollinators need to feed and for this purpose we have identified some plants, which are great for them, as they are useful for us

rosemary



chive



sage



# How to build a bug hotel?

## Casing

Tin or glass jar, section of a Pringles tube, bottle etc

1



## Straws

We fill the container with straws with different (paper/ plastic/ vegetal's stems)

2



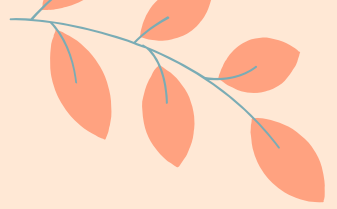
## Fillers

To fill a part of the space you can also use materials such as raffia or bark

3



# Example of a survey sheet



**Name\*:** school garden's Bug-hotel

**GPS coordinates & address:** Via Planis 25

**Placement description:** Hang on a tree at ... meters from nearest building

**Exposition & height:** 1,5m, north-east exposure

**Water in the proximity:** yes(/no)

**Bug hotel's description (materials):** CAN, STRAW & RAFFIA

**Dimensions/number of hollows:** 7x 1cm, 19x 0.75cm, 13x 0.5cm, 13x ~0.25 cm

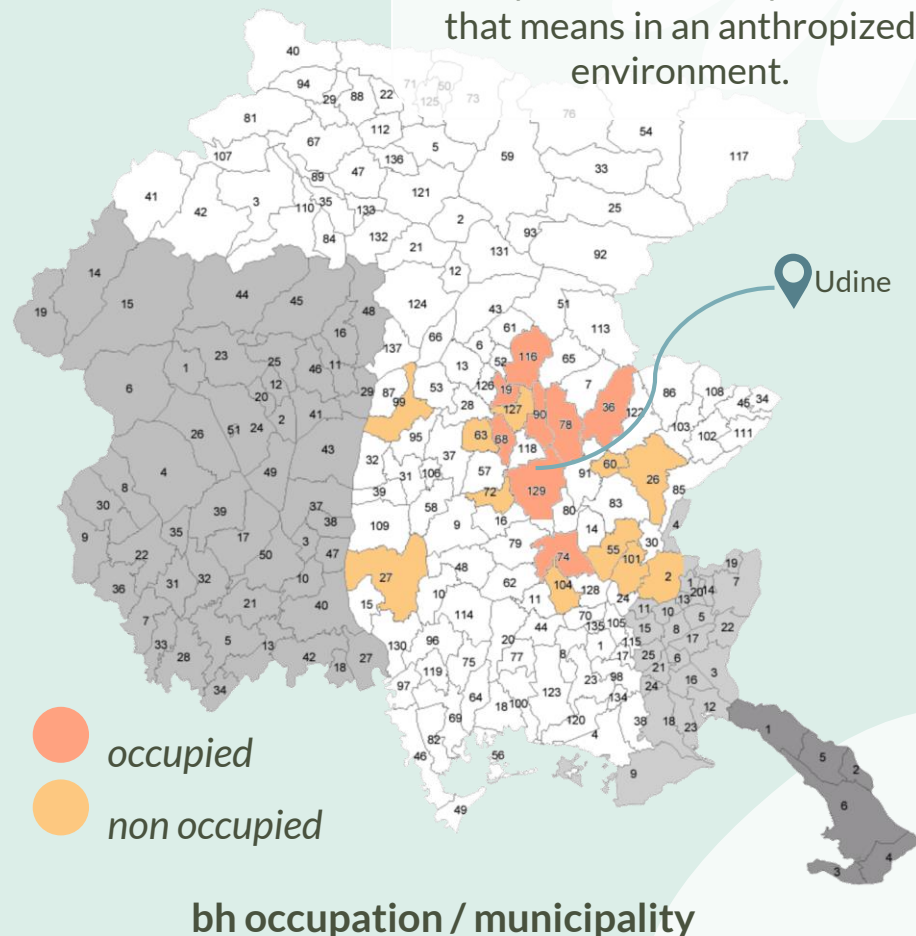
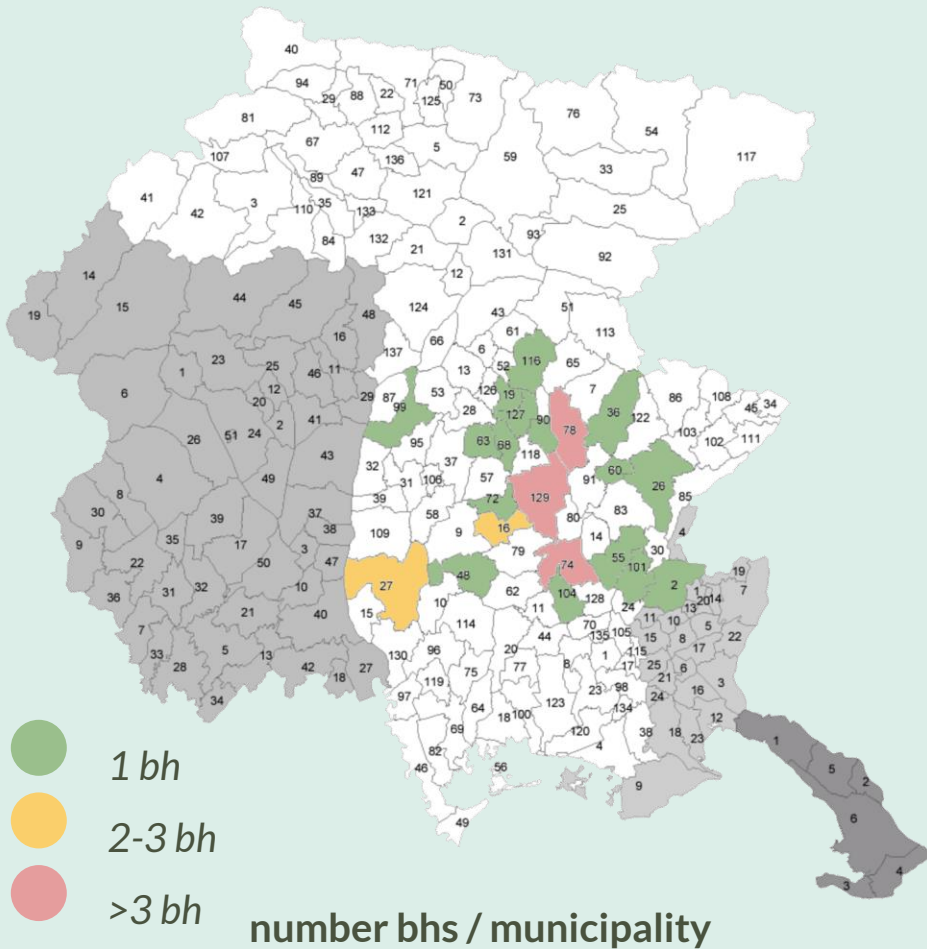
**Hollow depth:** 0.1 m

Date	Weather	Number of grout hollows	Dimension of grout hollows	Observed insects in 5 minutes*
dd/mm/yy	☀☐	3	2x0.3, 1x0.1	8
dd/mm/yy	☐?	4	2x0.3, 1x0.1, 1x0.5	3



# Territorial distribution

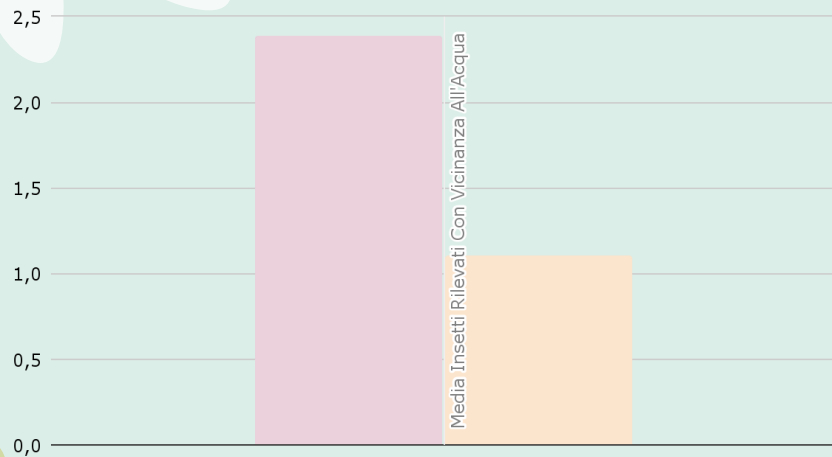
examined municipalities are mainly around the city of Udine, that means in an anthropized environment.



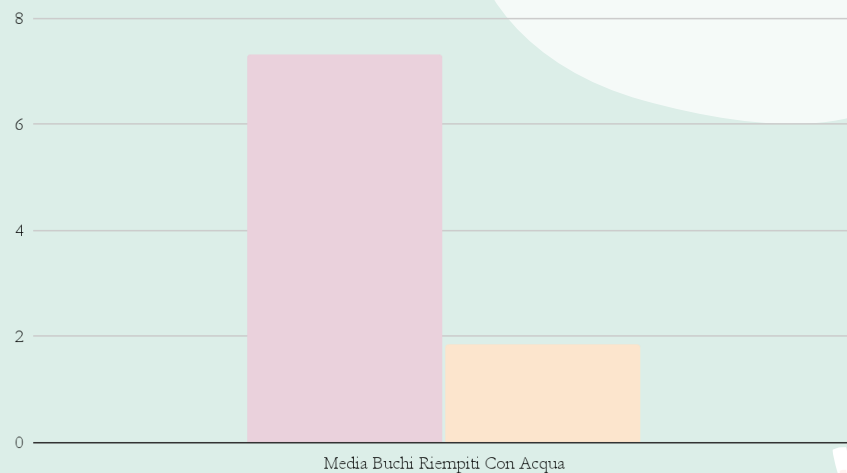



# Importance of water for pollinators


Media Insetti Rilevati Con Vicinanza All'Acqua   Media Insetti Rilevati Senza Vicinanza All'Acqua



Media Buchi Vicini A Fonti d'Acqua Riempiti   Media Buchi Lontani Da Fonti d'Acqua Riempiti

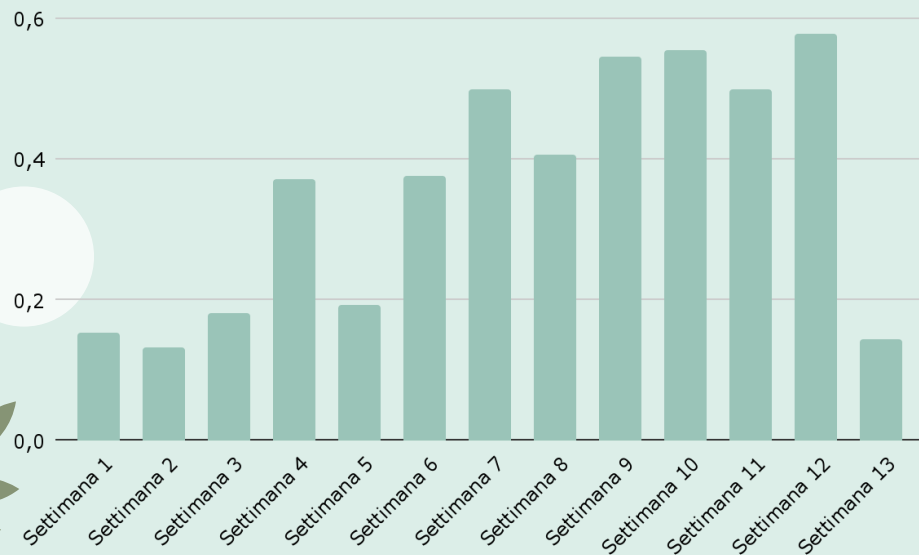


 *in proximity of water*

 *without any water in proximity*



# Influence of the period



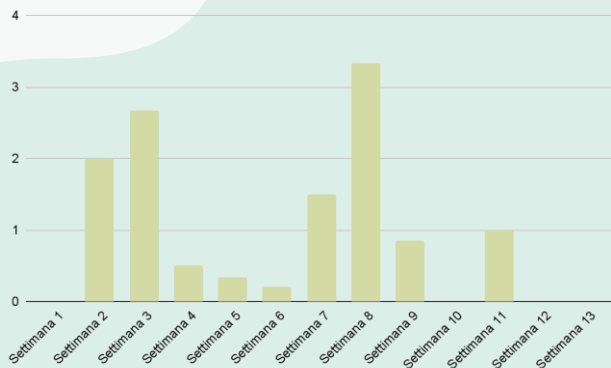
*The period considered goes from 15 June to 15 September: we observed a bigger occupation from mid-July to the first week of September*



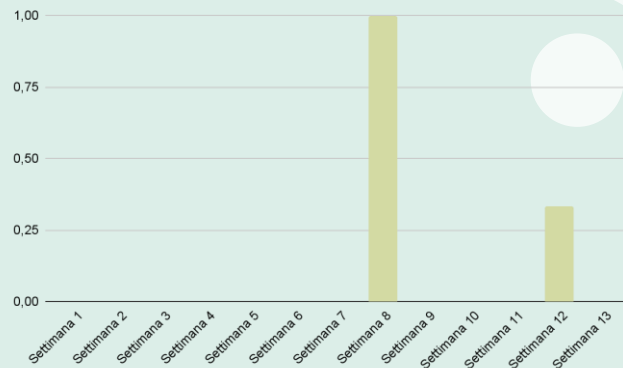


# Influence of atmospheric conditions

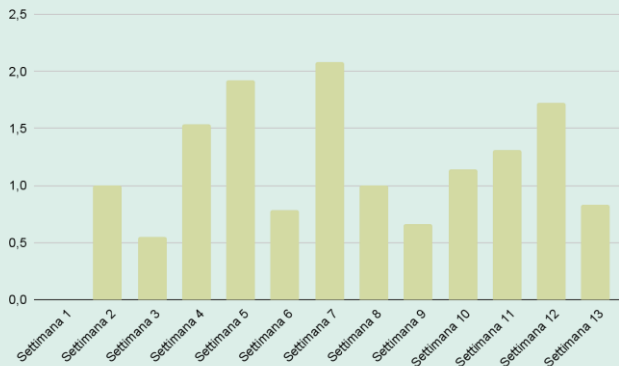
cloudy



rainy



sunny



*The three graphs show that in sunny days, there is a increased activity of the pollinators*

# Findings

After having verified the possibility to build the BUG HOTEL with easily available material the data we managed to collect have highlighted that:

- the ideal positioning is at about 1.5 meters, as suggested by experts
- it is essential to have water available in the proximity of Bug Hotels
- the optimal period of occupation is July-August
- the best time for observation is when the weather is sunny

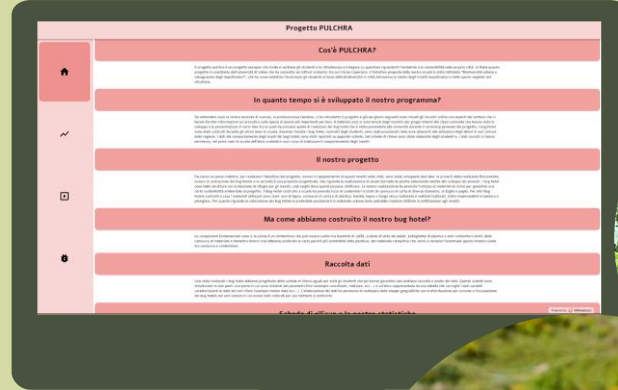


# Spreading and promotion

## First step

Publish on the school's web site a link to our project's site, which contains informations and materials

1



## Second step

Prepare totems and bug hotels for the school's park

2



# Spreading and promotion



3

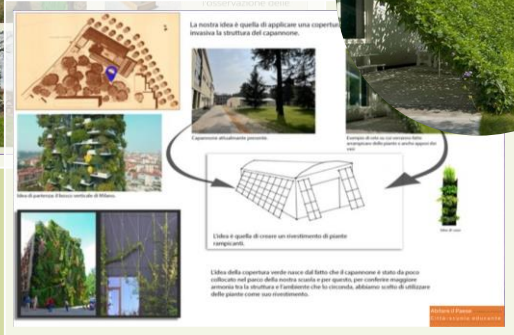
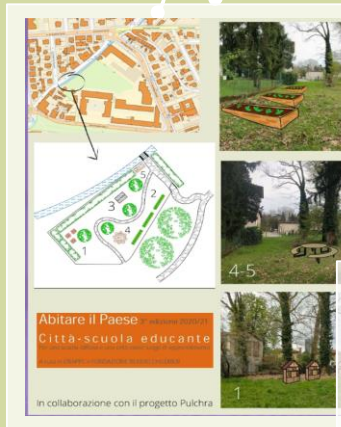
## Third step

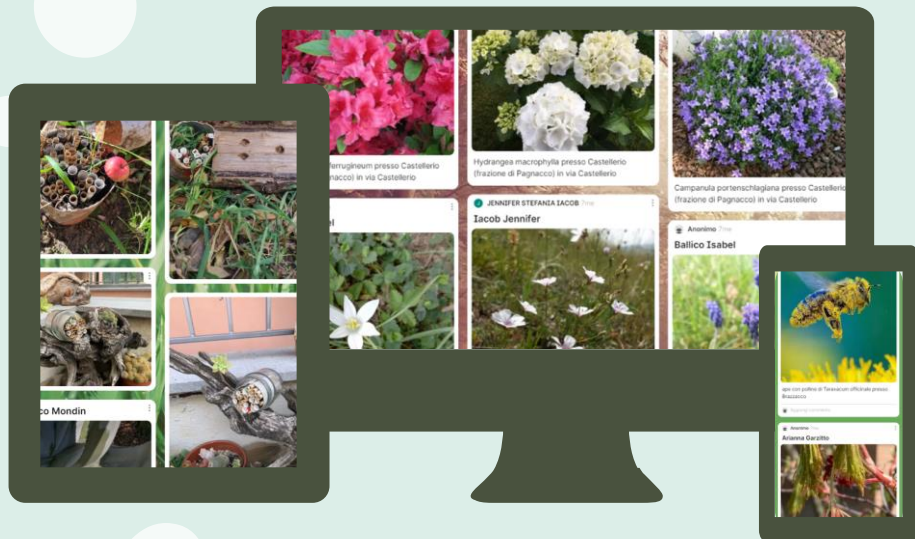
Transformation of a marquee in school's garden to in a sort of greenhouse

4

## Fourth step

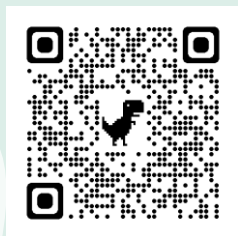
promotion of the project through meetings in schools (presentation + kit)





# Our padlets

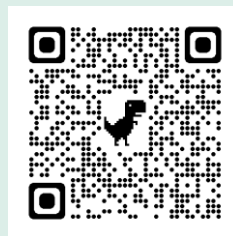
*We've collected many pictures on Padlet:*



entomological  
padlet



botanical padlet



BugHotel padlet



# Thank you!

Do you have any questions?

Contact us:

email: [pulchra.cop@gmail.com](mailto:pulchra.cop@gmail.com)

web: [pulchra.000webhostapp.com](http://pulchra.000webhostapp.com)

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computer & tablet

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