# Bee hotel and beyond: Citizens on the frontline of bee research - a journey from fear to fascination

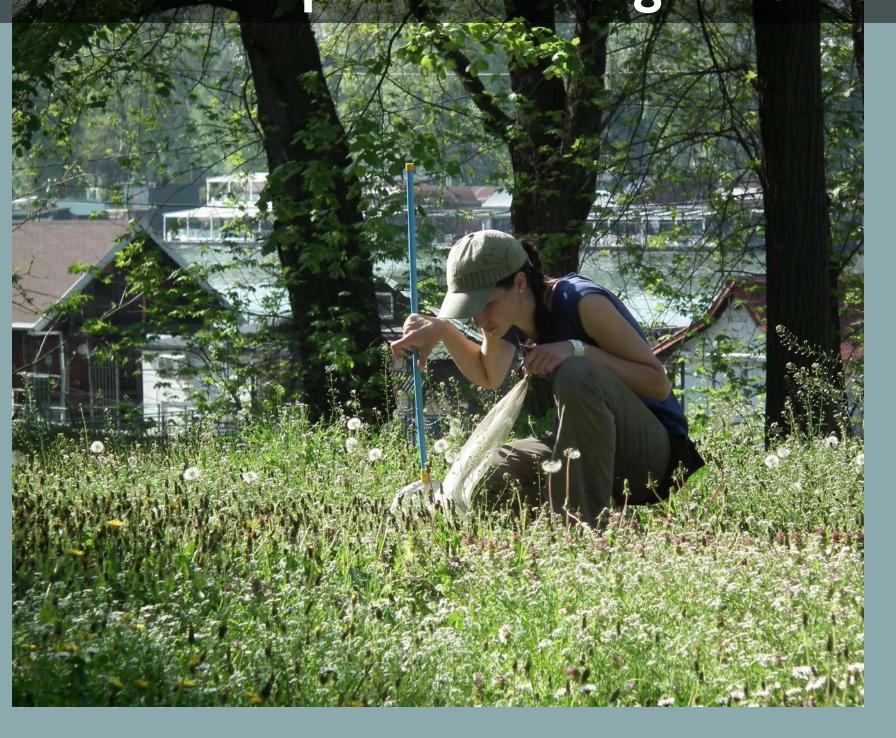
Dr Jovana Bila Dubaić
University of Belgrade, Faculty of Biology

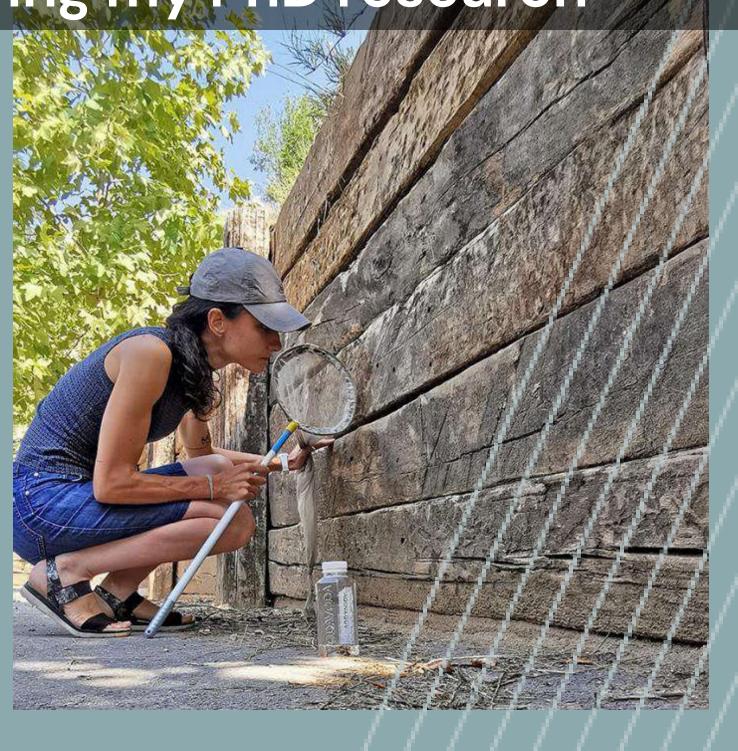


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My journey into citizen science began in the urban parks of Belgrade during my PhD research







It all begins with curiosity.

Thirst for knowledge about nature - a curiosity that is rarely satisfied in our everyday lives.

## Social media as a valuable tool

Space for distraction?

Space for spreading the conspiracy theories?

Engage a wider audience and spark curiosity about nature and science.





### Questions from curious citizens



### Stories and educational videos on Instagram

How to adress and **connect** to people you are talking to

How to see their perspective

People will remember how they feel while doing something: show them how important their help is and recognize their contribution

Who is behind the information/message? Only then the audience will decide to trust us and join our cause

### WANTED.

MEGACHILE SCULPTURALIS



Poreklo: Azija

Naziv:

Megachile sculpturalts

Boja: crna sa bakarno-

narandžastim dlakama

Veličina: 1.5-2.6 cm

Period aktivnosti:

jun-avgust

Ukoliko primetite ovu pčelu slikajte je ili snimite i pošaljite nam na e-mail:
azijska.pcela@bio.bg.ac.rs



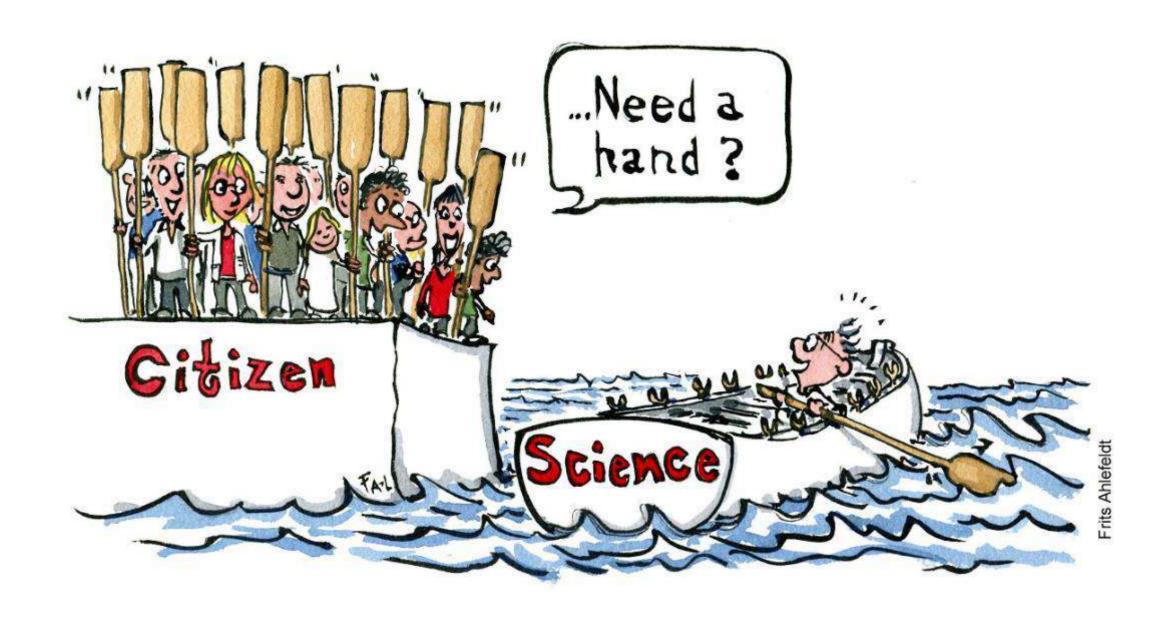






#### Citizen science

Connecting with people and how it comes back in unexpected ways...



#### Solitary bees nesting in bee hotels







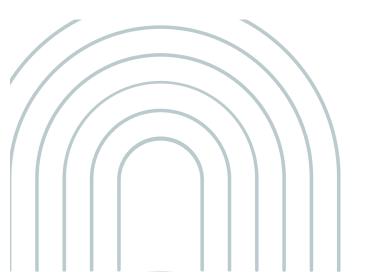




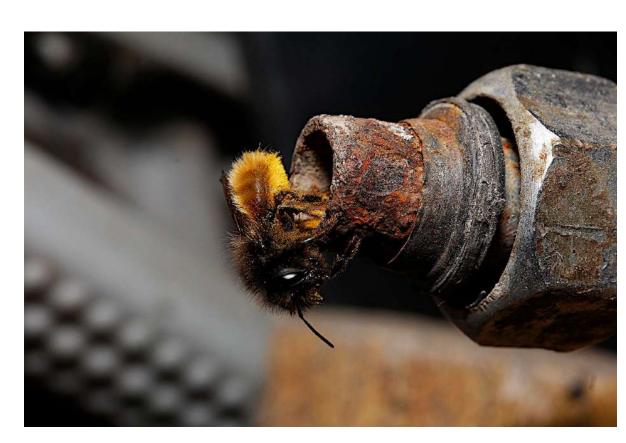
#### Solitary bees

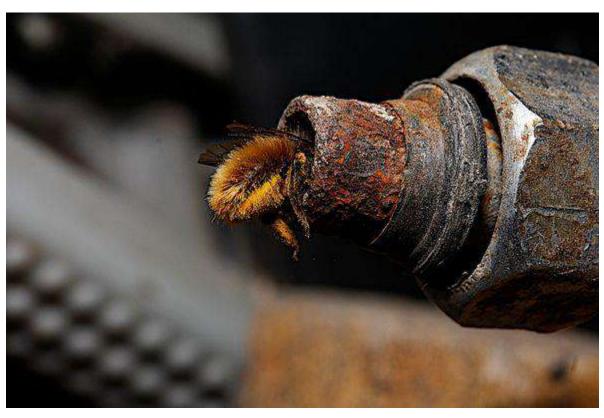






# Which bee is this? - exploring who checks into my bee hotel



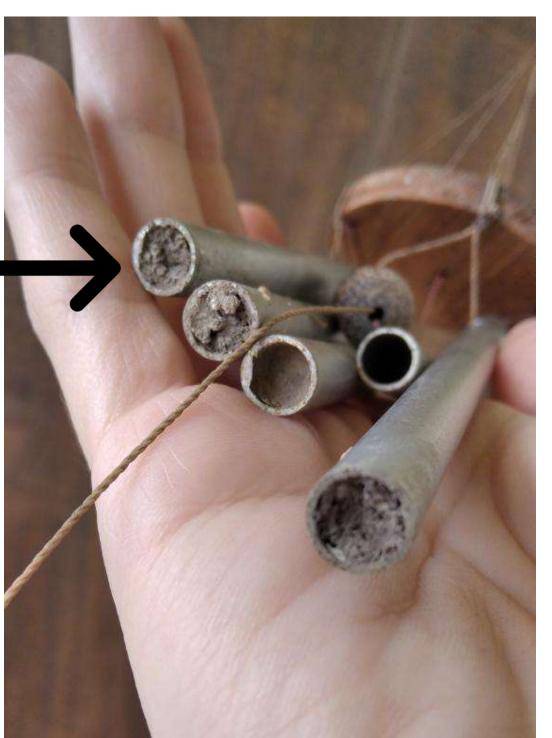






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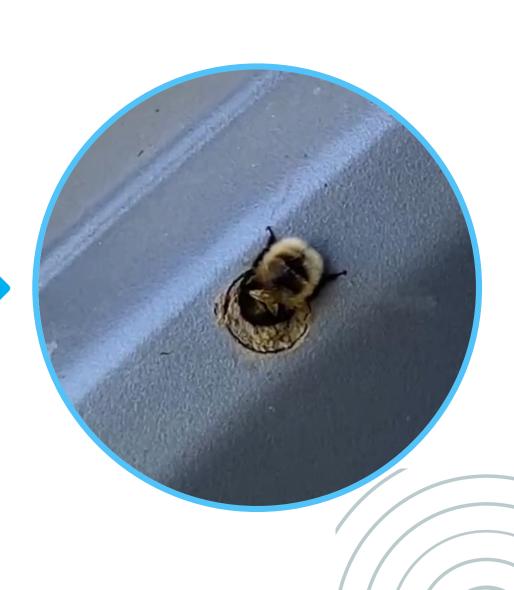


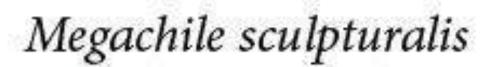




# Which bee is this? - exploring who checks into my bee hotel

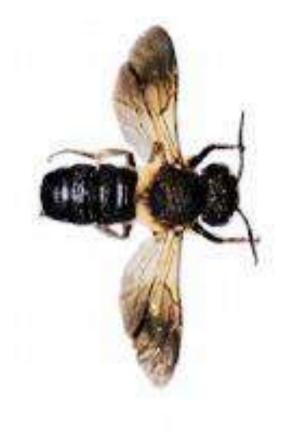






Apis mellifera



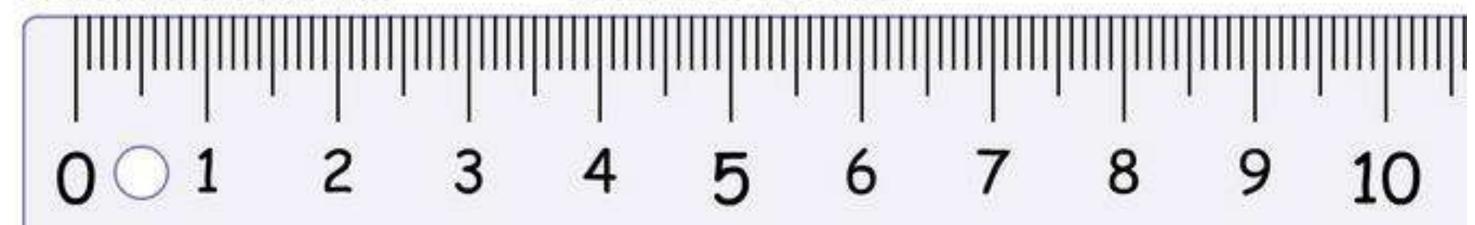


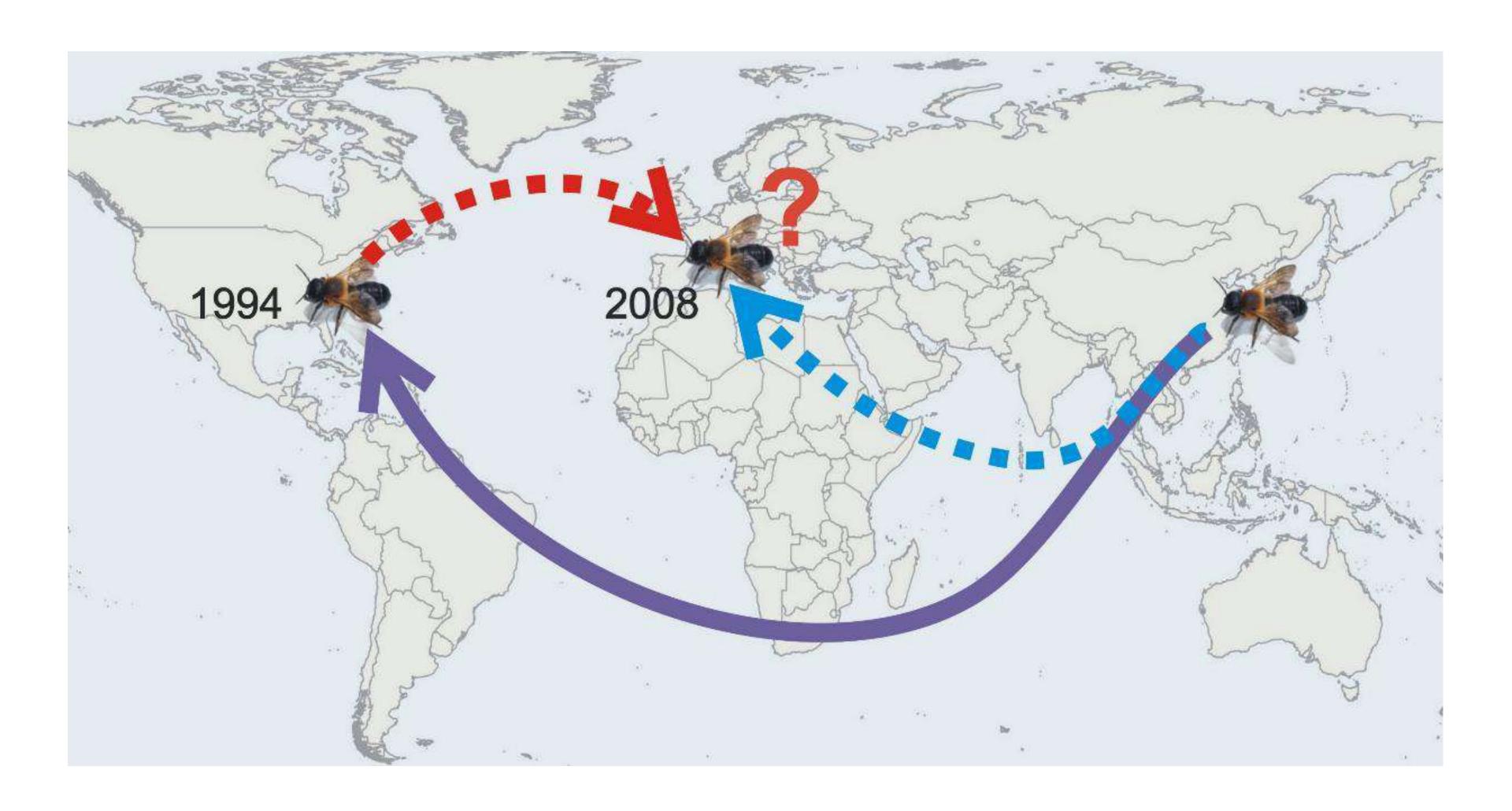


female 22-26 mm ma

male 14-19 mm

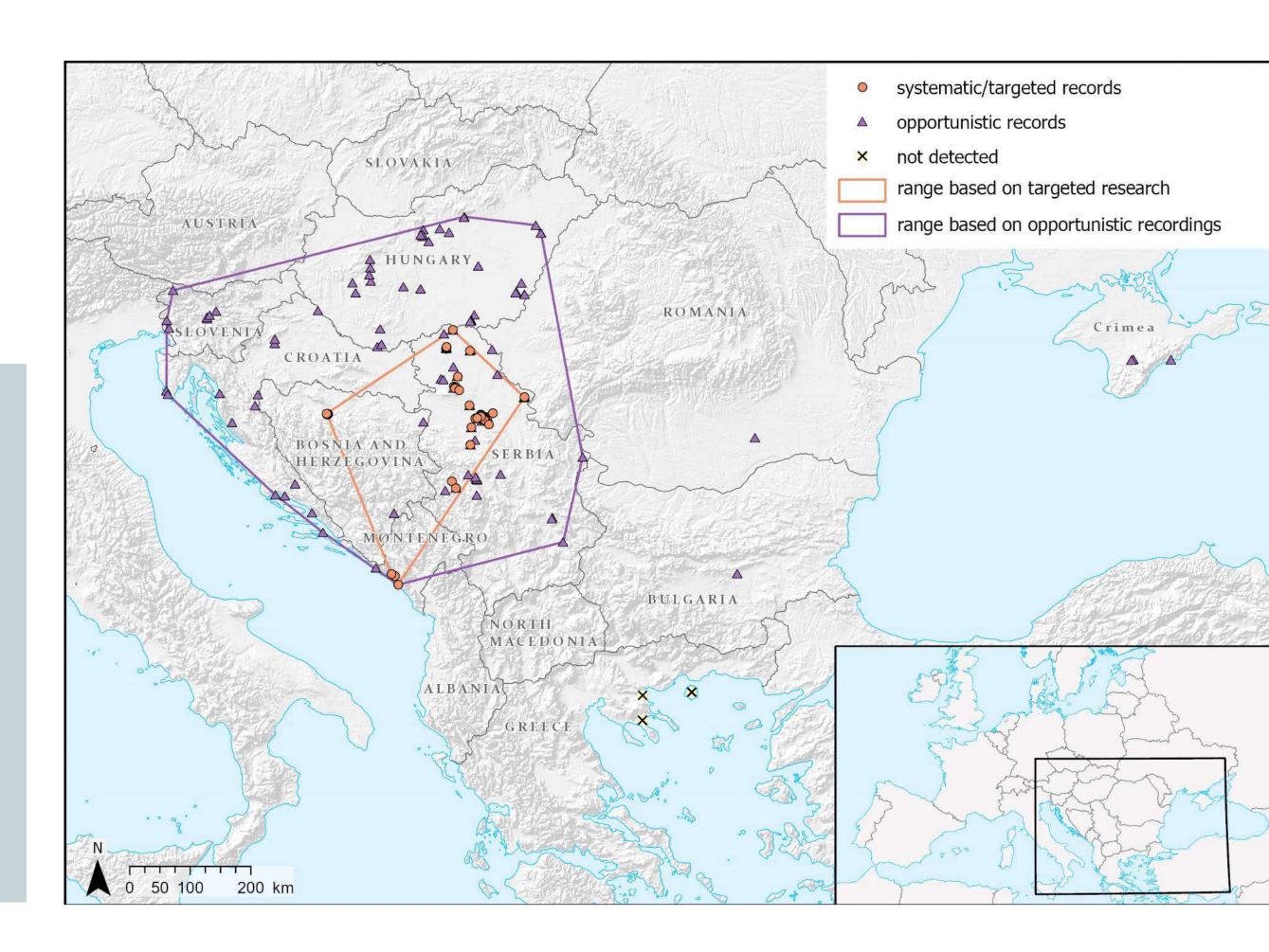
honey bee worker ~15 mm





# Occurrence of the sculptured resin bee in Serbia and region

through citizen
science: area is 5
times larger than
the area obtained
through targeted,
organized scientific
research!



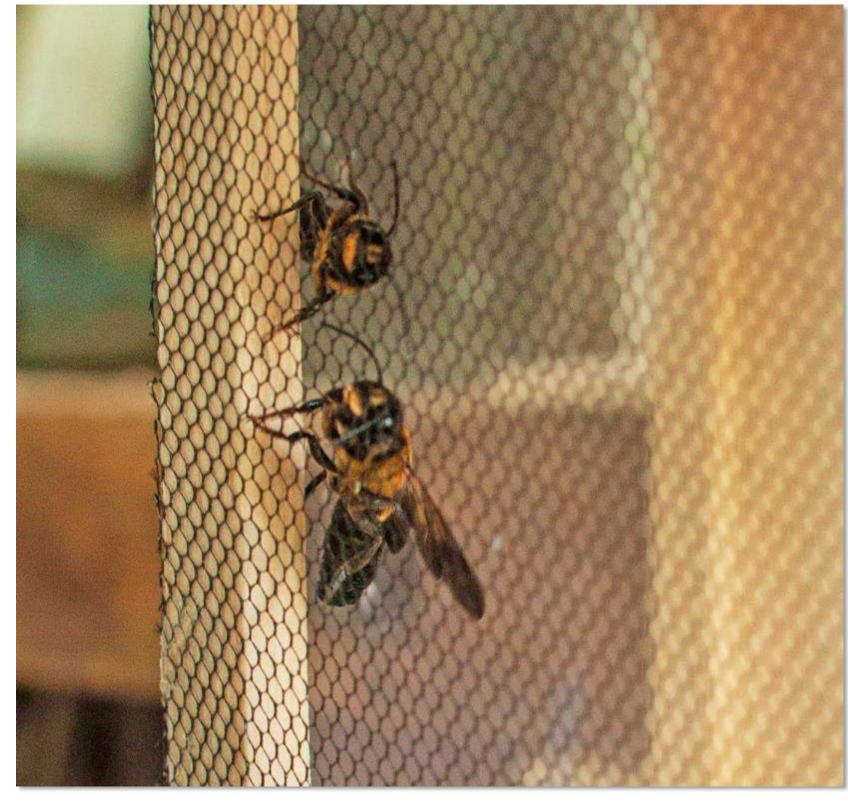
#### NEW POSSIBILITIES THANKS TO CITIZEN SCIENCE

- Plants visited by this bee
- Behavior at nests
- Materials they collect for nest



Boxes placed over the nest entrances capturing individuals emerging from the nest.





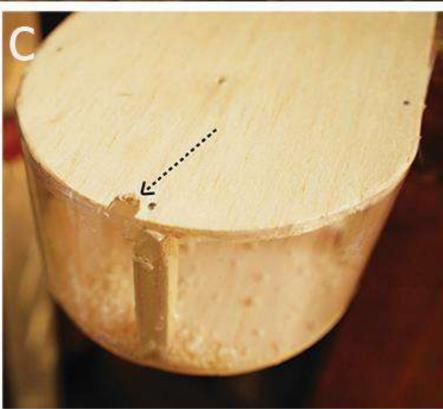
Serbia, Belgrade, 2021–2023.

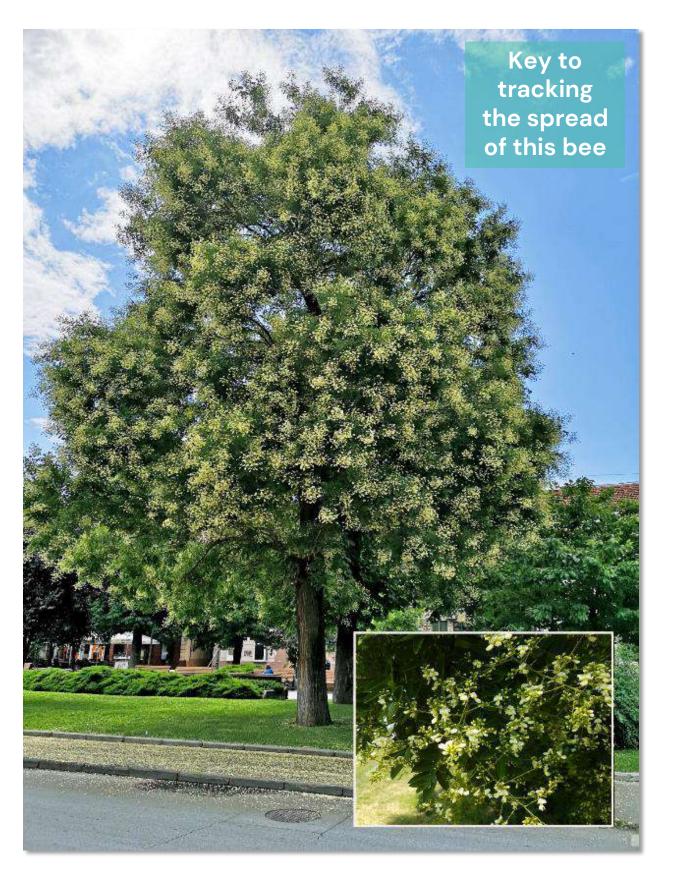
Serbia, Belgrade, 2021-2023.

Reports of the number of individuals emerging from the nest, their emergence patterns, the rate of their emergence, and even the sex of the individuals.





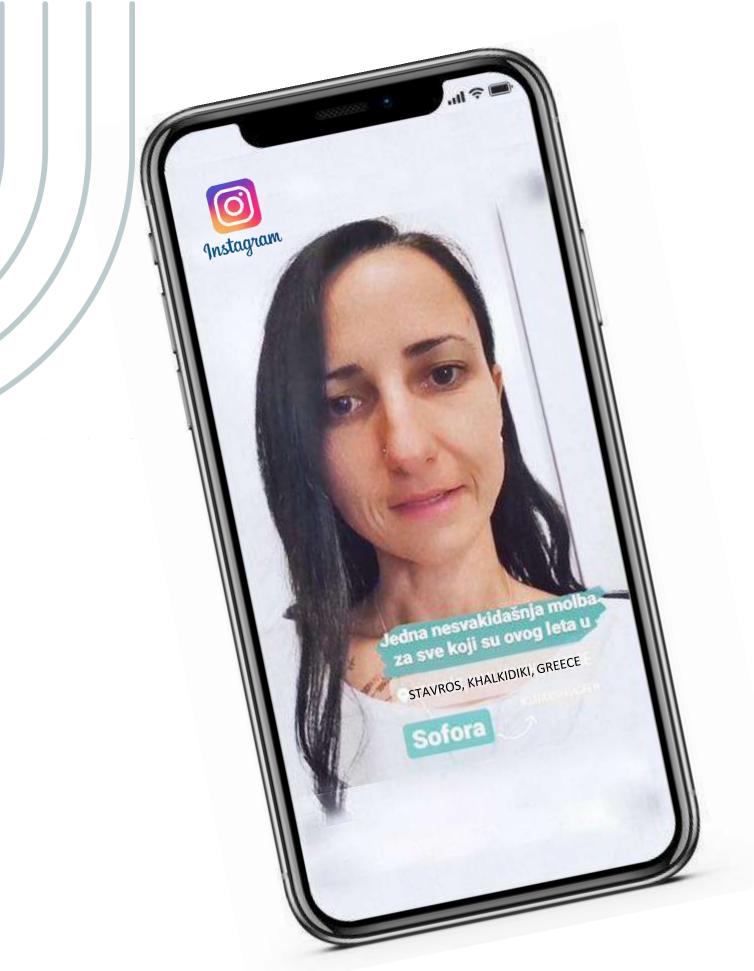




Styphnolobium japonicum Sophora, Japanese pagoda tree

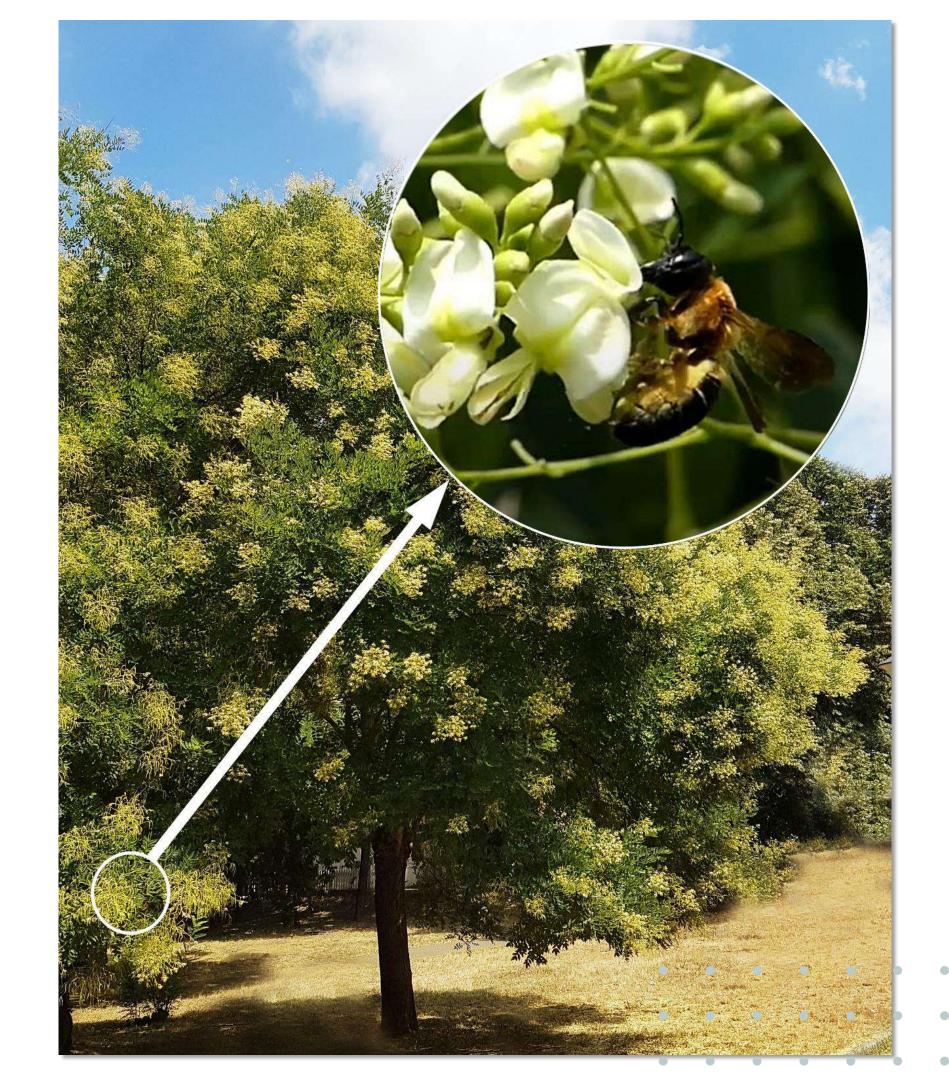


Sculptured resin bee (Megachile sculpturalis)

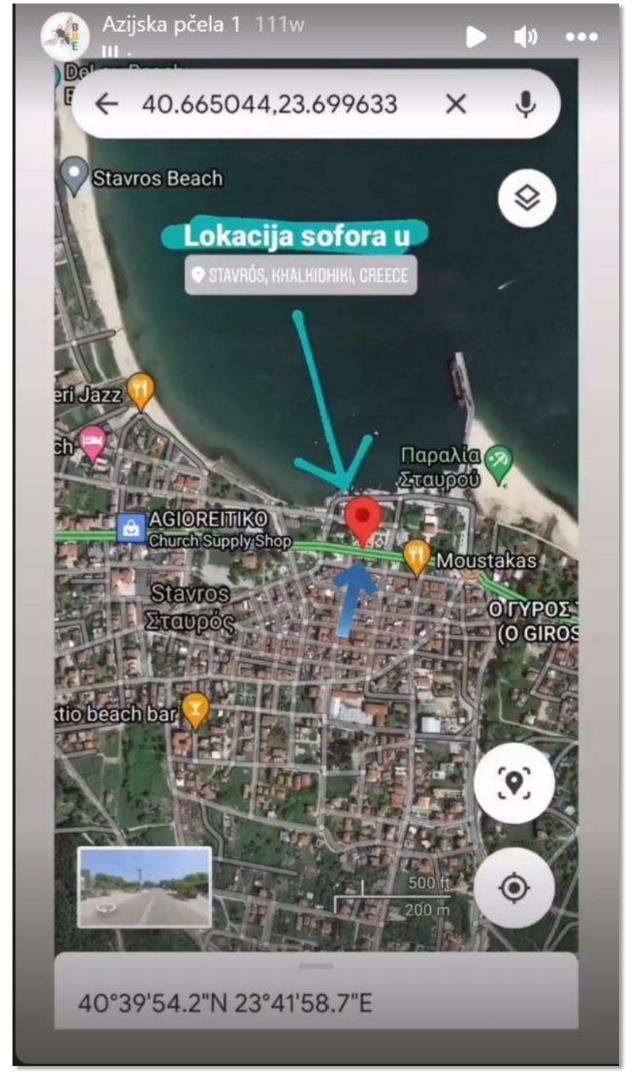




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2021.

Thanks to their efforts, I was able to get reliable information on the ground without having to organize a trip to Stavros myself.

How to adress and **connect** to people you are talking to

How to see their perspective

People will remember how they feel while doing something: show them how important their help is and recognize their contribution

Who is behind the information/message? Only then the audience will decide to trust us and join our cause

#### Power of citizen science

While my journey into citizen science began in parks and through random encounters, it has grown into a key part of my work. I've seen firsthand how engaging with the public can lead to breakthroughs and foster a deeper connection between people and nature. It's not just about collecting data; it's about empowering individuals to feel part of something larger and to contribute to the preservation of our natural world.

Turning curiosity into action, and action into change.

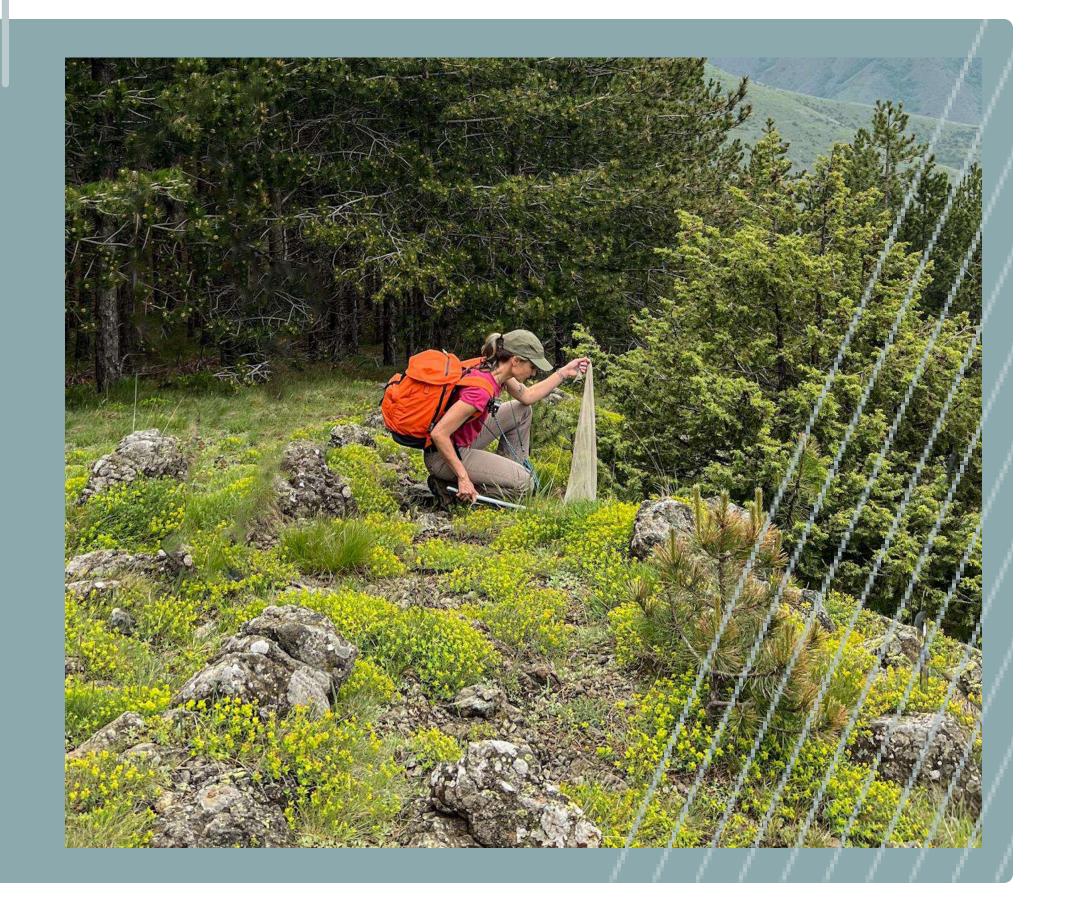
### Thank you

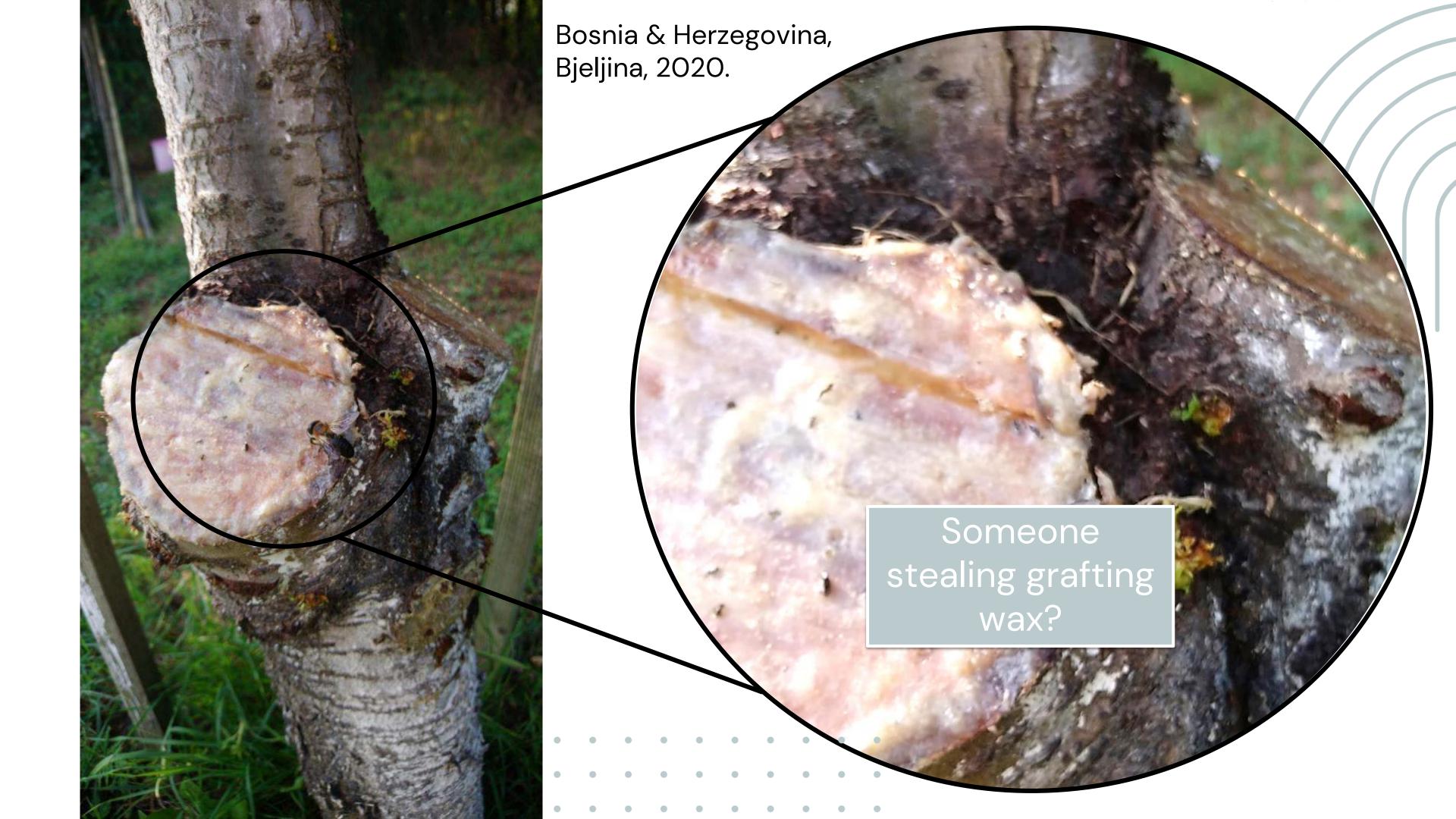
Questions?

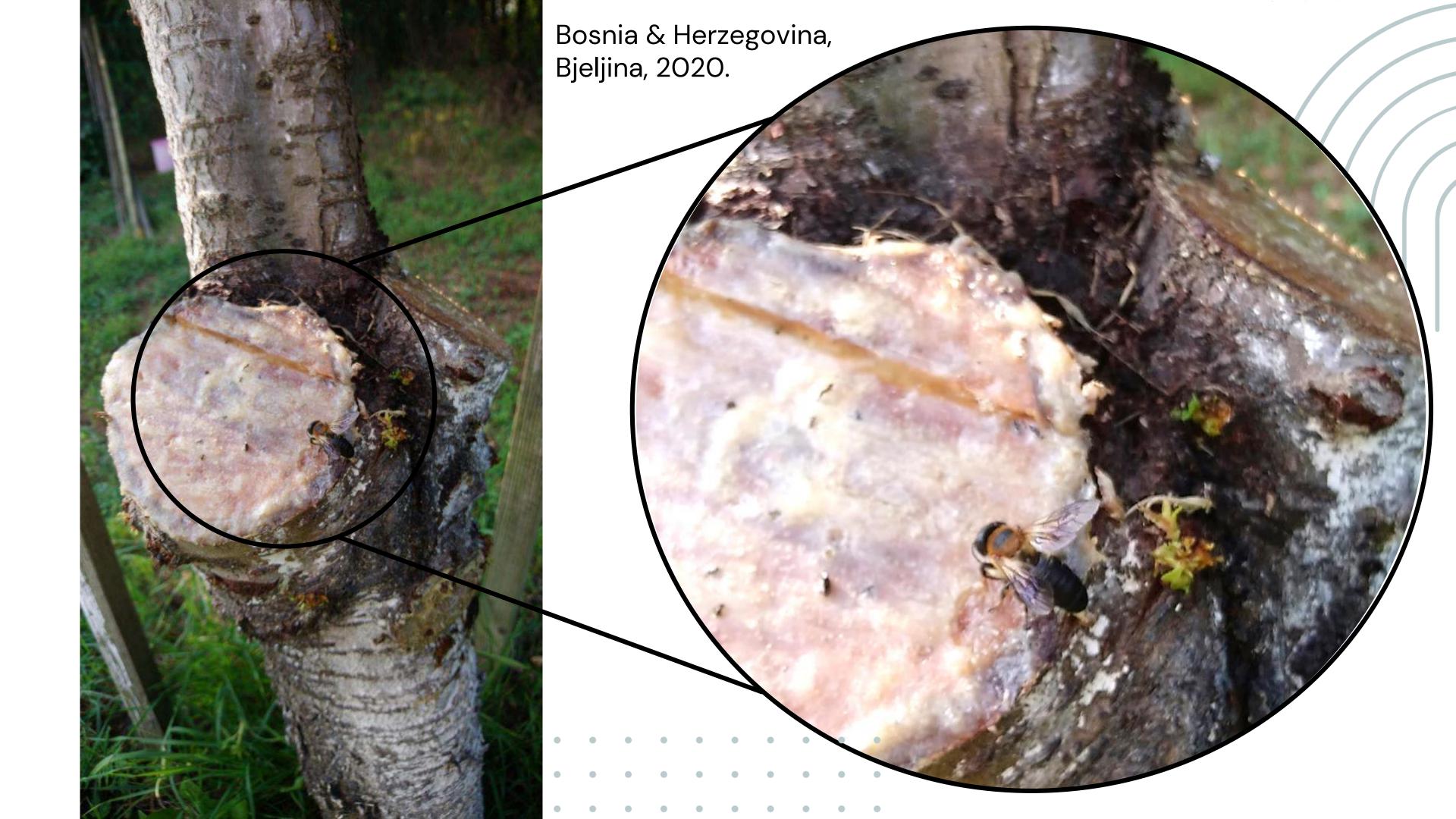
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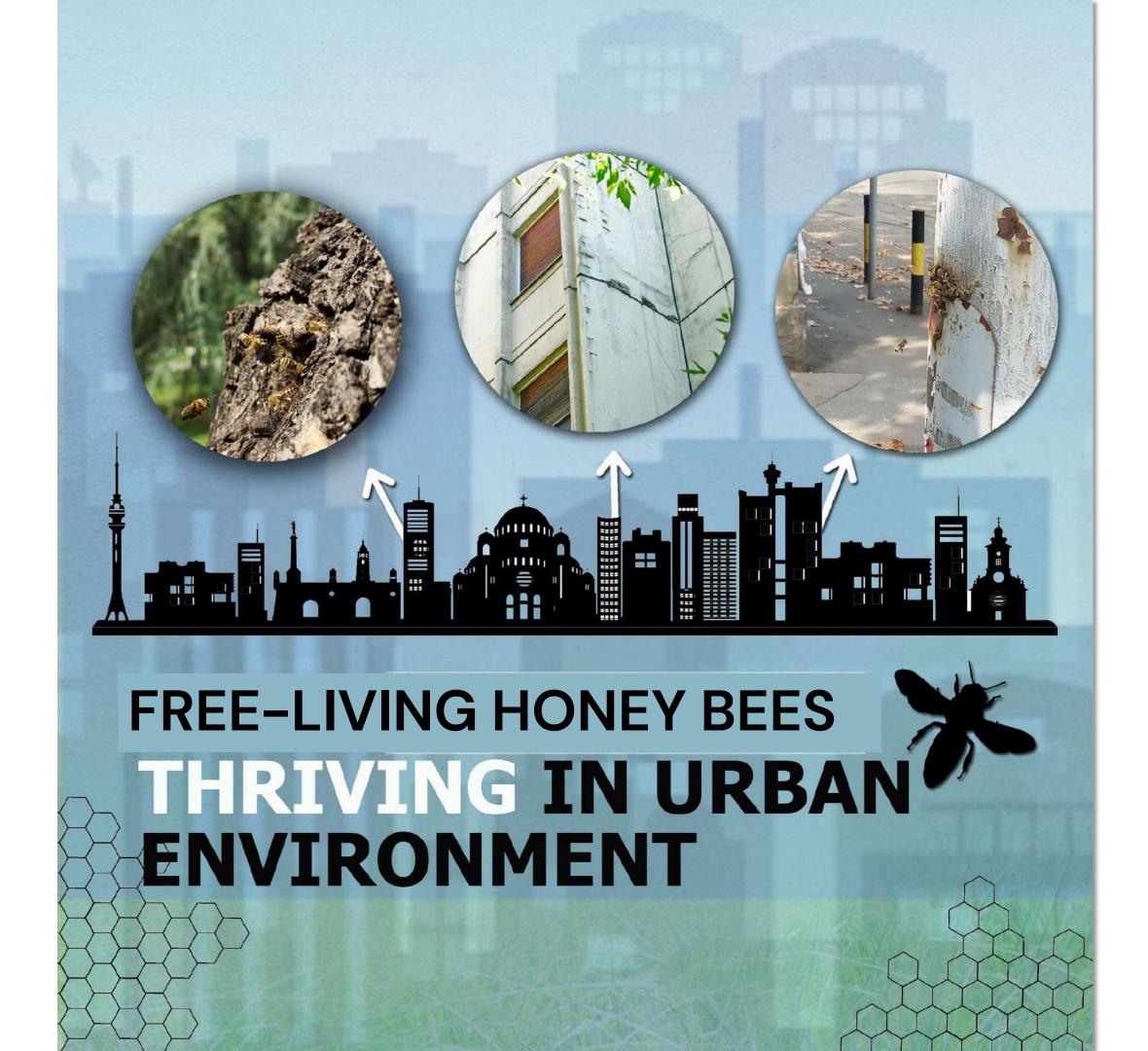
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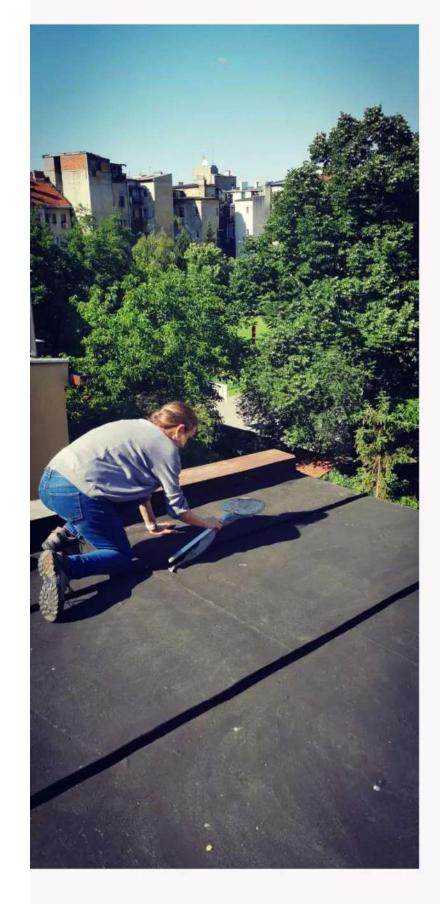


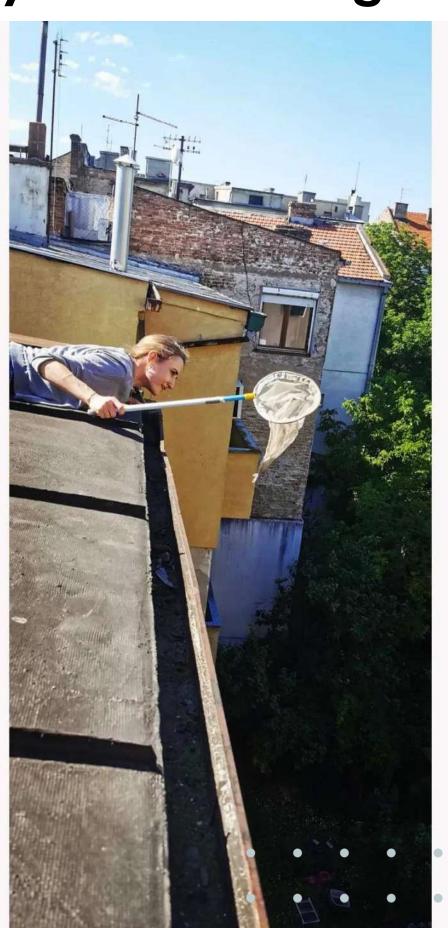


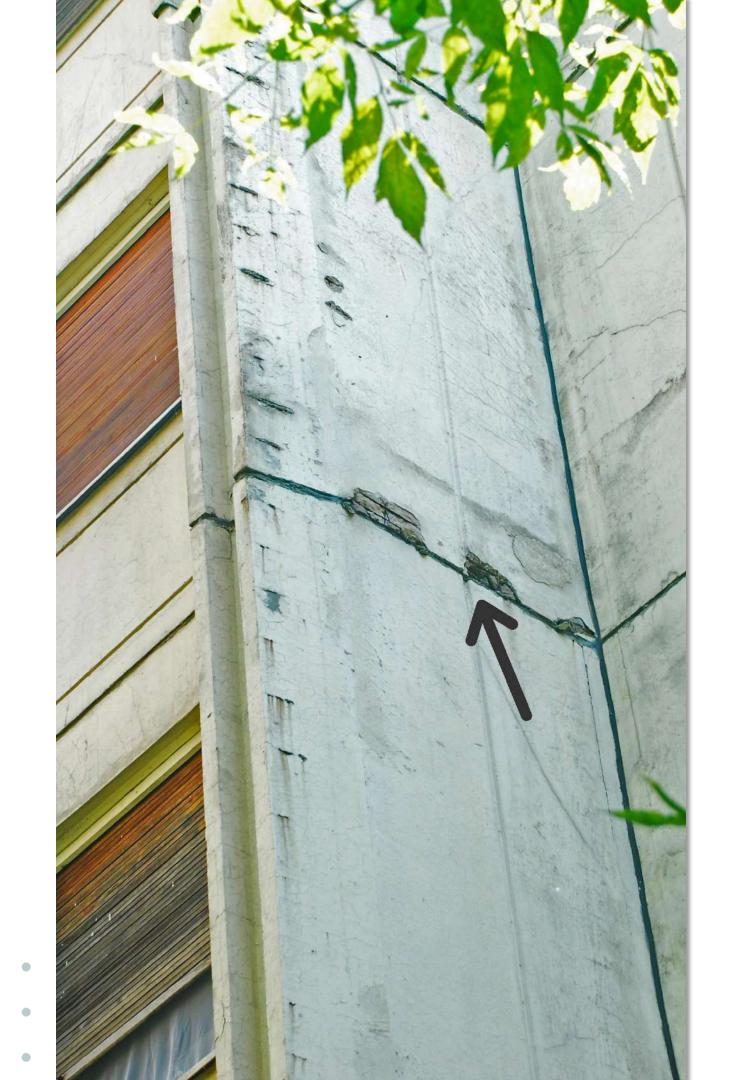
Free-living honey bees in Belgrade



#### Free-living honey bees in Belgrade





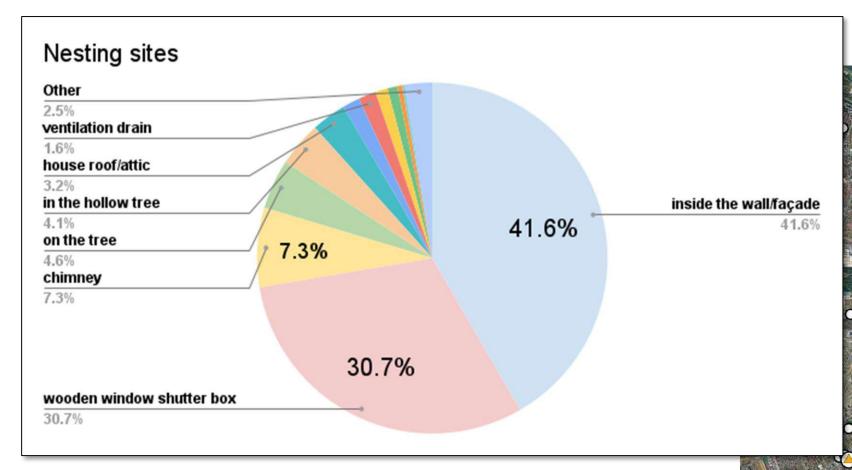


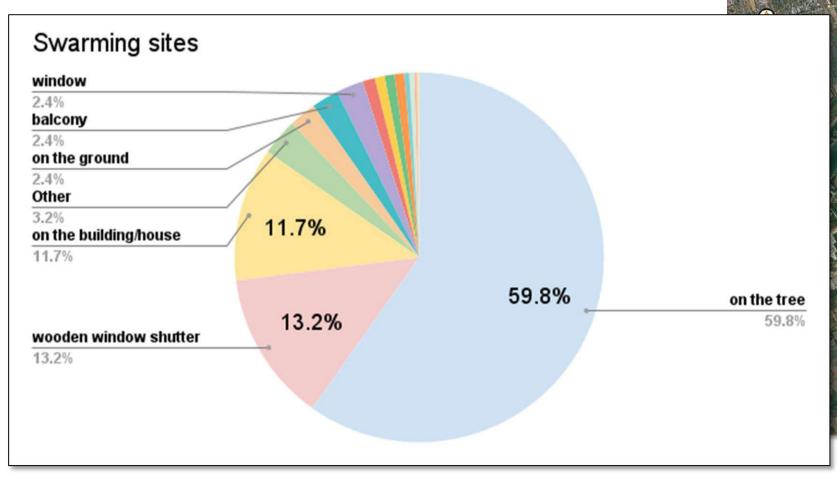


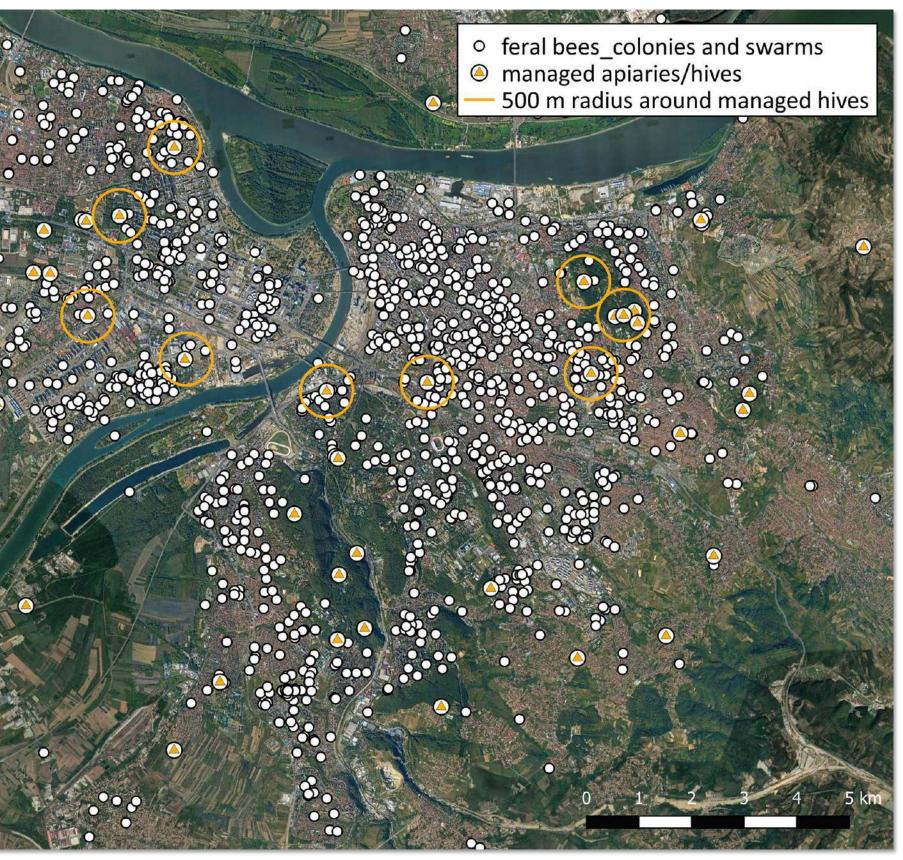


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Belgrade, period of 2011–2017