

# Implementation of connectivity - international and national perspective

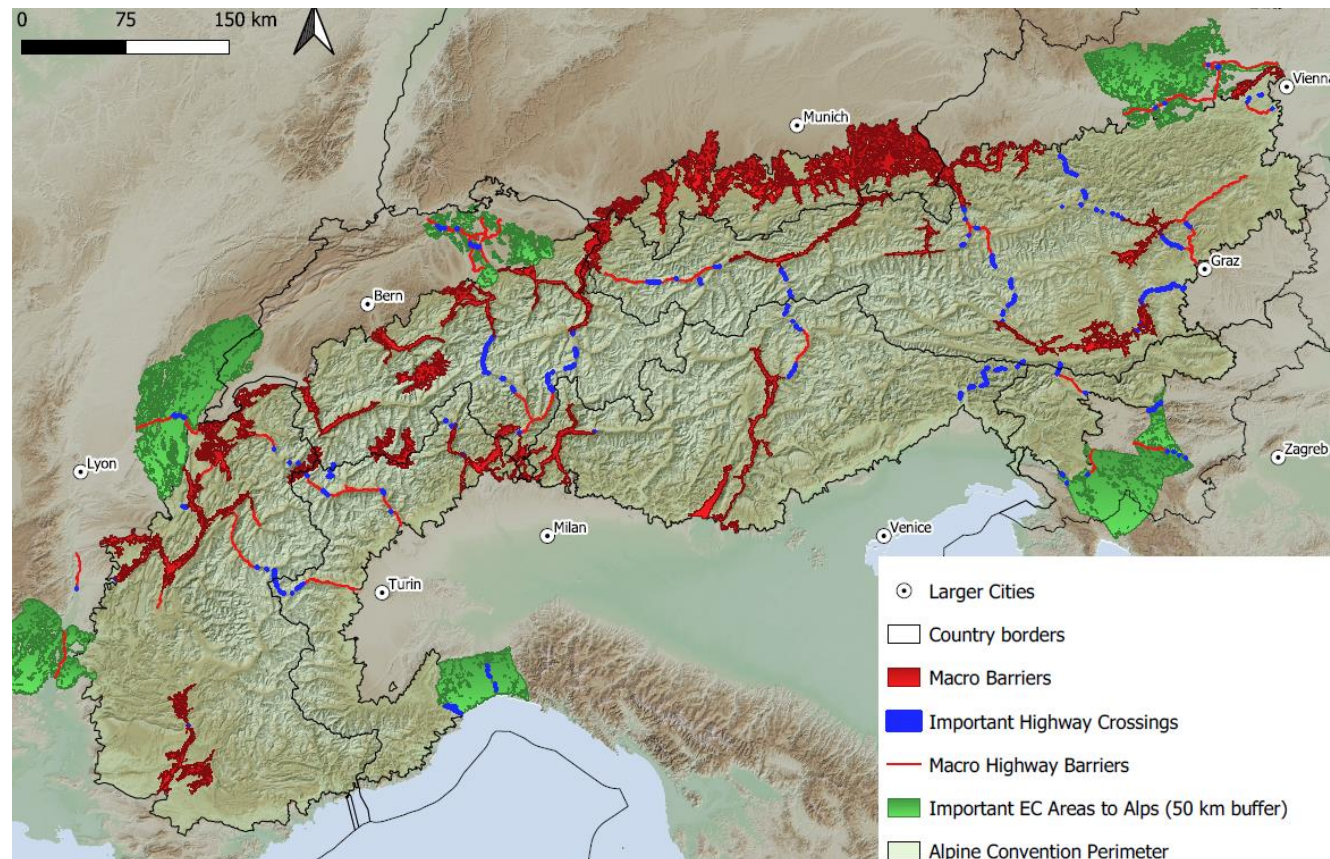
Rok Černe



# BACKGROUND

## STUDYES CARRYED OUT WITHIN INTERNATIONAL CONVENTIONS

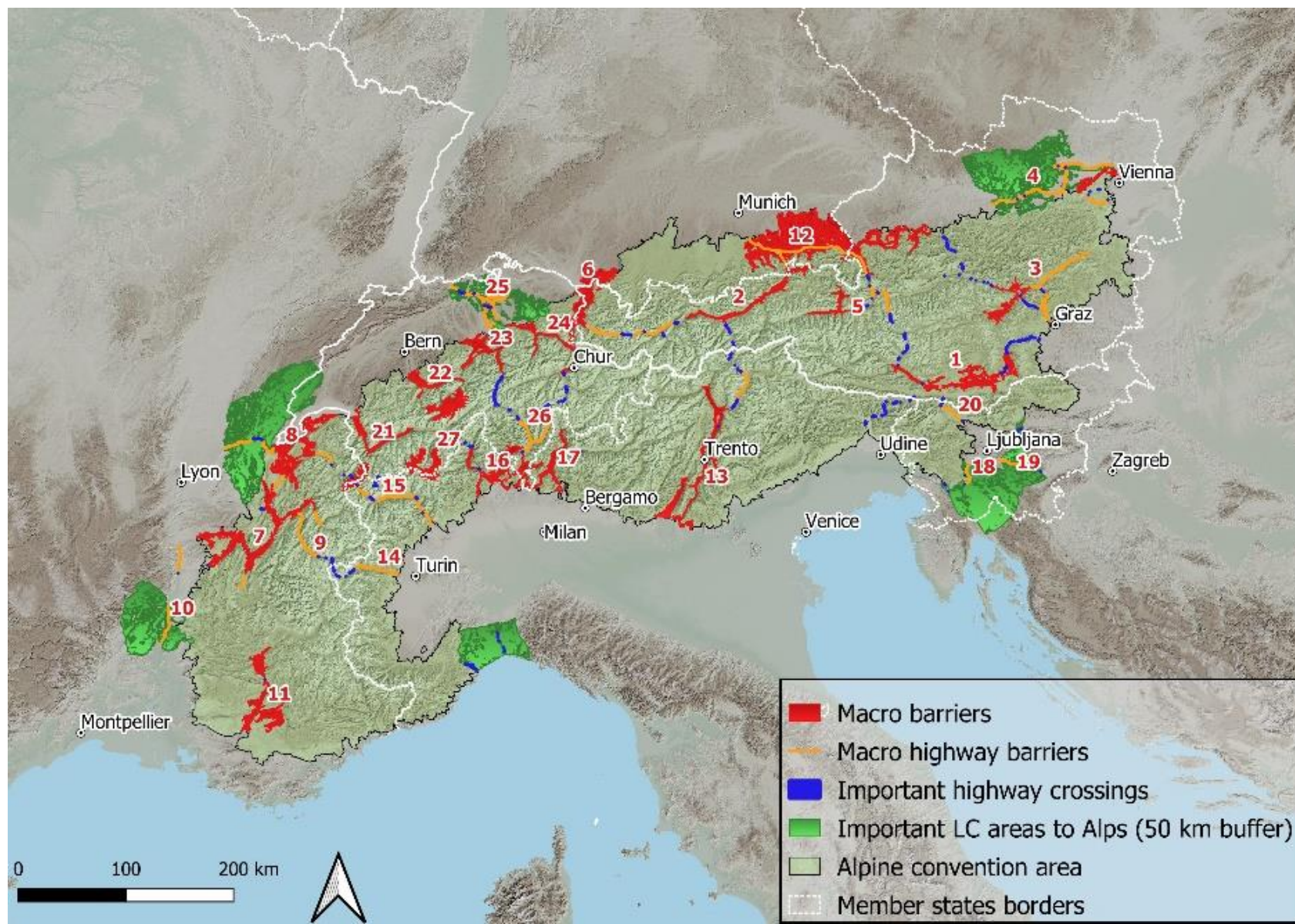
Example: Landscape connectivity for large carnivores and wild ungulates in the Alps



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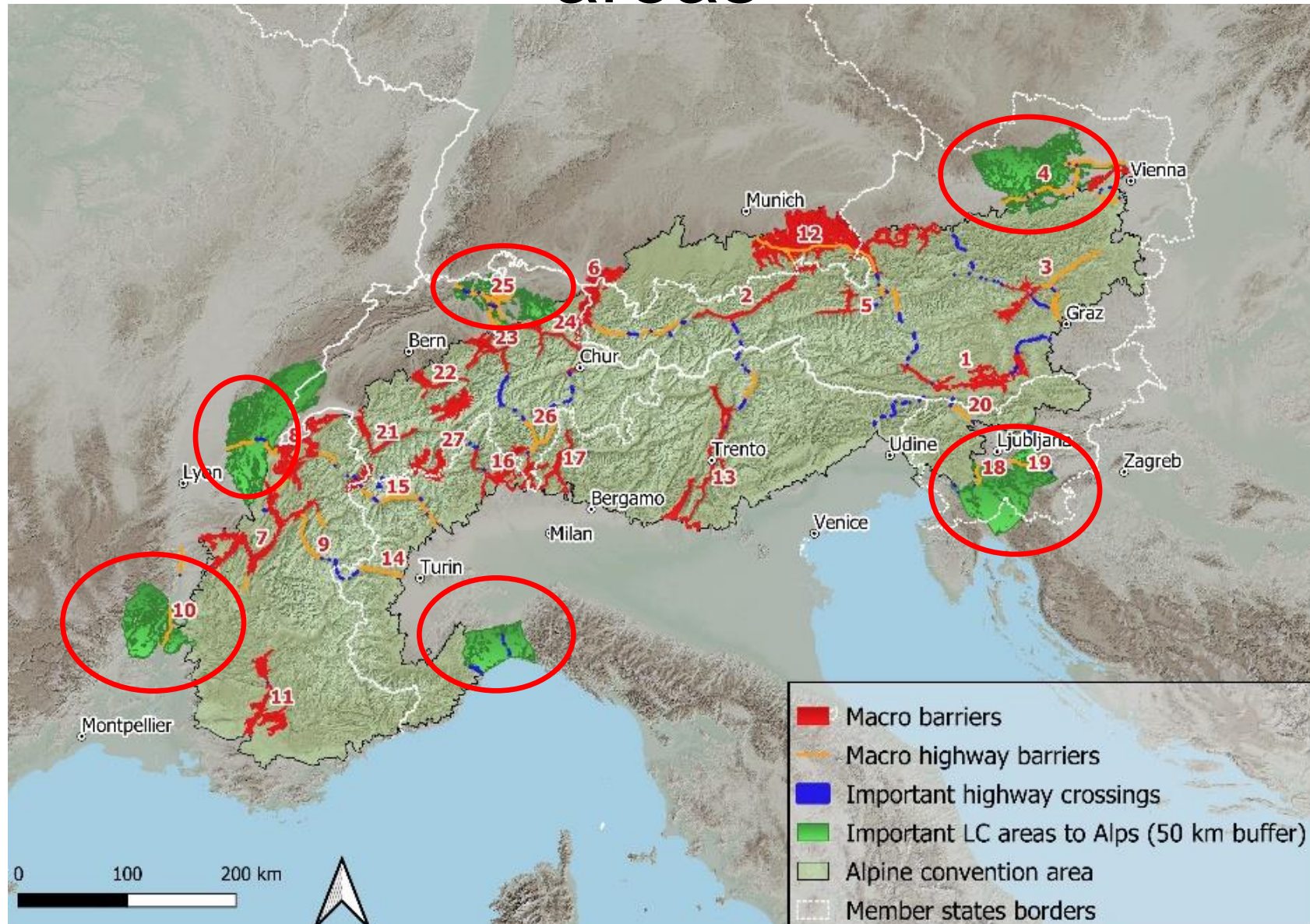


# Connectivity Alps





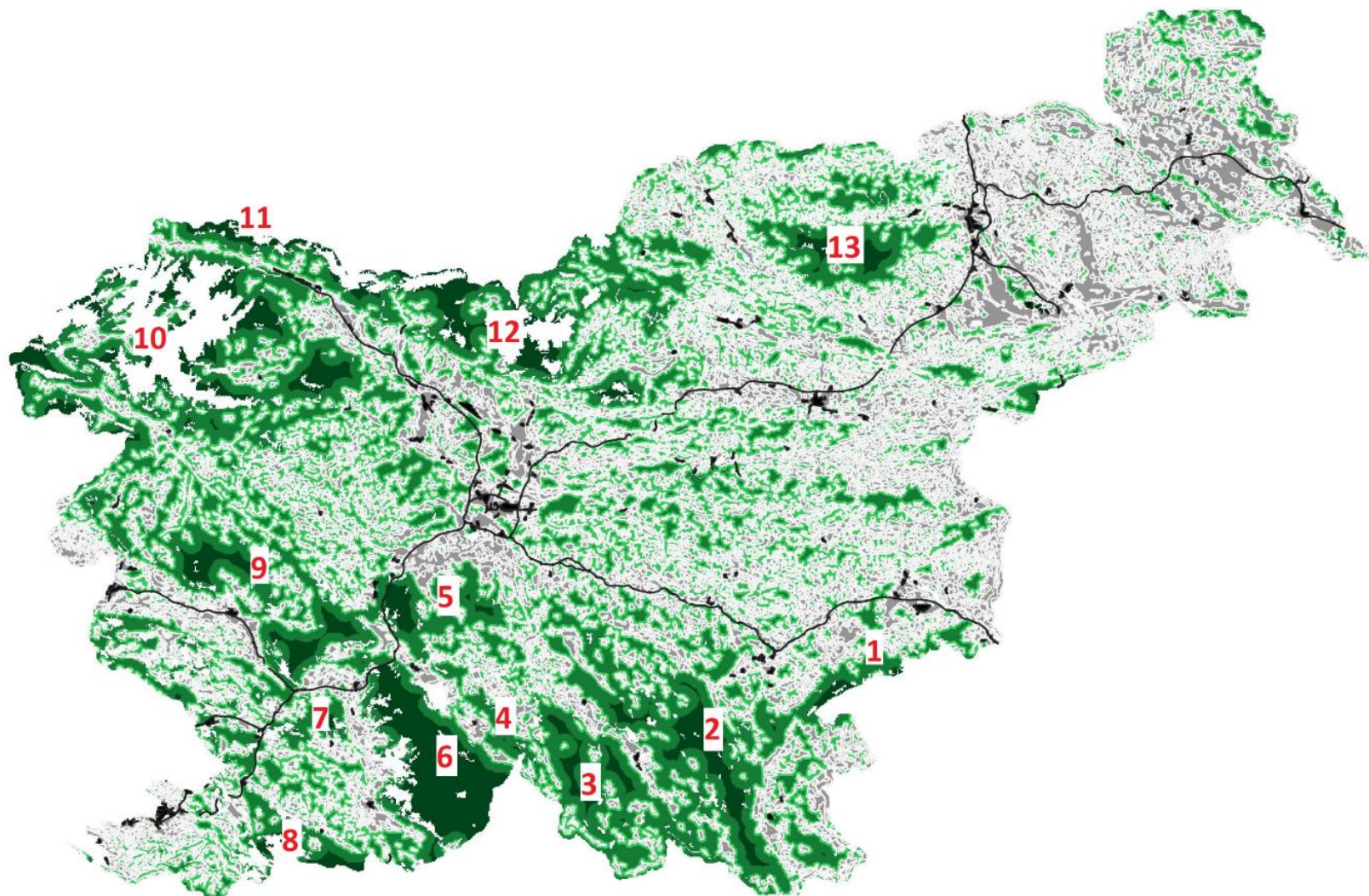
# Connectivity Alps – neighbouring areas



Next steps?



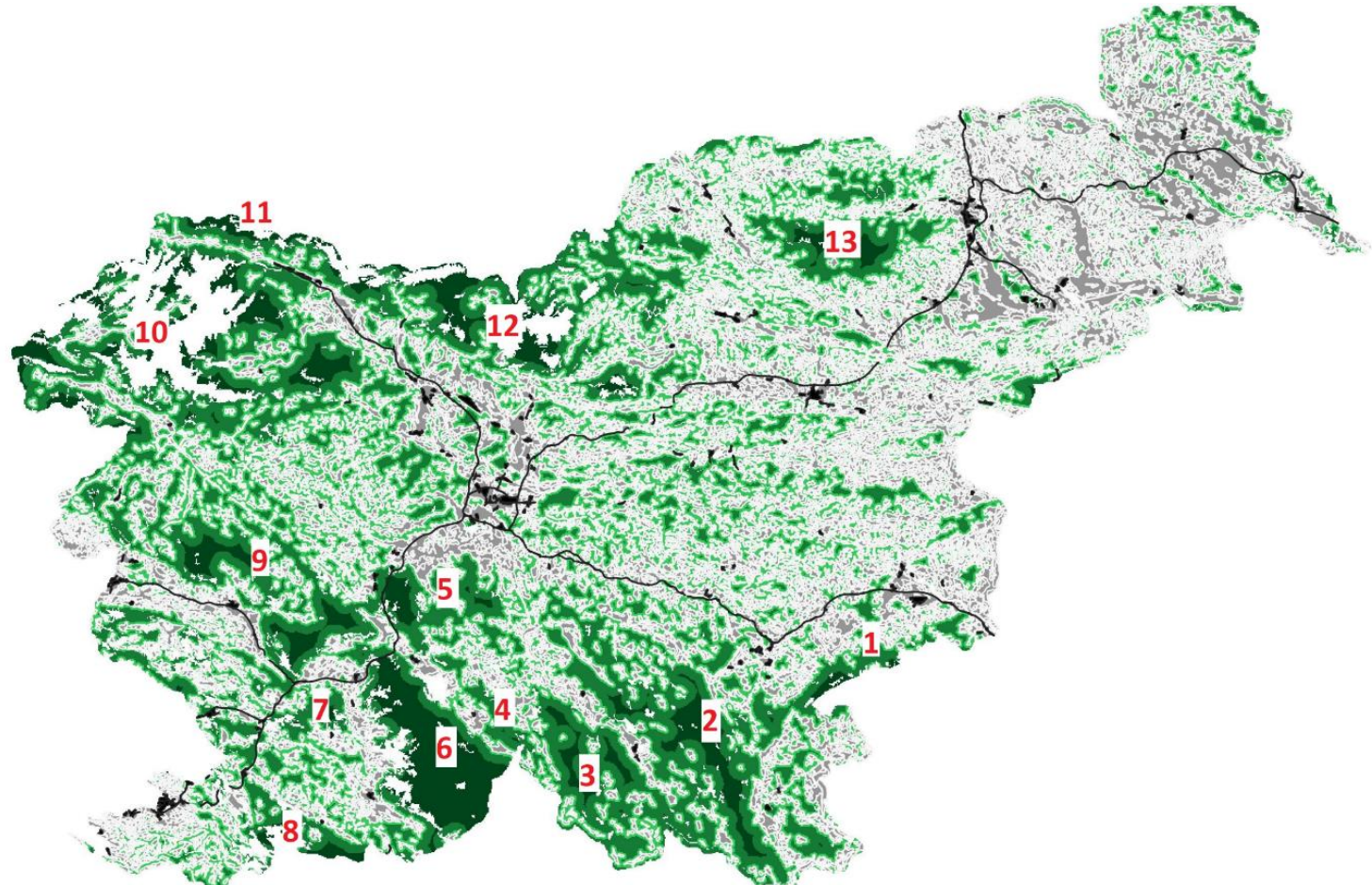
# SLOVENIA



# IDENTIFYING POTENTIAL MOVEMENT CORRIDORS

- There was no study available that would serve our purpose.
- Therefore we conducted an analysis to identify potential corridors (3 STEPS):

## 1. STEP: Identifying „habitat“ large forested areas

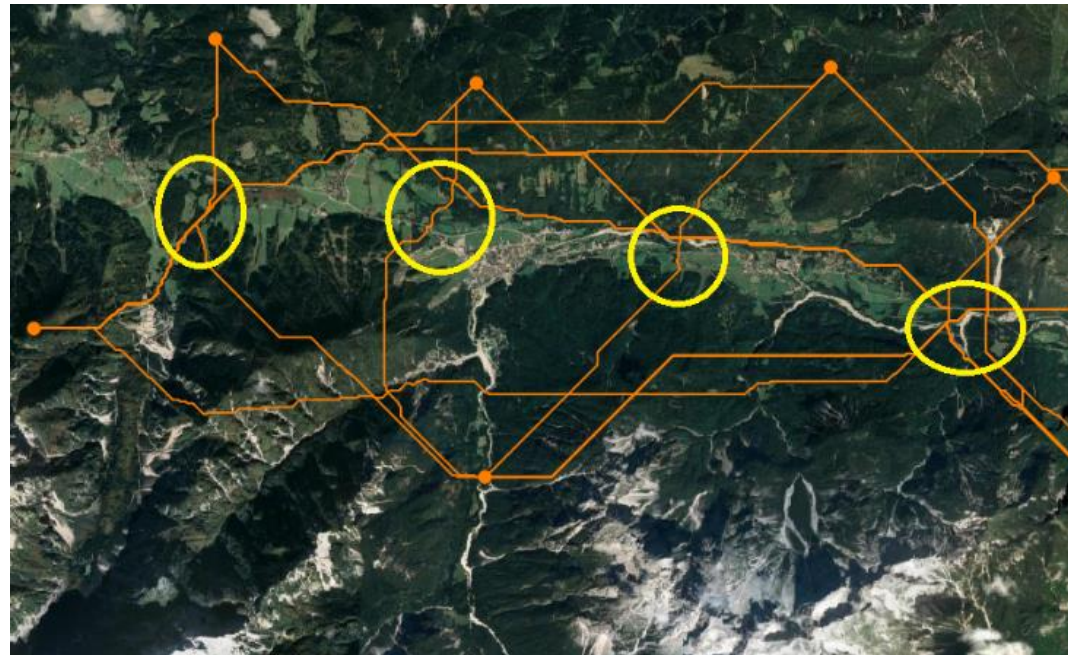




# IDENTIFYING POTENTIAL MOVEMENT CORRIDORS

## 2. STEP: Connectivity analysis

- Least-cost-path analysis



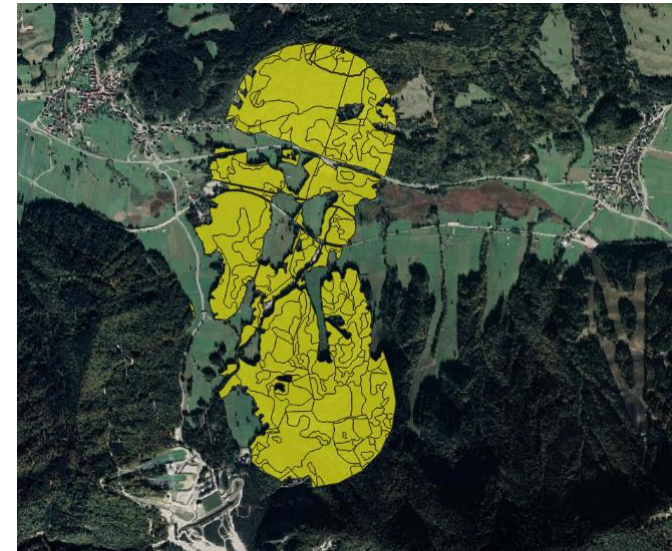
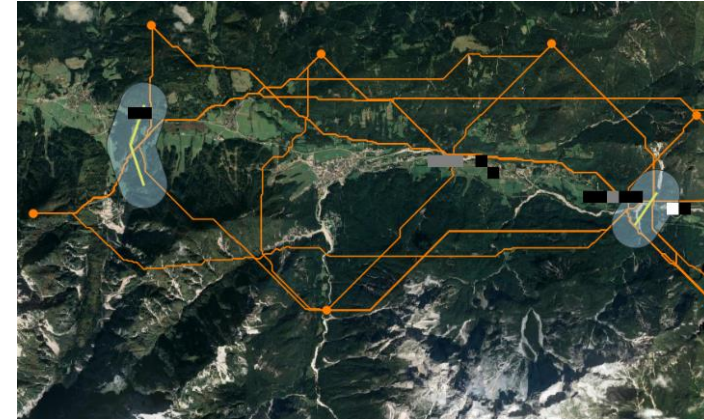




# IDENTIFYING POTENTIAL MOVEMENT CORRIDORS

## 3. STEP: verifying and mapping corridors

- Roadkill data,
- GPS movement data (if available),
- Local knowledge → regional SFS wildlife managers
- Mapping corridor width → Edge effect (Beier P. 2018)

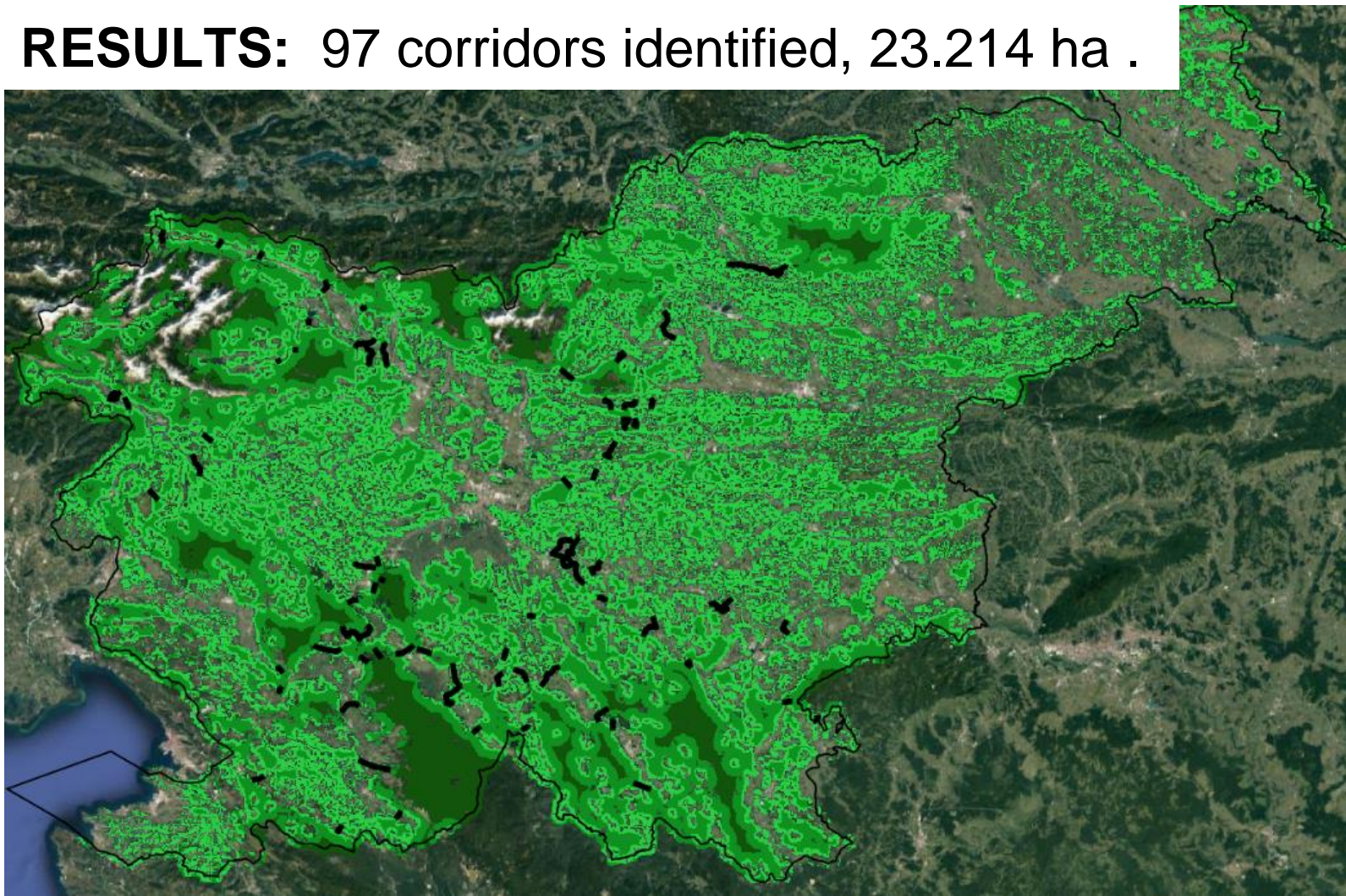






# IDENTIFYING POTENTIAL MOVEMENT CORRIDORS

**RESULTS:** 97 corridors identified, 23.214 ha .

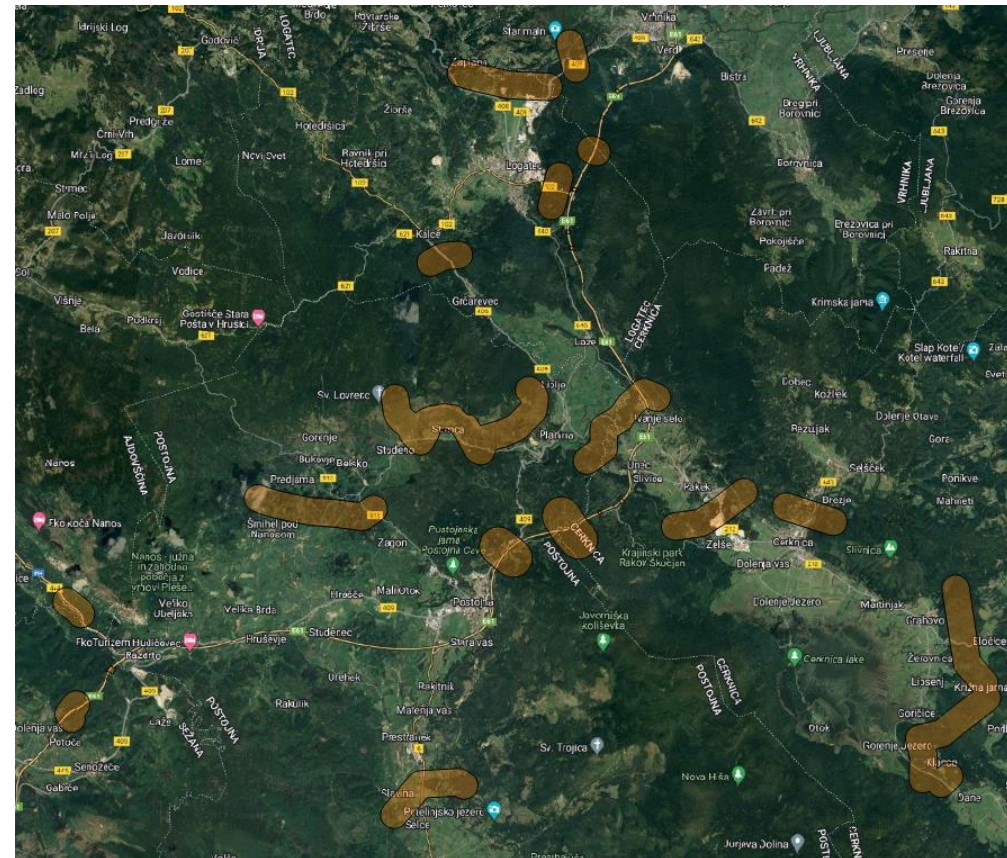






## INCLUDING MOVEMENT FOREST AND WILDLIFE MANAGEMENT PLANS

- Identified corridor were included into proposed regional forest and wildlife management plans for the period of 2021-2030.
  - Forests within each corridor area were assigned as biotopic important areas (biotopic function on the 1st order of importance).
- ↓
- Deforestation is prohibited within the corridor area.



Identified corridors part of the Notranjska region.



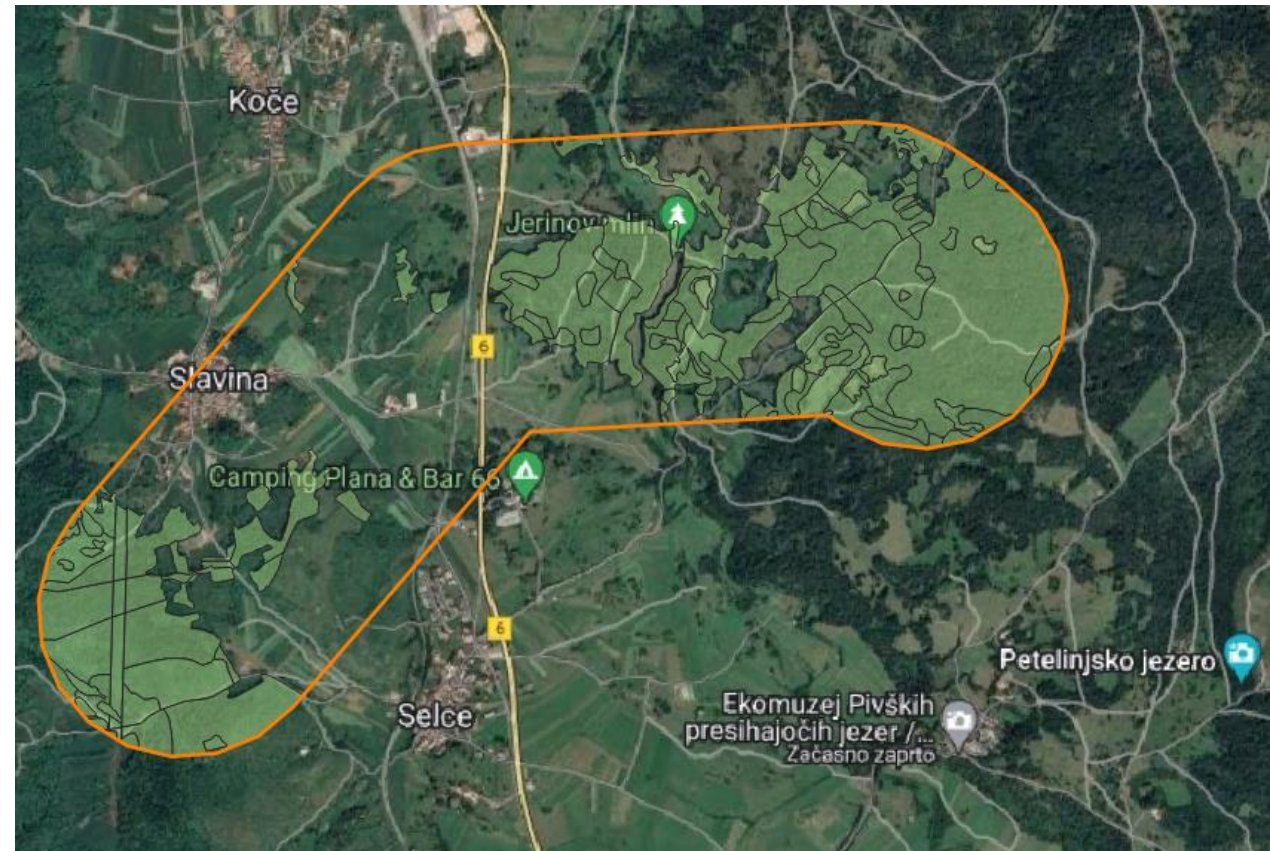
## INCLUDING MOVEMENT FOREST AND WILDLIFE MANAGEMENT PLANS

### FURTHER WORK:

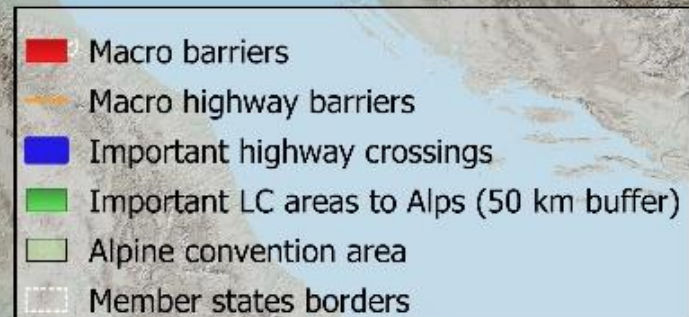
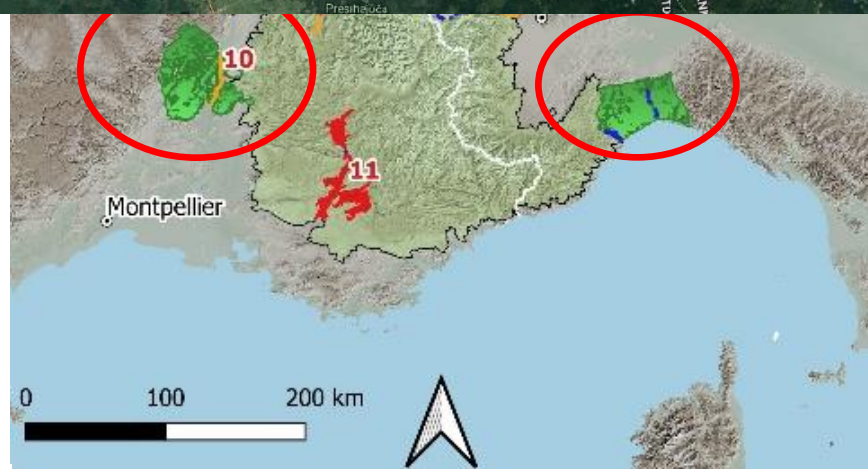
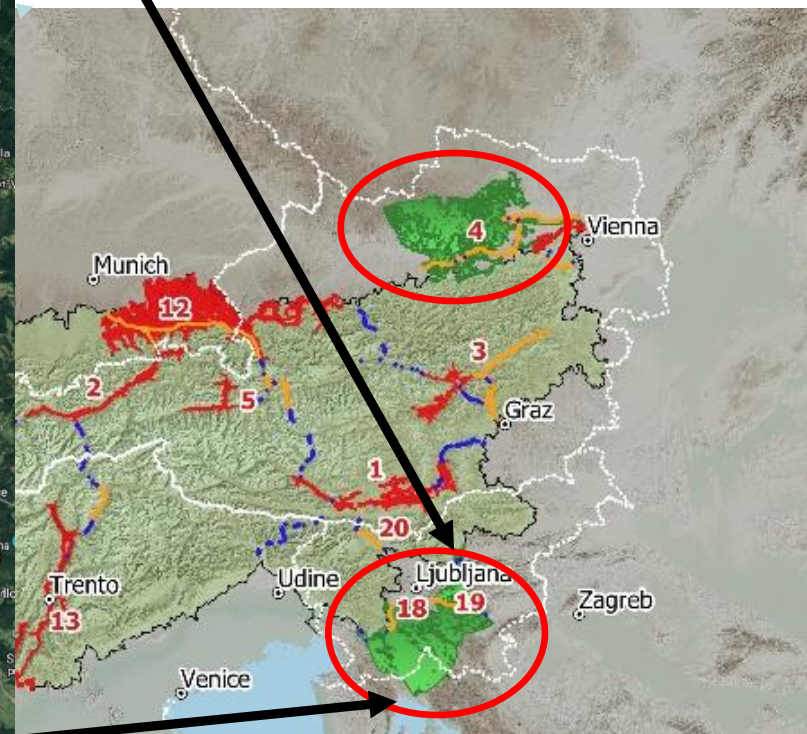
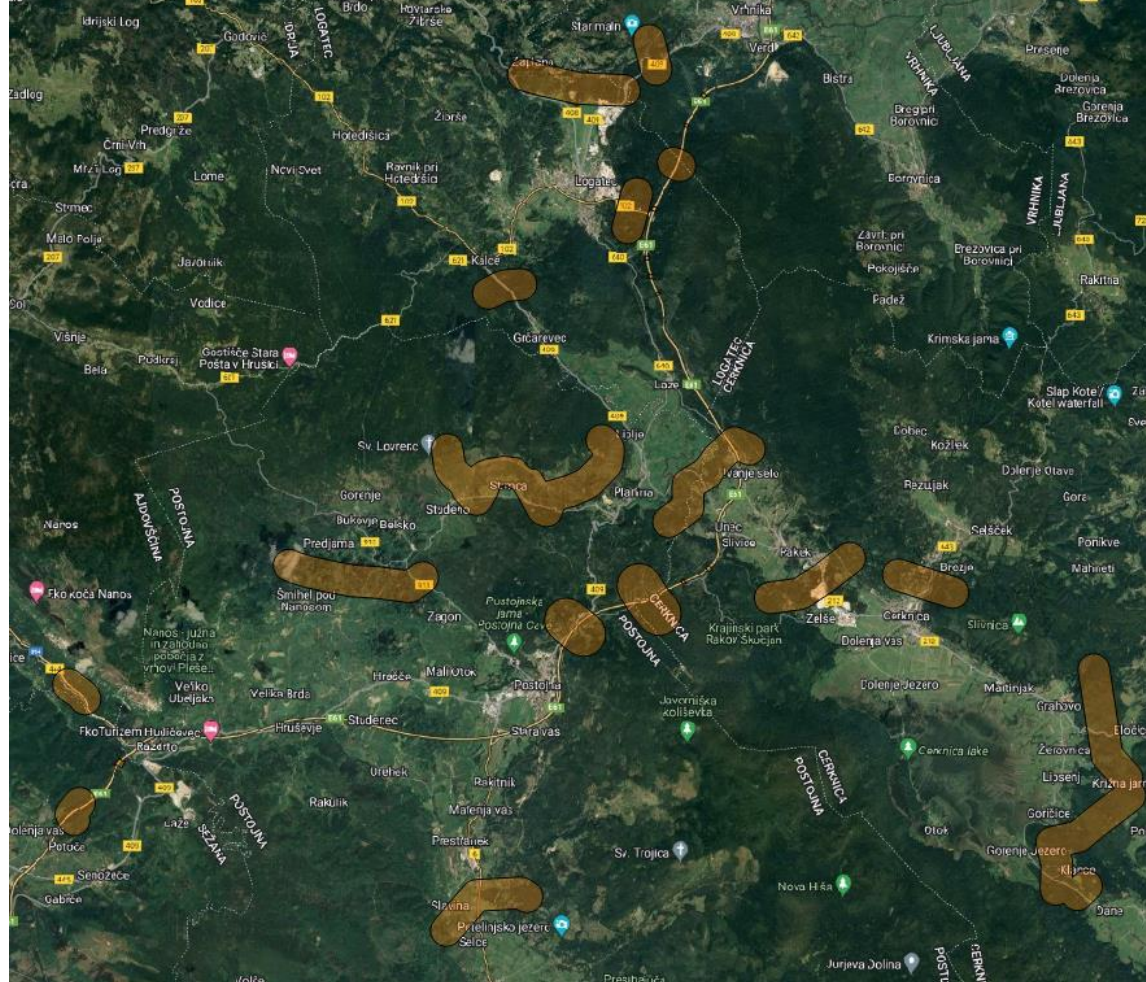
- What about the protection of agricultural land within the corridor?



- **Our temporary solution:** recommendations within the proposed wildlife management plans







# National level

- How to improve protection of grasslands – reforestation?
- What measures should be undertaken within corridor areas?
- What will happen after 10 years?
- How to further implement corridor projection into spatial management planning?



# International level

- How to improve corridor protection/restauration on the international level?
- Nature restauration law?