

# Project SABRINA: Bicycle Route Assessment for Cyclists' Safety across the Danube region's Euro-Velo routes

**7<sup>th</sup> IRTAD Conference, 27-28 September 2022, Lyon**  
**George Ursachi, ATA, Romania**

# Agenda

## ➤ Short presentation of SABRINA

- ✓ *Goal and objectives*

- ✓ *Methodological approach*

## ➤ Results (provisional)

## ➤ Conclusions

## ➤ Q&A

## ➤ Contact

# SABRINA – Safer Bicycle Routes in Danube Area



## Project duration:

1 July 2020–31 December 2022



**Overall budget:** 2,086,019.00 EUR

EBRD contribution: 1,701,992.40 EUR

ENI contribution: 71,123.75 EUR



Project is being implemented in the framework of the Danube Transnational Programme (Interreg Danube).

# Project Partnership

Role	Name	Acronym	Country
LP	The European Institute of Road Assessment - EuroRAP	EIRA - EuroRAP	SI, SLOVENIJA
PP	University of Zagreb, Faculty of Transport and Traffic Sciences	FPZ	HR, HRVATSKA
PP	Austrian Road Safety Board	KfV	AT, ÖSTERREICH
PP	West Pannon Regional and Economic Development Public Nonprofit Ltd.	WPRED	HU, MAGYARORSZÁG
PP	Partnership for Urban Mobility	PUM	CZ, ČESKÁ REPUBLIKA
PP	Green Revolution Association	GRA	RO, ROMÂNIA
PP	Municipality Ilirska Bistrica	OIB	SI, SLOVENIJA
PP	AGILE TRANSPORT ANALYSIS S.R.L	ATA	RO, ROMÂNIA
PP	Automobile Club of Moldova	ACM	MD, MOLDOVA
PP	Club "Sustainable Development of Civil Society"	CSDCS	BG, БЪЛГАРИЯ (BULGARIA)
PP	Ekopolis Foundation	Ekopolis	SK, SLOVENSKO
AP	Ministry of the sea, transport and infrastructure		HR, HRVATSKA
AP	Minsitry of Regional Development CZ		CZ, ČESKÁ REPUBLIKA
AP	Ministry of Transport		CZ, ČESKÁ REPUBLIKA
AP	Ministry of Infrastructure of the Republic of Slovenia		SI, SLOVENIJA



# Project goal and objectives

## GOAL:

*To help decision-makers to plan, design, and implement safe and sustainable solutions for improved cycling infrastructure in the region.*

## OBJECTIVES:

- **Increase awareness** on bicycle infrastructure safety and knowledge sharing
- **Increase knowledge** of PP and relevant stakeholders to identify and improve safety risks on bicycle infrastructure
- **Enhance transnational cooperation** in increasing safety on Danube region bicycle safety, that will enable informed decision on building new routes (missing links)



# Project Activities

## Work Packages (WP)

**M:** Management

**WP T1:** *Inspection and Safety Ratings of the Danube Bicycle Routes*

**WP T2:** Best Practice Analysis

**WP T3:** Strategic Decision-Making Toolkit

**WP T4:** Pilots and Trainings

**WP C:** Communication

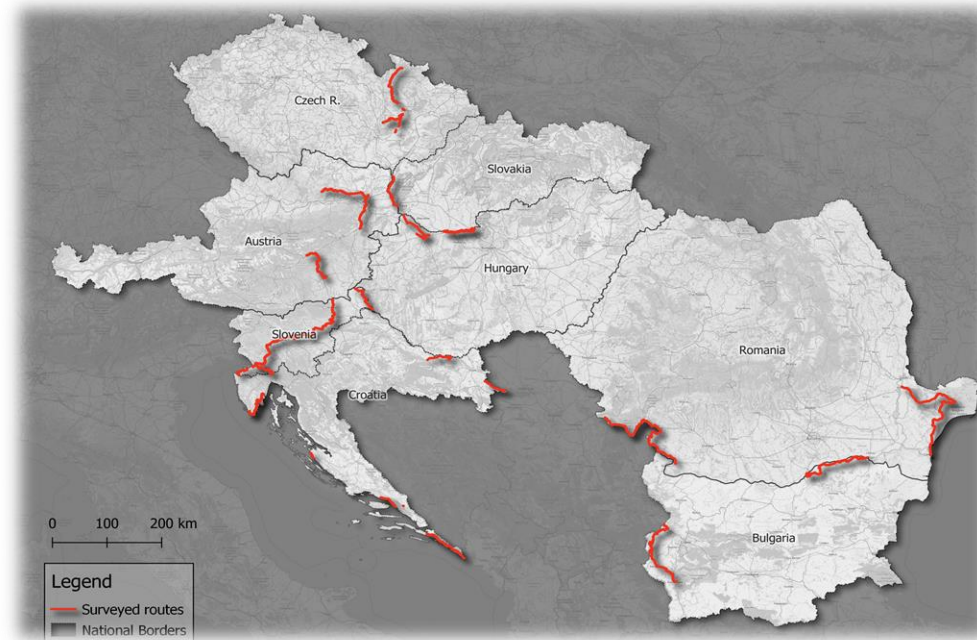
**HOW?**





# Inspection and Safety Ratings of the Danube Bicycle Routes

**Objective:** To Star Rate bicycle routes for safety. The focus is on pre-identified EuroVelo (EV) bicycle routes (6, 8, 9, 11, 13, 14) in the Danube area.



# Inspection and Safety Ratings of the Danube Bicycle Routes

Road Assessment  
Programme (RAP) protocols  
(iRAP and CycleRAP)

Bicycle Route  
inspections

European Certification  
Standard (ECS); European  
Cyclists' Federation (ECF)

**Coding:** 52 road design features known to influence crash likelihood and severity of injuries of road users and cyclists in the mixed traffic environment.

The **results**, including the **iRAP Star Rating** of the routes, show how safe the routes are for road users and cycling and what could be done to improve the road infrastructure to increase road safety for cyclists.





# ***Best Practice Analysis***

**Objective:** To collect and collate best practices relevant to cycling infrastructure and safety improvement measures.



**Collected data analysis**



**Consultation with stakeholders**



**Desk research**

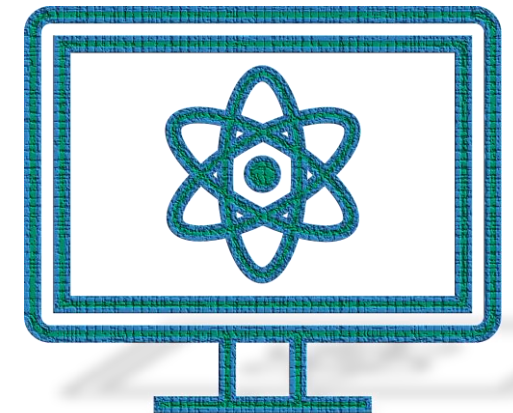


# ***Strategic Decision-Making Toolkit***



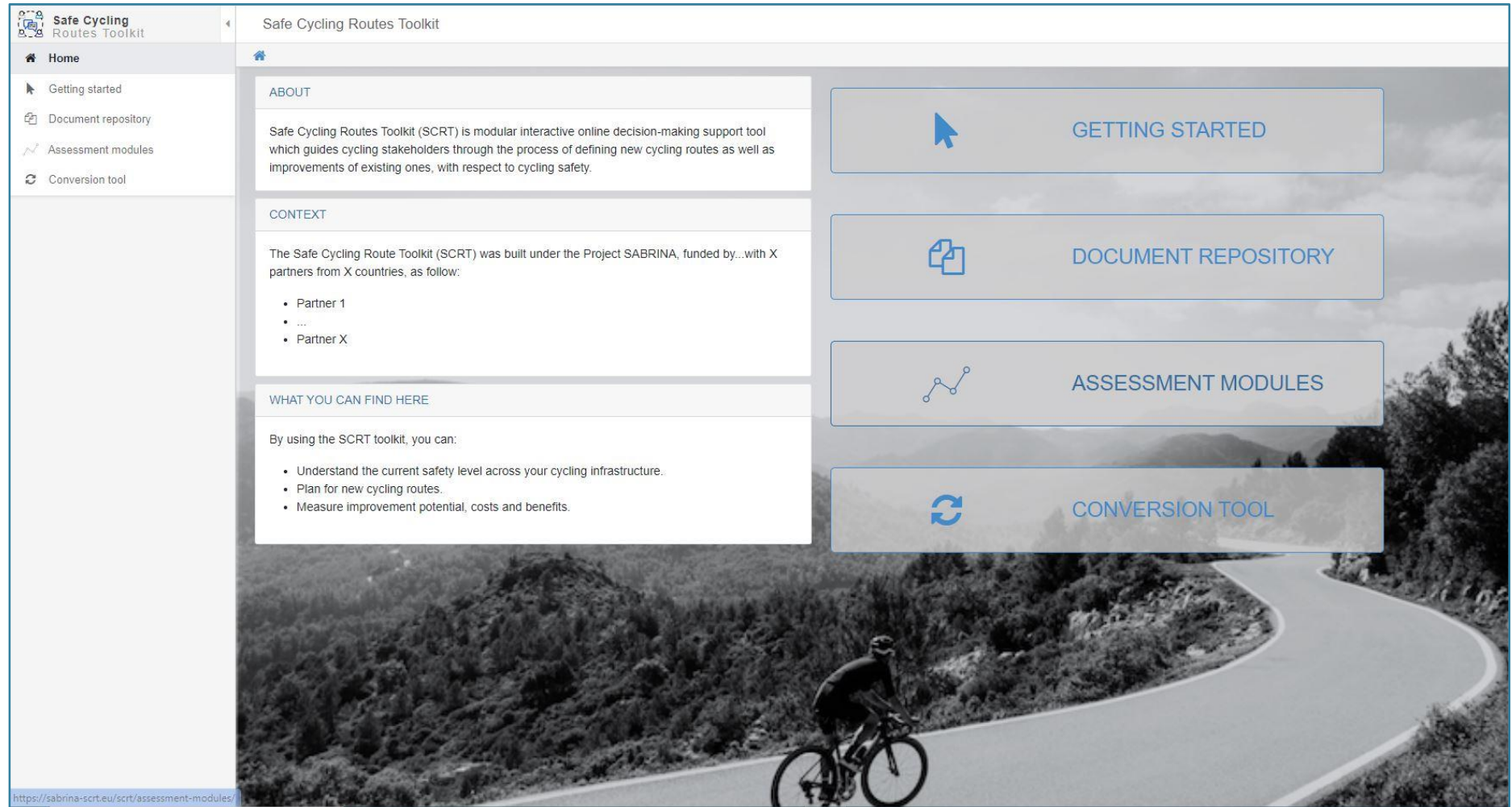
**Objective:** To provide users (cycling infrastructure and road safety authorities and stakeholders) with unified set of procedures, know-how and recommendations based on Star Rating (WPT1) and best practice case studies (WPT2) for improving and developing cycling routes with a focus on road safety and safe travels.

**Main Output:** **Safe Cycling Routes Toolkit** = interactive online tool/web portal



# Strategic Decision-Making Toolkit

<https://sabrina-scrt.eu/scrt/>



# ***Pilots and Trainings***

**Objective:** Support decision-making on route planning, assessment and upgrade procedures, through learning activities that empower users to take advantage of cycling safety and information collected in WP T1 and WP T2 and structured in WP T3.



## **Trainings**



ECF training: European Certification Standard methodology; Sept 2021

iRAP training: RAP protocols (iRAP and CycleRAP); Sept 2021

## **Pilots**



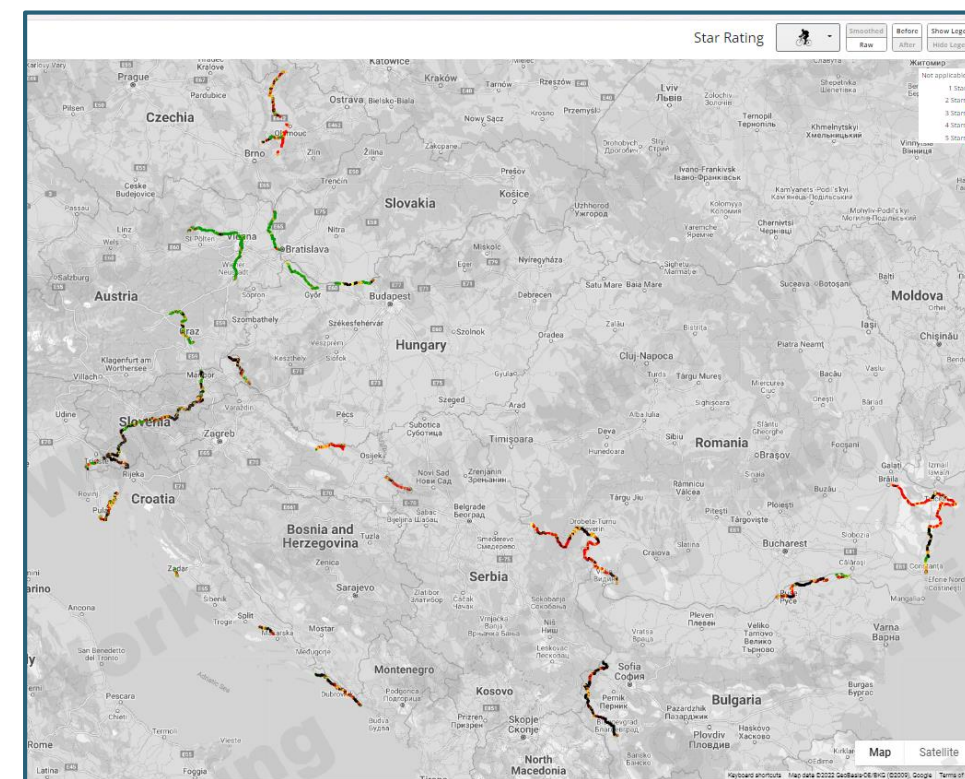
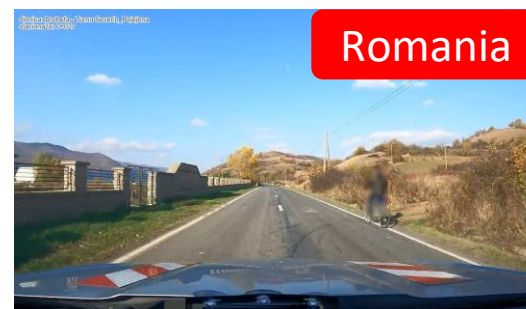
Pilot actions focused on practical implementation of main variations of Safe Cycling Routes Toolkit usability.





# Results (provisional)

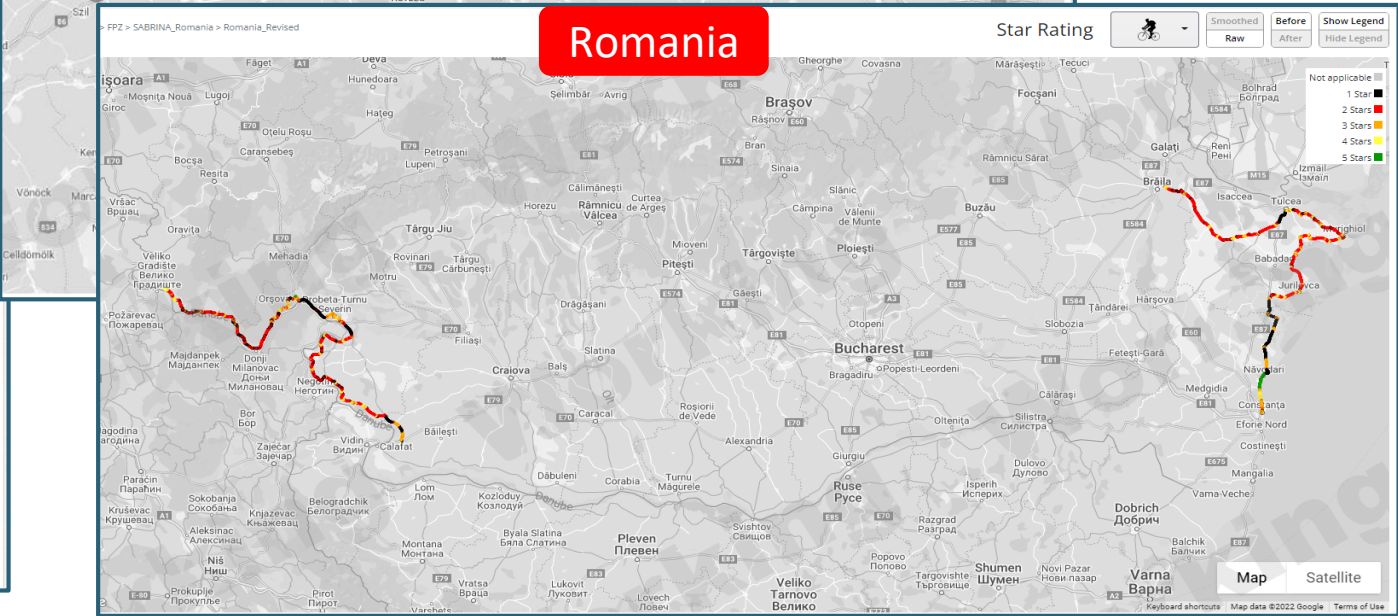
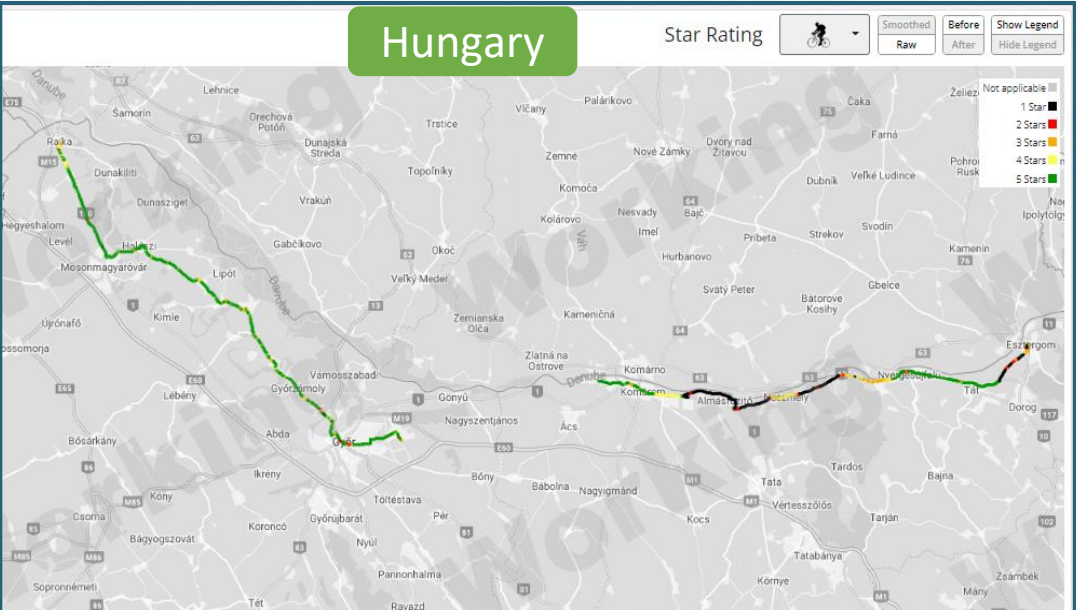
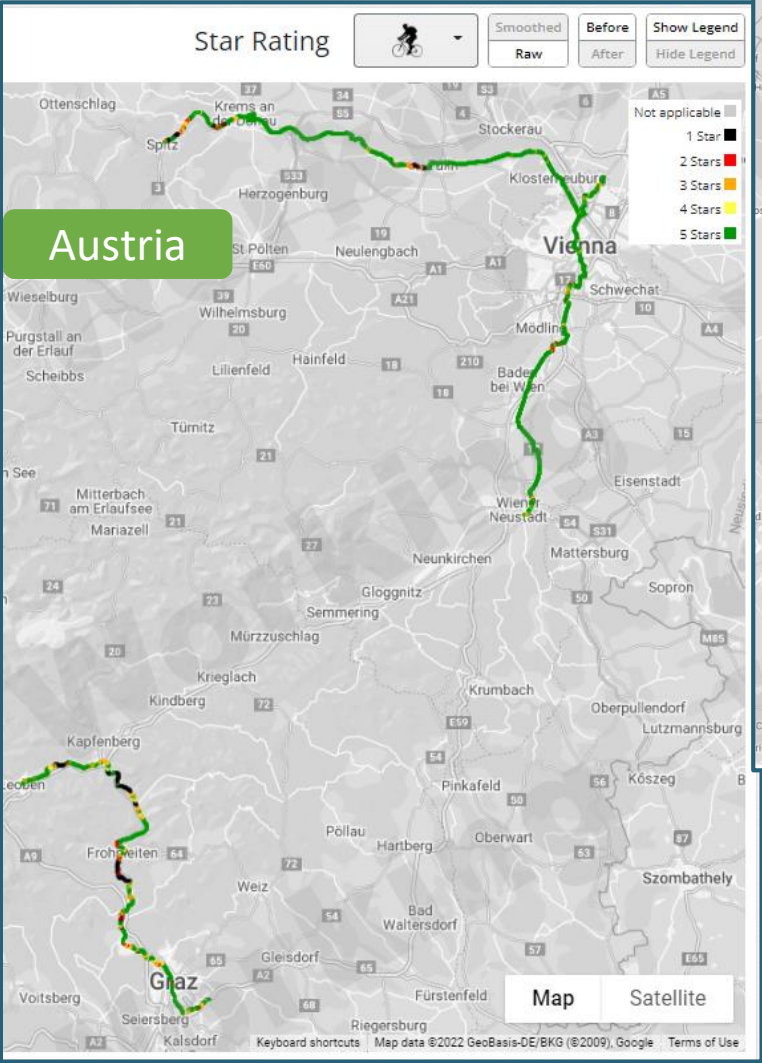
- approx. 3500 km of EV surveyed
- 8 countries



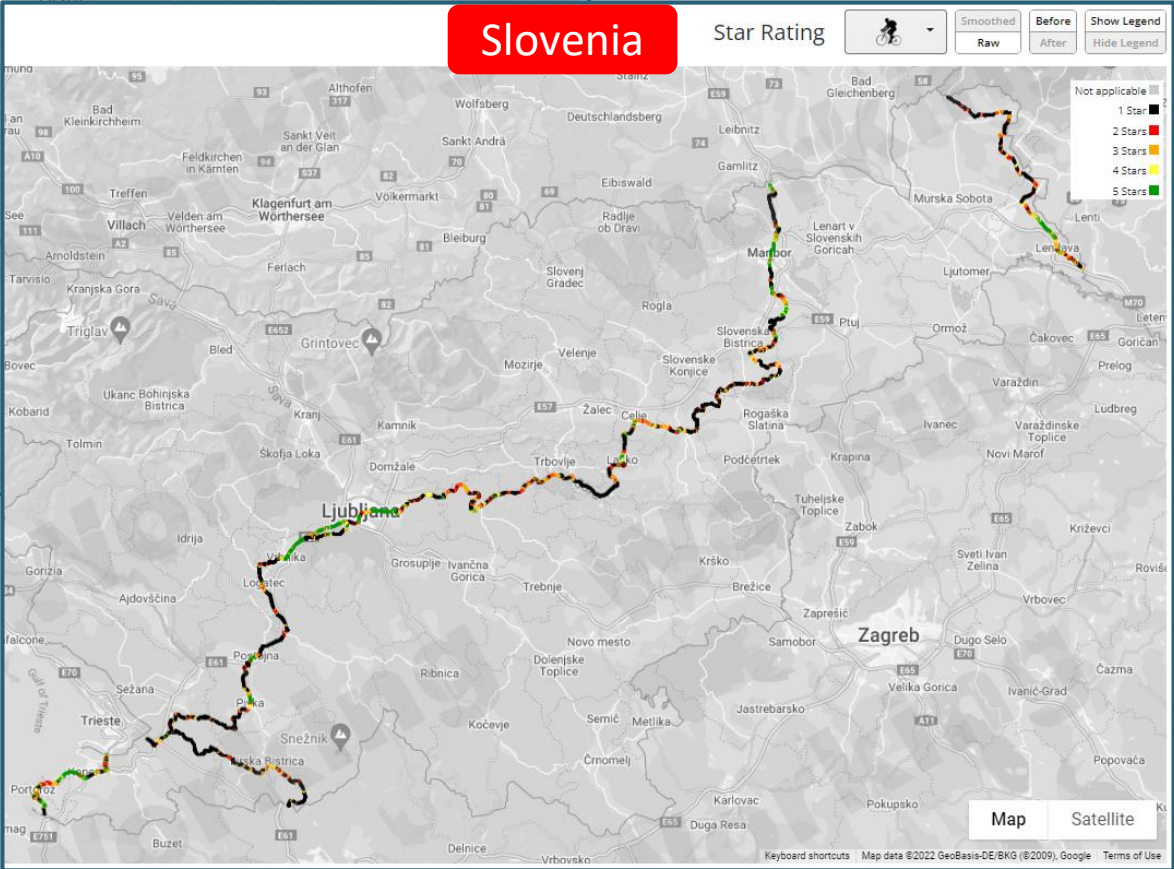
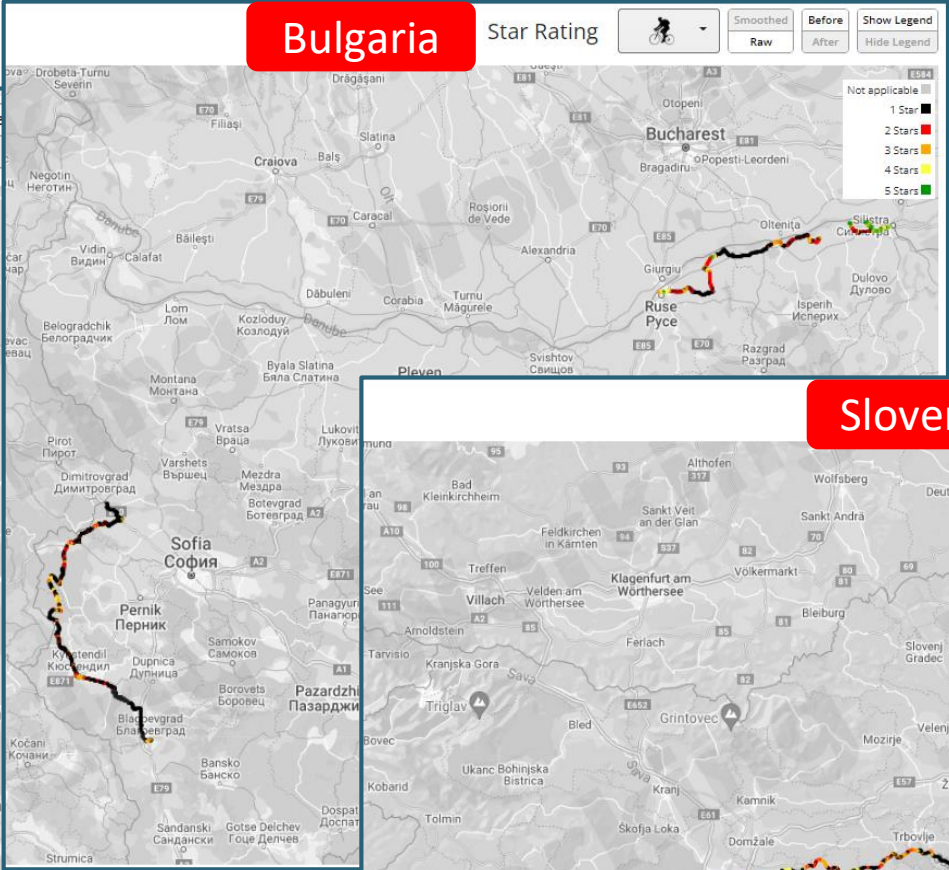
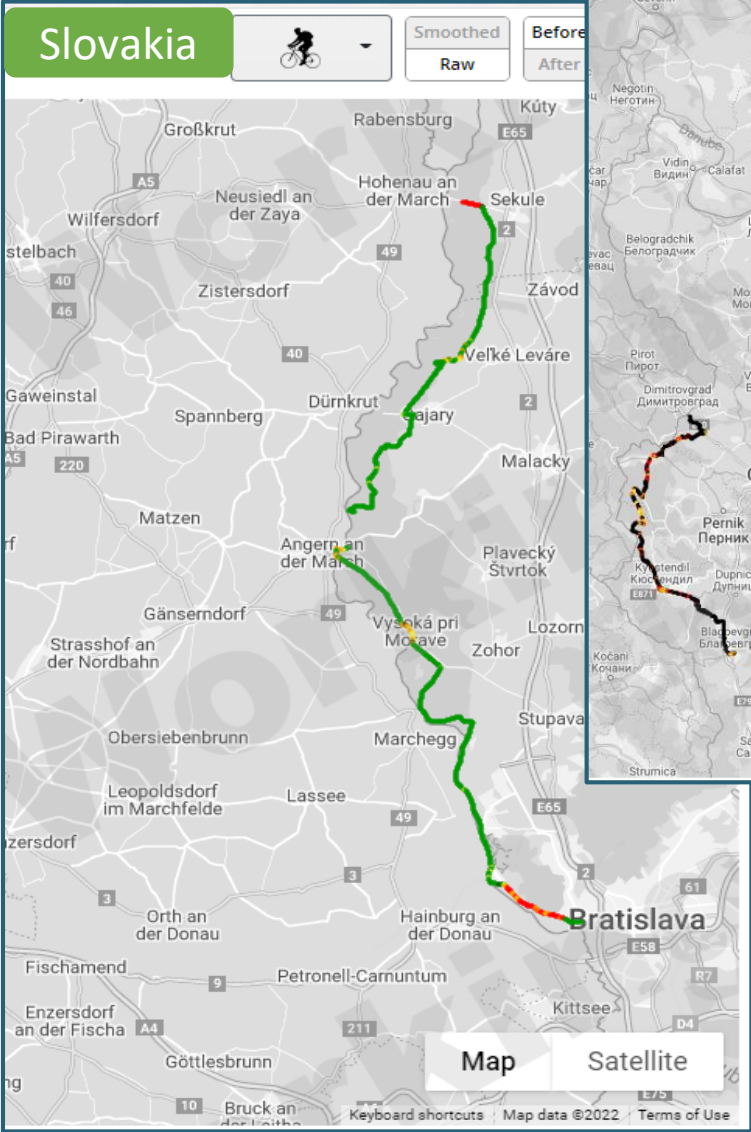
5 Star routes	14.42 %
4 Star routes	4.47 %
3 Star routes	15.59 %
2 Star routes	22.40 %
1 Star routes	43.11 %
3 Stars or better routes	34.48 %



# Results

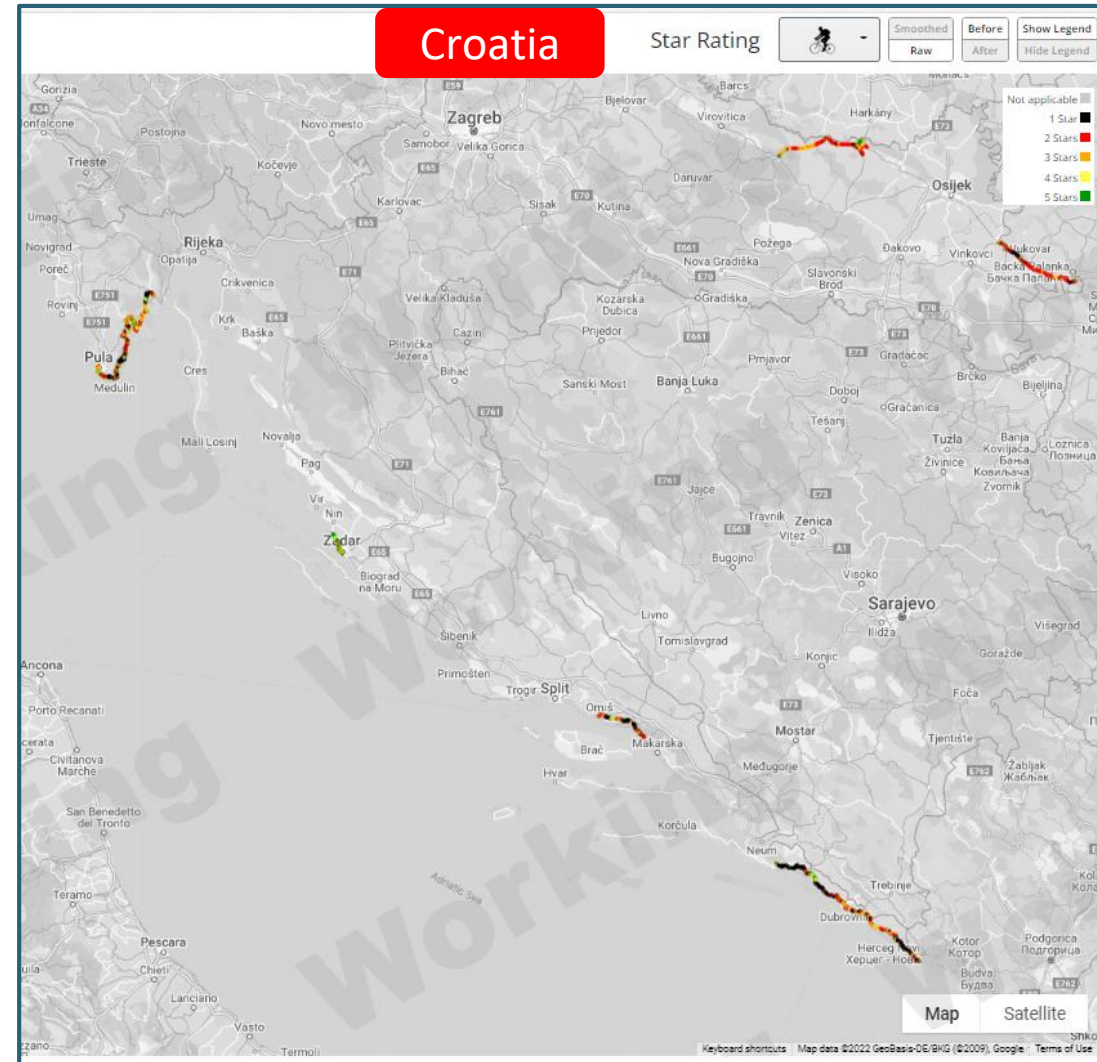
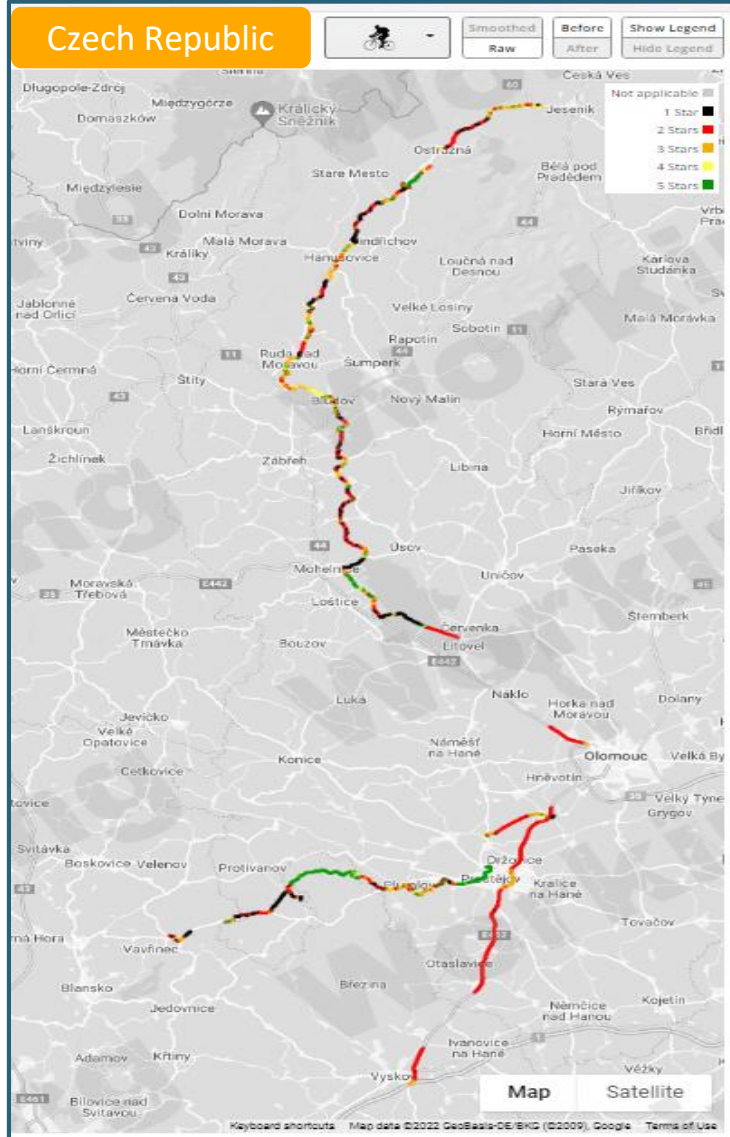


# Results





# Results



# Conclusions

- Cycling infrastructure conditions across countries varies greatly. Sometimes it varies a lot even within countries
- Euro-Velo routes are not cyclable in some places
- A very high proportion of the EV routes are on mixed traffic (with motorised traffic)
- Investment in cycling infrastructure needed to ensure first safety, then attractiveness

## Challenges

- Low and unprecise crash data availability
- Very low (and disperse) cycling data availability
- Huge cycling infrastructure differences across inspected roads

## Solutions

- Targeted investment in cycling infrastructure
- Prioritisation of high risk locations
- “More research is needed!”. Actually more and better data is necessary.

# Questions?



# Contact

## SABRINA – Safer Bicycle Routes in Danube Area

[www.interreg-danube.eu/SABRINA](http://www.interreg-danube.eu/SABRINA)



@SABRINAproject

*#Safetyon2wheels*



@SABRINA\_project

*SABRINA: No fears about safety on two wheels.*

# Thank You!