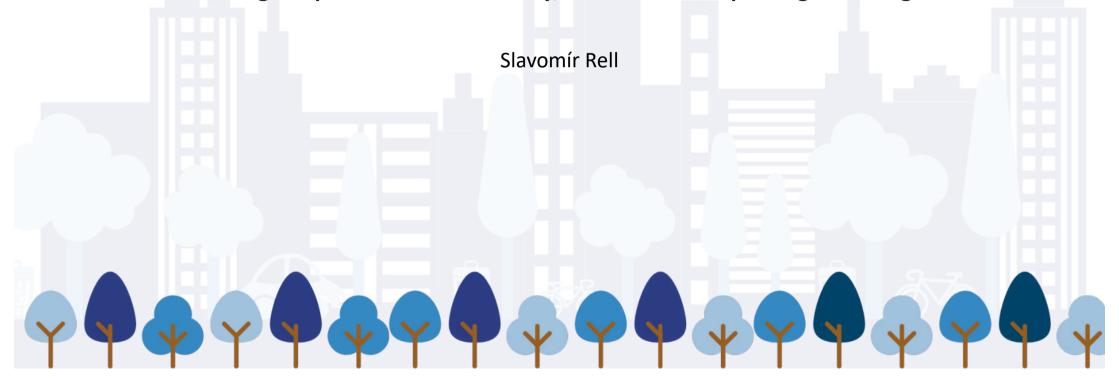






Skopje, North Macedonia 4-6 June 2024

#### Biological protection in forestry, use of entomopathogenic fungi



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### **Ips typographus**

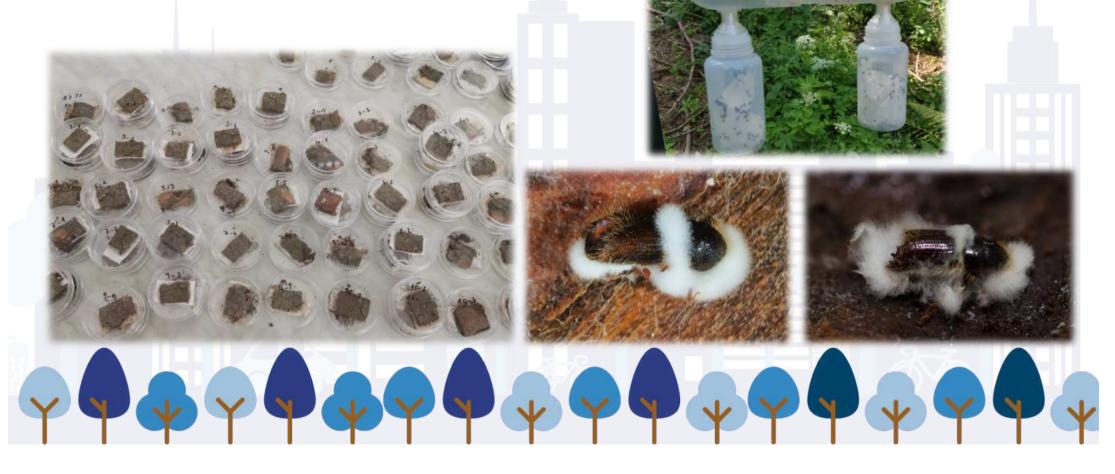
European spruce bark



# THE ROLE OF INVASIVE SPECIES IN URBAN FOREST PLANNING Skopje, North Macedonia 4-6 June 2024

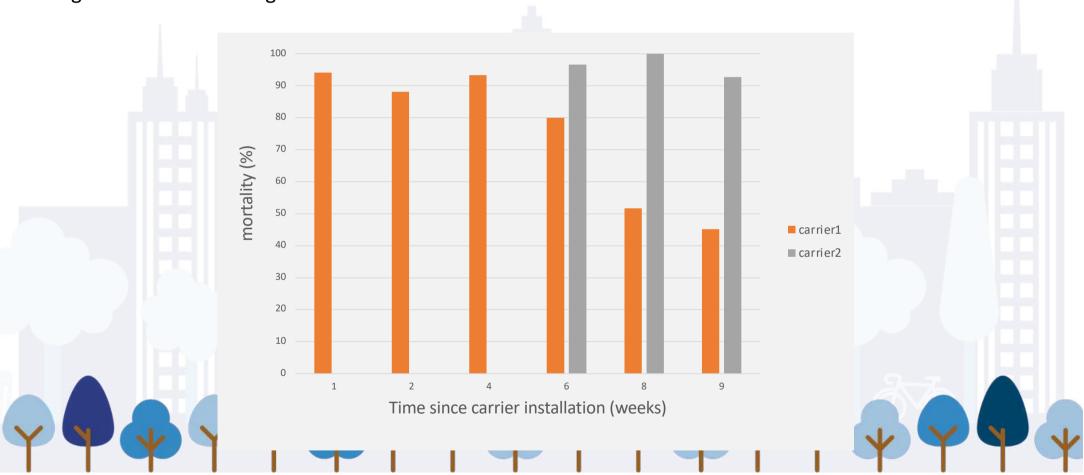


- 10 days evaluation period
- 3 evaluation levels



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- Killing the beetle takes 5 days on average
- High virulence for a long time



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#### Spruce logs colonized by infected bark beetles

- Logs were left for infestation for 24 hours
- One month under the canopy for self-development







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- Infected parental generation
- Mortality 52%
- No signs of infection in control log











### THE ROLE OF INVASIVE SPECIES IN URBAN FOREST PLANNING Skopje, North Macedonia

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# REUFIS

## **Hylobius abietis**

the large pine weevil

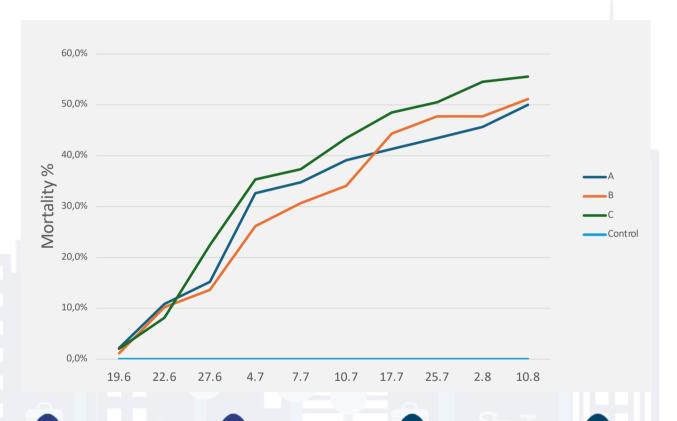


# THE ROLE OF INVASIVE SPECIES IN URBAN FOREST PLANNING Skopje, North Macedonia 4-6 June 2024

• Several experiments to test carrier







# REUFIS

## **Acknowledgment**

• APVV-21-0131



# THE ROLE OF INVASIVE SPECIES IN URBAN FOREST PLANNING Skopje, North Macedonia 4-6 June 2024



#### Thank You

