

Carabidae

Đerdap National Park
- diversity and conservation -

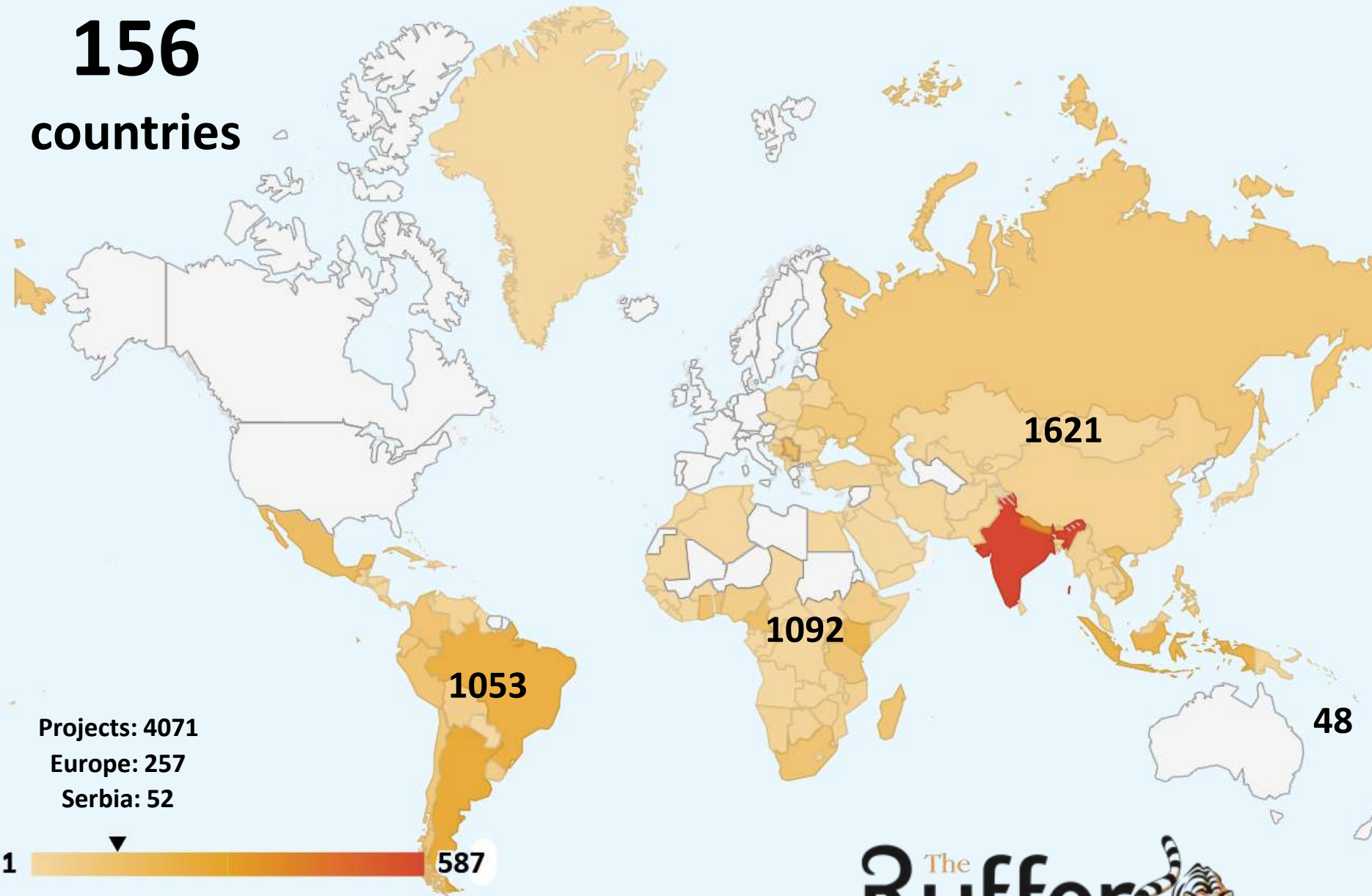


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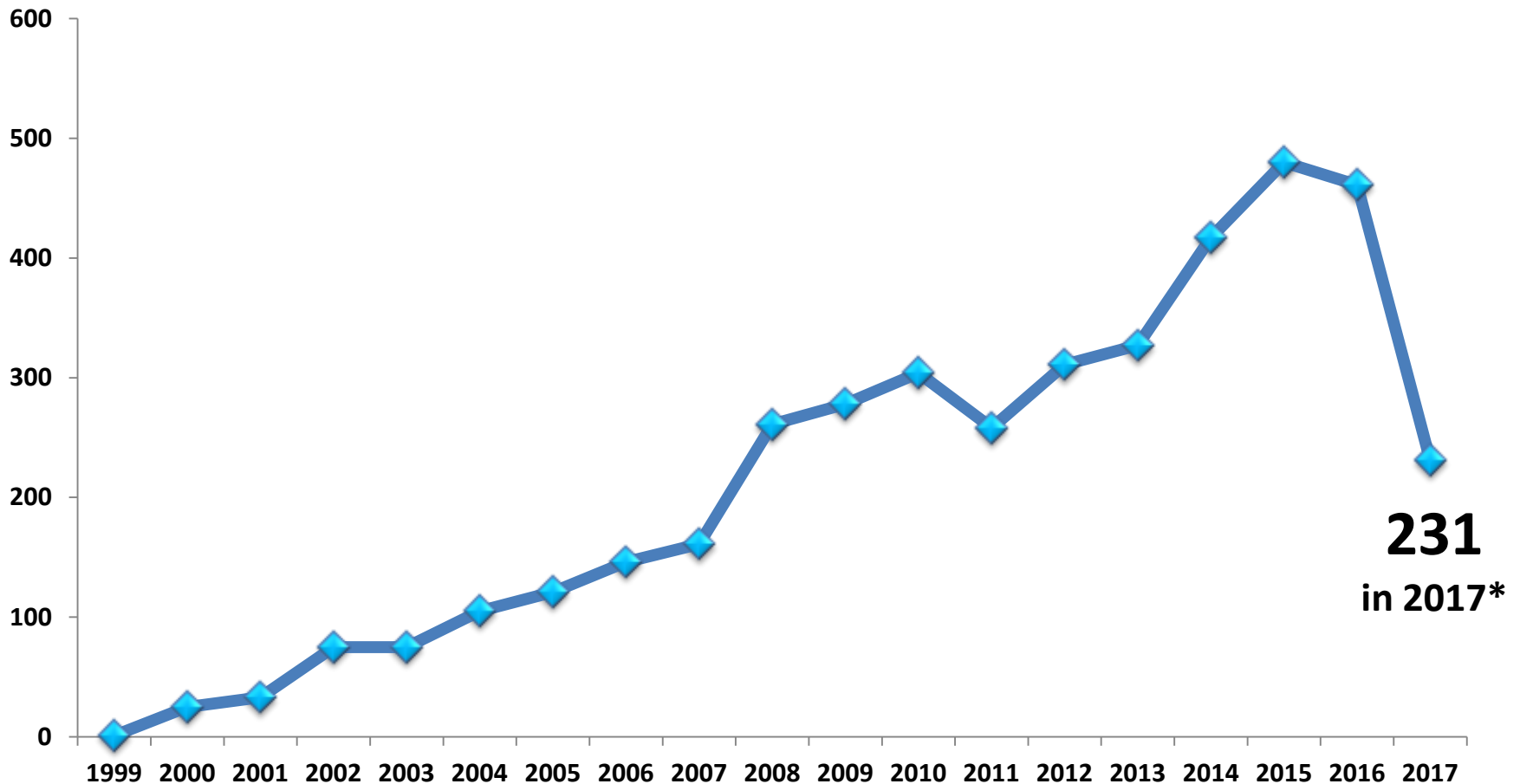


Carabus (Morphocarabus) versicolor simulator Kraatz, 1876

156 countries



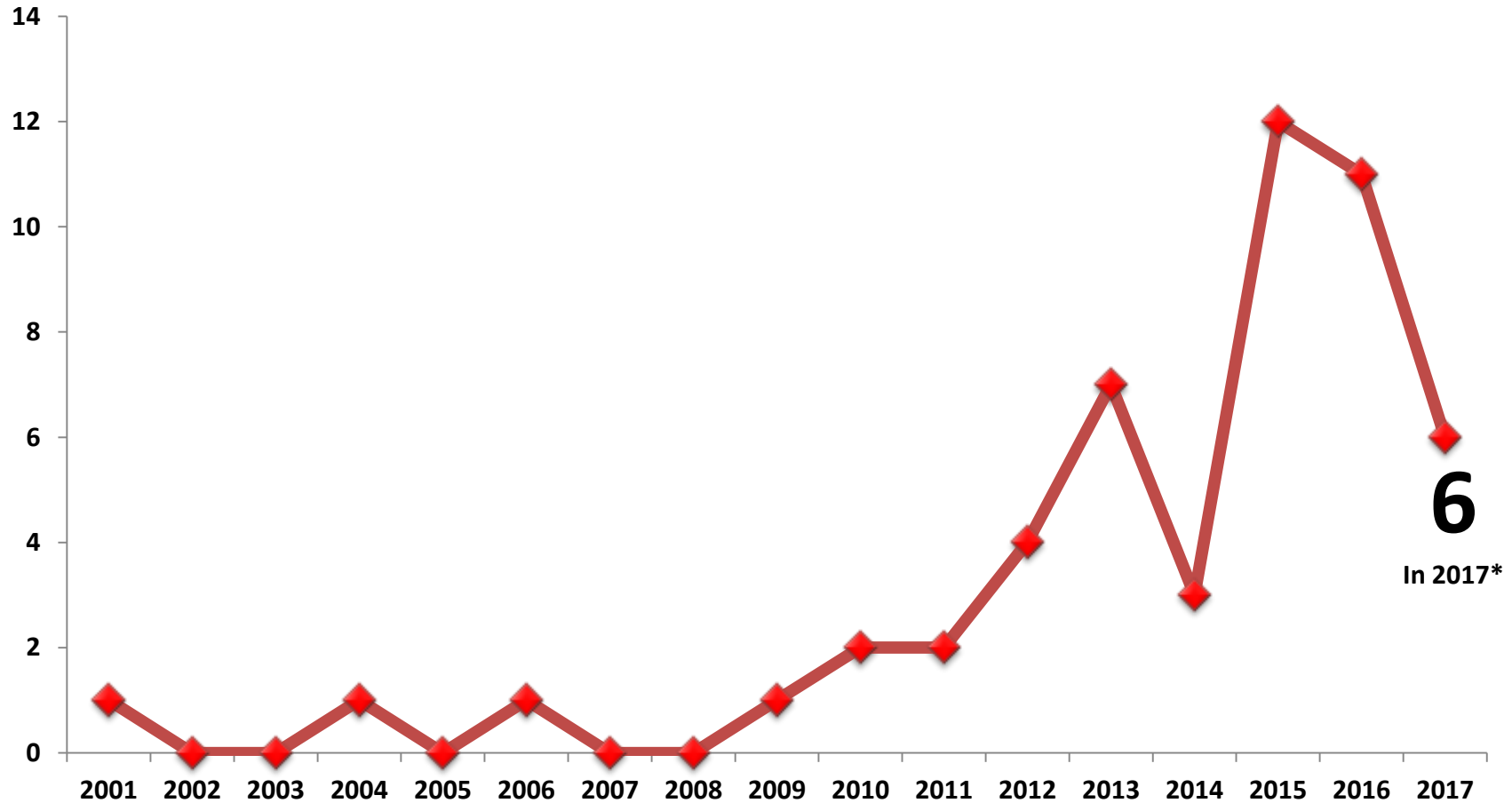
Projects - World



231
in 2017*

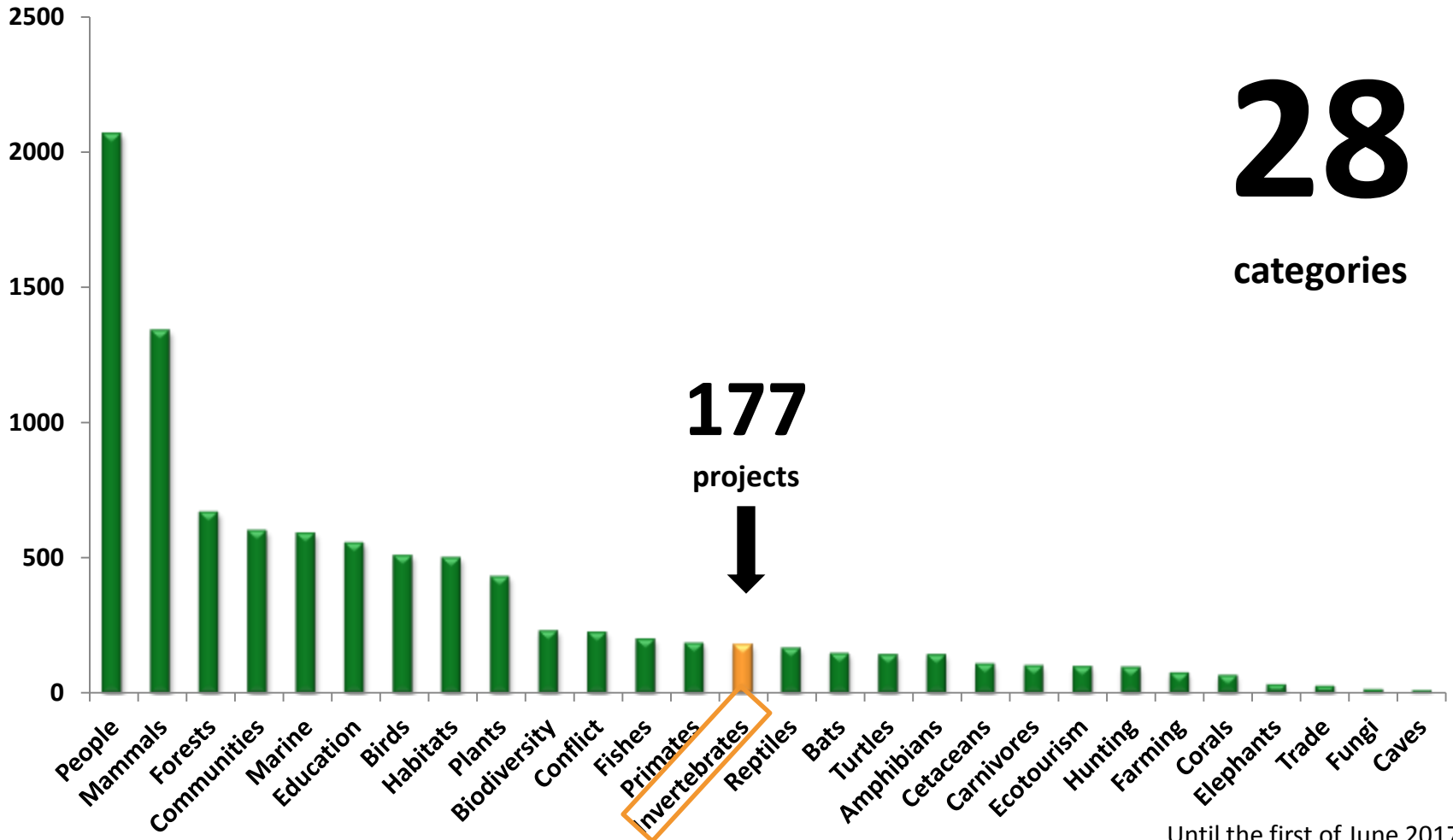
*Until the first of June 2017

Projects- Serbia



*Until the first of June 2017

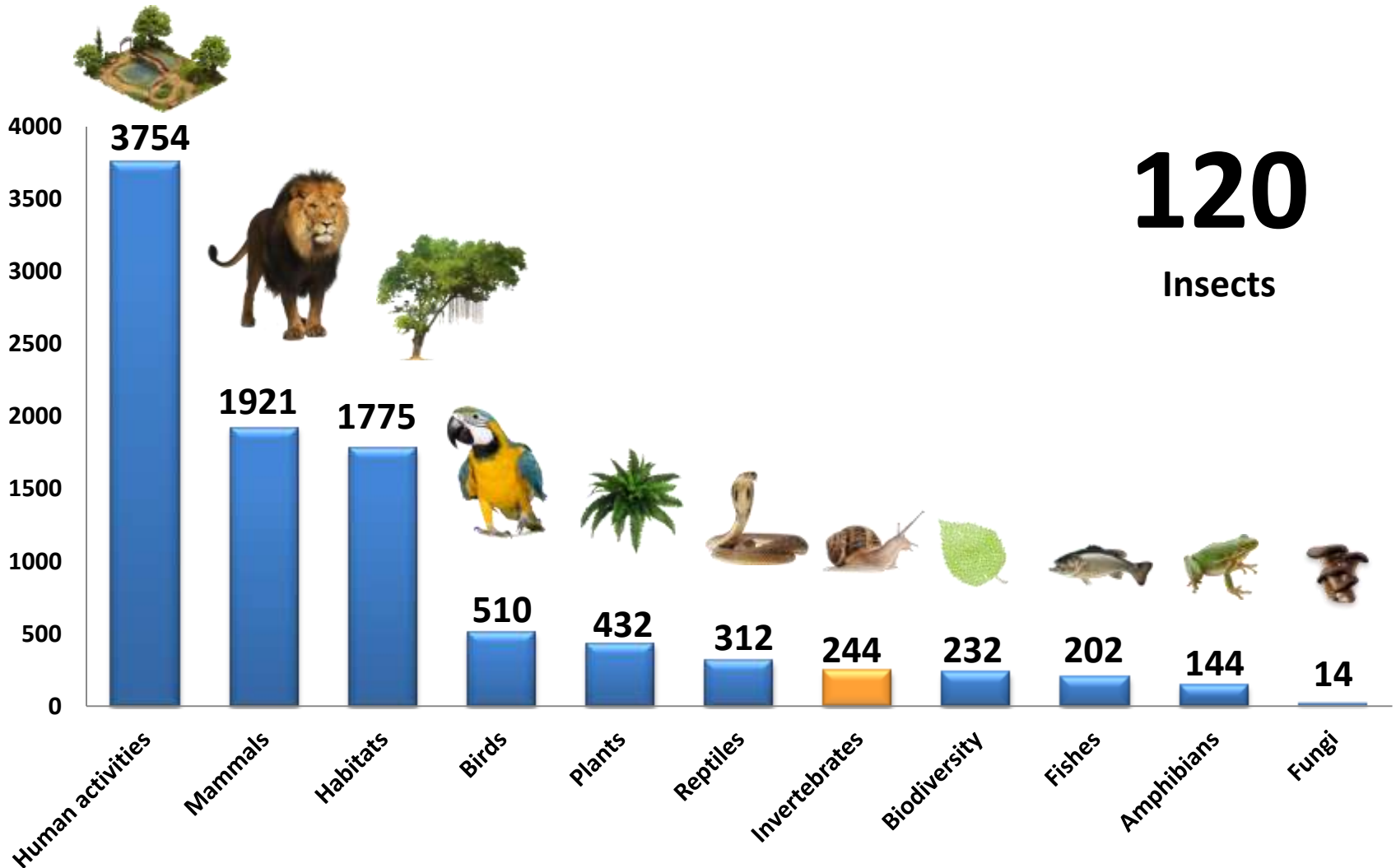
Categories



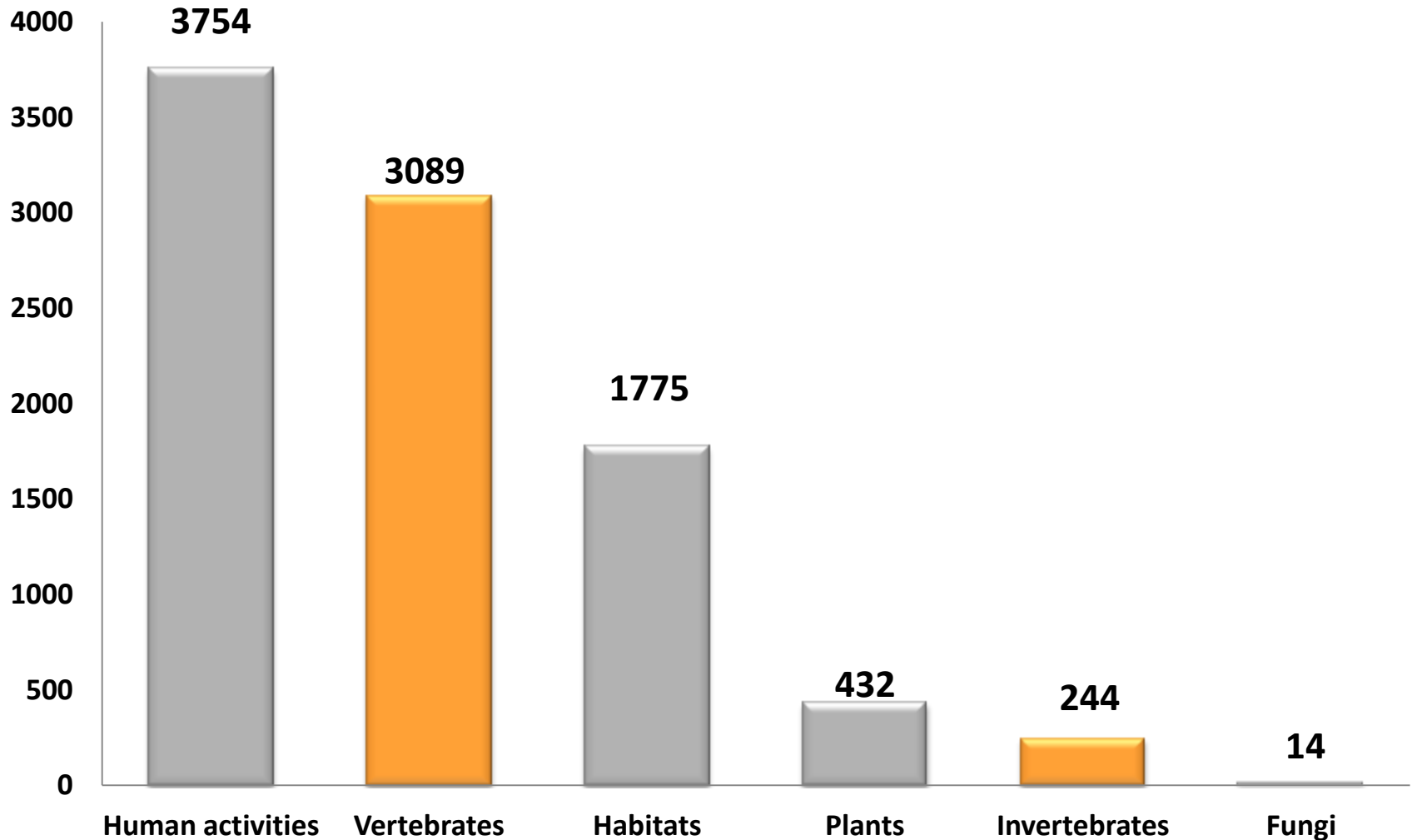
28
categories

Until the first of June 2017

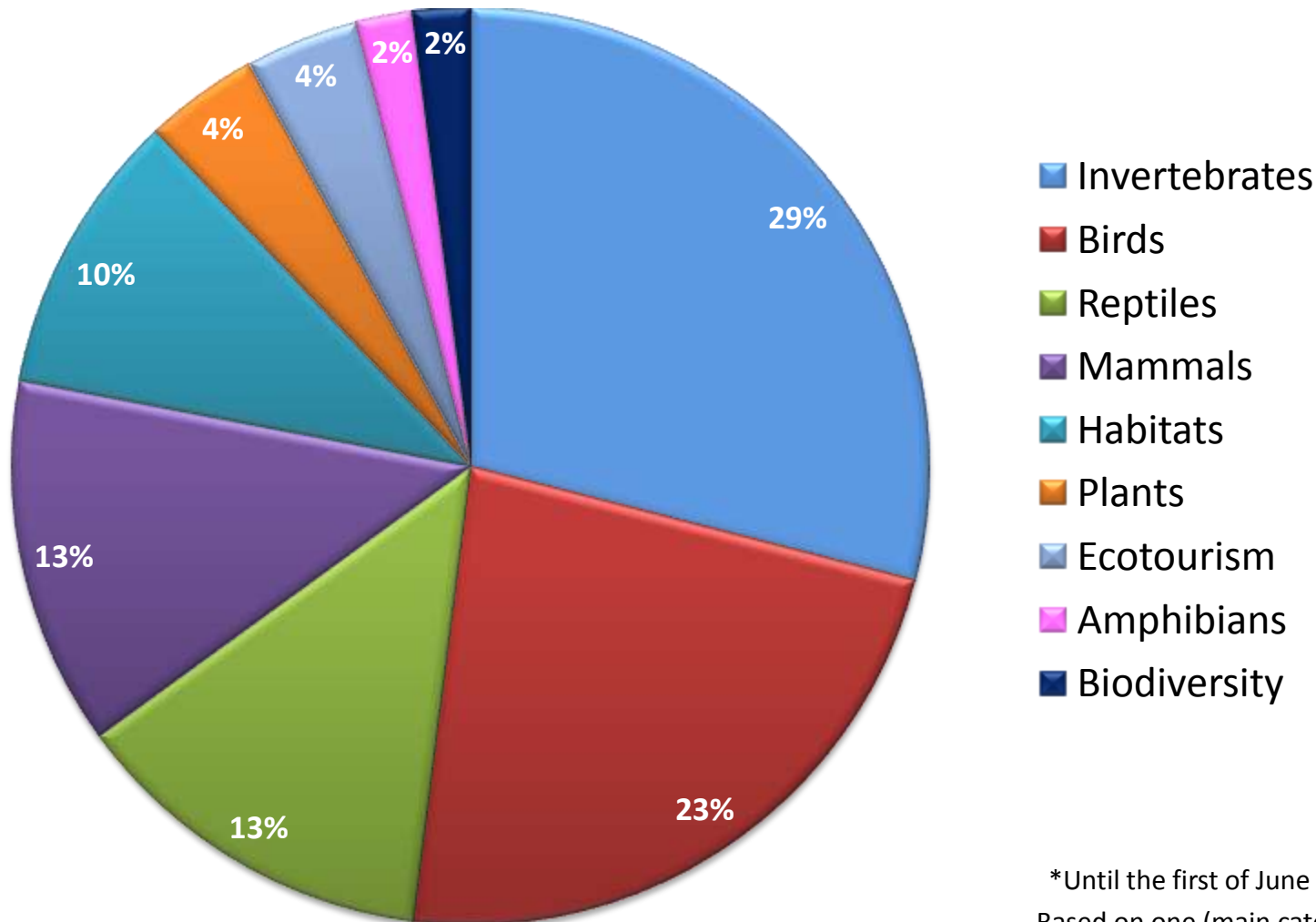
Categories - simplified



Categories - simplified



Projects in Serbia



*Until the first of June 2017
Based on one (main category)

Đerdap National Park

Established: **1974.**

Area: **636.1 km²**

Altitudinal range: **50 – 803 m**

Length: **100 km**

Width: **2 – 8 km**



7.2 %
of Serbia



Derdap National Park



Flora and fauna of Derdap

43

Strictly
protected species

124

Protected species

1013

Plants
(IPA)



13

Relicts

14

Balkan
endemics

57

Forest and shrub
communities

200

Birds
(IBA)



60

Fishes



Insects

50

Mammals



14

Reptiles



13

Amphibians



100

Butterflies
(PBA)



300+

Moths



About the project

- Rufford Small Grant (first level)
- Categories: - Invertebrates
- Biodiversity
- 12 months (2017-2018)
- Carabidae on Rufford?

2

Nikola Vesović

Ground Beetles (Coleoptera: Carabidae) of the Đerdap National Park (Northeastern Serbia): Preliminary Diversity Assessment and Conservation

Nature conservation is essential everywhere on the planet and is one of the burning issues in modern biology. Ground beetles are very important insects in terms of ecology and the environment's economy. The Đerdap National Park is the largest and one of the most valuable natural heritage areas in Serbia. Despite this fact, no systematic integrative investigation of its ground beetles has ever been carried out. The park's plants and vertebrates are well-documented, but knowledge about its insects is scanty (they have been the subject of only two recent studies, on longhorn beetles and on butterflies). The biota known to inhabit the park includes a number of endemic and relict forms and even certain sub-Mediterranean and Mediterranean plant species. This gives us a right to expect there an equally rich and interesting entomofauna worth protecting. The Balkan Peninsula is above all interesting as one of Europe's main biodiversity hotspots – a relictual area with a considerable percentage of endemic taxa. For this reason, there is a great need to explore the Balkan fauna of carabids and protect all rare species. We will assess threatening factors in the National Park and their effects on carabid assemblages.

The objectives of the work are as follows:

- to create a check-list of ground beetle taxa inhabiting the Đerdap National Park;
- to obtain additional data on the biology and ecology (abundance, sex structure, intraspecific variability, habitats, seasonal activities, possible abnormalities) of the park's carabids;
- to remove some taxa in the Serbian entomofauna from the "data deficient" (DD) category and propose a new list of candidate taxa potentially worthy of protection from among the country's epigeal, eidegean and troglomorphic carabids;
- to examine possible habitat-disrupting circumstances in the national park and propose ways to overcome them in order to protect potentially endangered ground beetle populations;
- to stimulate the scientific enthusiasm of biologists for nature conservation and emphasise the urgent need for it to a wider audience by organising lectures and giving promotional material to citizens;
- to present our results and then prepare them to be published.

For further information contact:

Email nikola.vesovic@bio.bg.ac.rs

Town/Region:	Đerdap National Park
Country:	Serbia
Continent:	Europe
Categories:	Biodiversity, Invertebrates
Date:	10 Apr 2017



Carabus ulrichi (Germar, 1824)



Molops piceus (Panzer, 1793)

Other Projects in: [Biodiversity](#) [Europe](#) [Invertebrates](#)

Contact:

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For more information visit:

http://www.rufford.org/projects/nikola_vesovic

Project activities

✓ Faunistic-ecological study

Check list, sex composition, seasonal activity, habitat preference

✓ Conservation

Taxa of interest, threatening factors, conservational measures

✓ Education

Increasing awareness of the need to protect natural habitats and these insects

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Localities

Pitfall traps:

I - Golo brdo

II - Mt. Miroč

III - Poreč Bay

IV - Mt. Liškovac

V - Boljetinska Reka Canyon

VI - Golubac



Localities

Manual collecting:

I - Donji Milanovac

II - Lepenski Vir

III - Dobra

IV - Golubinje

V - Ploče

VI - Veliki Štrbac



Localities

Speleological objects:

I - Gradašnica Cave

II - Buronov ponor Pit

III - Ibrin ponor Pit

Troglophiles

Troglobites



Fieldwork

Expeditions:

- 8 April ✓
- 25 April ✓
- 18 May ✓
- **7 June**
- **July (2)**
- **August (2)**
- **September**



Locating collecting site



Mt. Liškovac



Village of Tekija



Pitfall trap in beech forest

Ground beetles - diversity

April – May

50
species



Harpalus dimidiatus



Carabus ullrichii arrogans



Carabus coriaceus cerisyi



Cychrus semigranosus balcanicus



Anchomenus dorsalis



Leistus spinibarbis

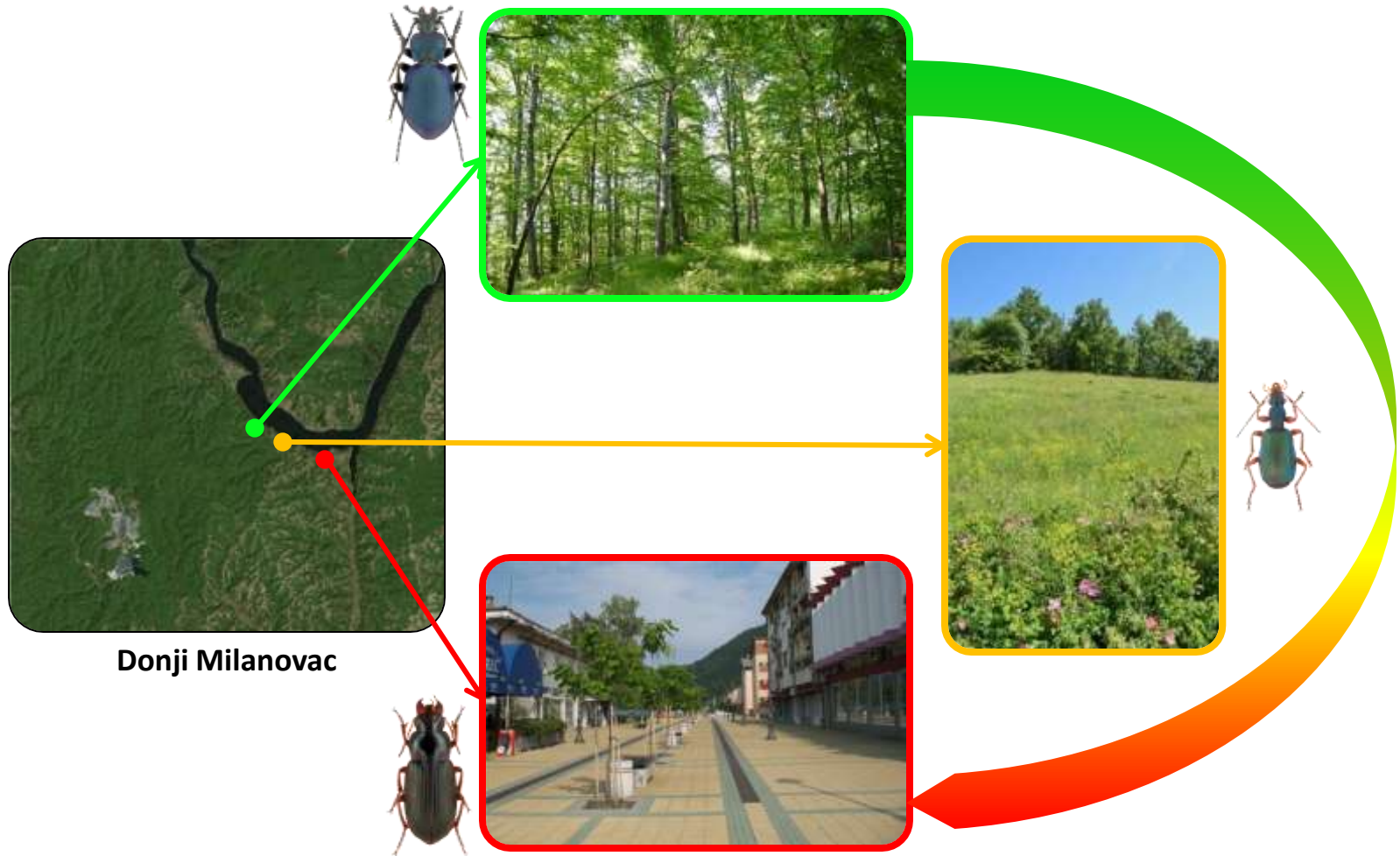


Cicindela campestris campestris

Serbia

615
species

Anthropogenic factor



Donji Milanovac

Conservation

Habitat protection



Education



Carabus intricatus



Conservation

Education of the population ↔ Habitat protection



- ↓ Forest fires
- ↓ Deforestation
- ↓ Illegal constructions
- ↓ Agriculture
- ↓ Traffic routes
- ↓ Municipal waste

Plans

- Presenting results on **Symposium of entomologists of Serbia** in September 2017
- Involvement of **students volunteers** in fieldwork and laboratory activities
- Preparing **scientific publication** during 2018
- Encouragement of **scientific enthusiasm among young biologists**
- Application for **2nd Rufford Small Grant**
- Long-term studies in Đerdap National Park – **monograph** on park's ground beetles

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Thank you for attention

