

# **SABRINA – Safer Bicycle Routes in the Danube Area**

**Austrian Cycling Summit, 05.04.2022**

**Maria Fleischer MSc., Austrian Road Safety Board (KFV)**



# STATSTIC CYCLIST FATALITIES

## Cyclist Fatalities 2019

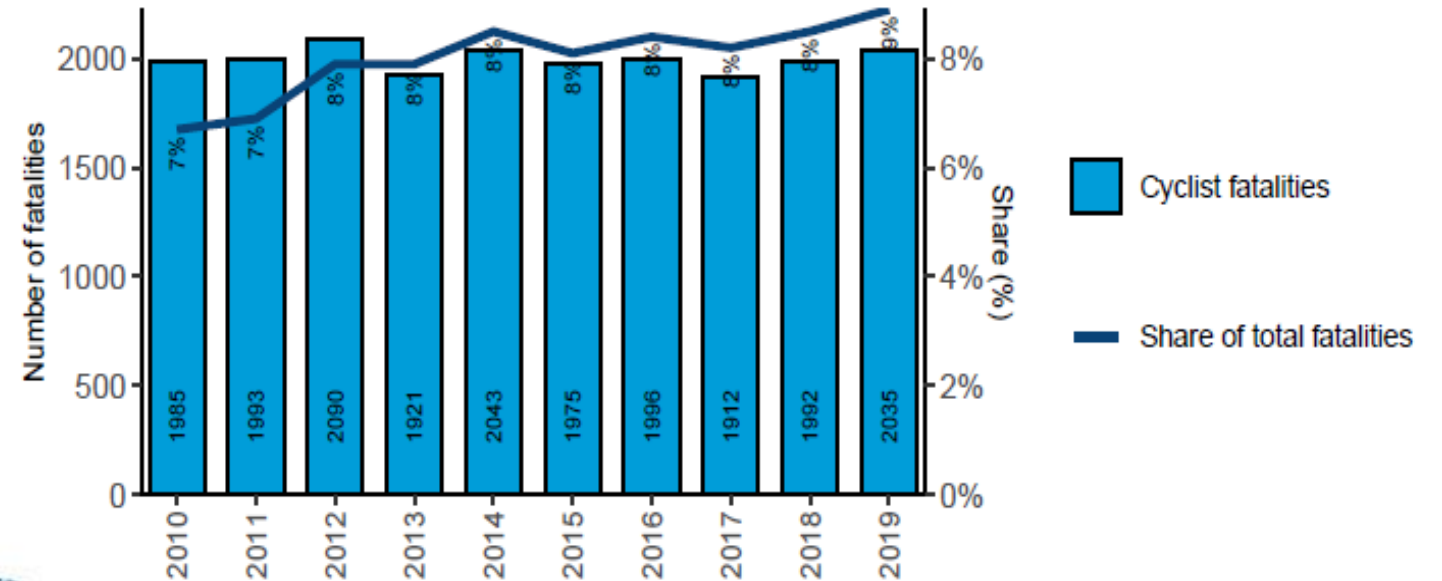


- 2,035 fatalities
- 9% of all road fatalities
- No decrease since 2010

**Cyclist Injuries 2019:** 166,670



Figure 3. Annual number of cyclist fatalities, and their share in the total number of fatalities in the EU27 (2010-2019).  
Source: CARE



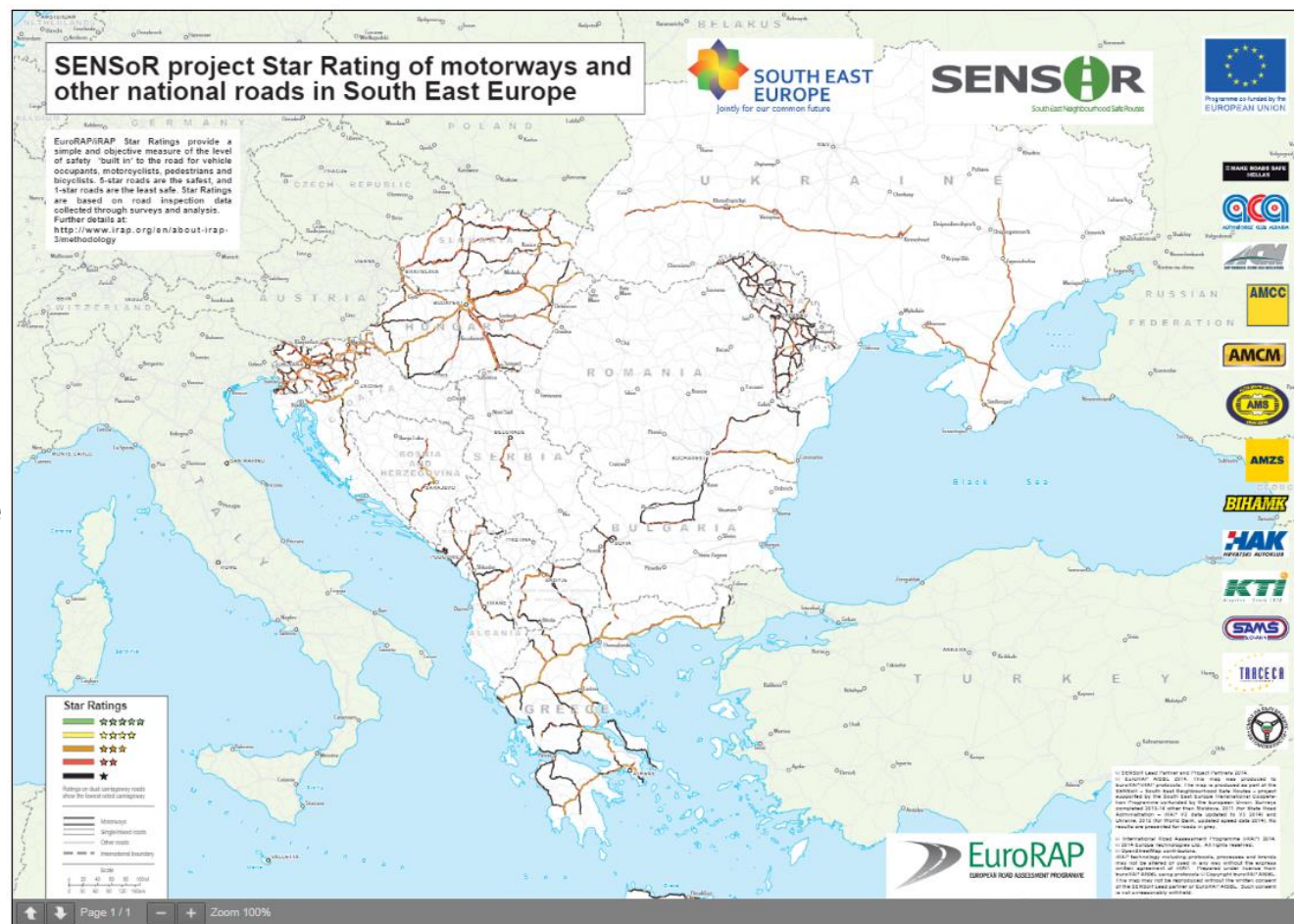
European Road Safety Observatory: Facts and Figures – Cyclists - 2021

# Initial situation

**Cycling infrastructure in the Danube Region is largely at an early stage of development, especially outside the major urban areas.**

In 2014, the **results of the EU project SENSOR (South East Neighbourhood Safe Routes)** showed that about **80% of the roads in 14 SEE countries are very unsafe for cyclists.**

The **growing importance of cycling and the aim to prevent serious injuries and fatal accidents** among cyclists have resulted in the **need to improve the infrastructure and make it safer, more forgiving, sustainable and comfortable.**



# SABRINA – Safer Bicycle Routes in the Danube Area



## Project duration:

1 July 2020–31 December 2022

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

ERDF contribution: 1,701,992.40 EUR

ENI contribution: 71,123.75 EUR

**Project Partners:** 11

**Danube Area Countries:** 9



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



# Project Goal

*Help decision-makers to plan, design and implement safe & sustainable solutions for improved cycling infrastructure in the Danube Region.*



# Project Specific Objectives

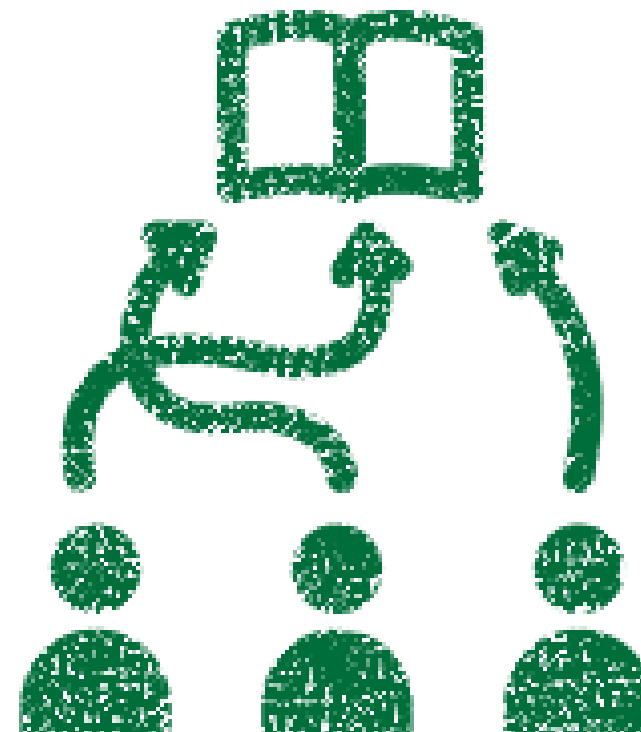
## WHAT?

- **Raise awareness** on bicycle infrastructure safety and knowledge exchange
- **Increase knowledge** of Project Partners and relevant stakeholders to identify and improve safety risks on bicycle infrastructure
- **Sharing best practices** to improve the safety of cycling infrastructure
- **Enhance transnational cooperation** in increasing safety in the Danube Region to enable informed decisions on the construction of new cycle routes (missing links)
- **Providing the Safer Cycling Routes Toolkit** - an online tool that provides decision-makers with a step-by-step guide to assessing and developing safer cycling routes.



# Project Activities

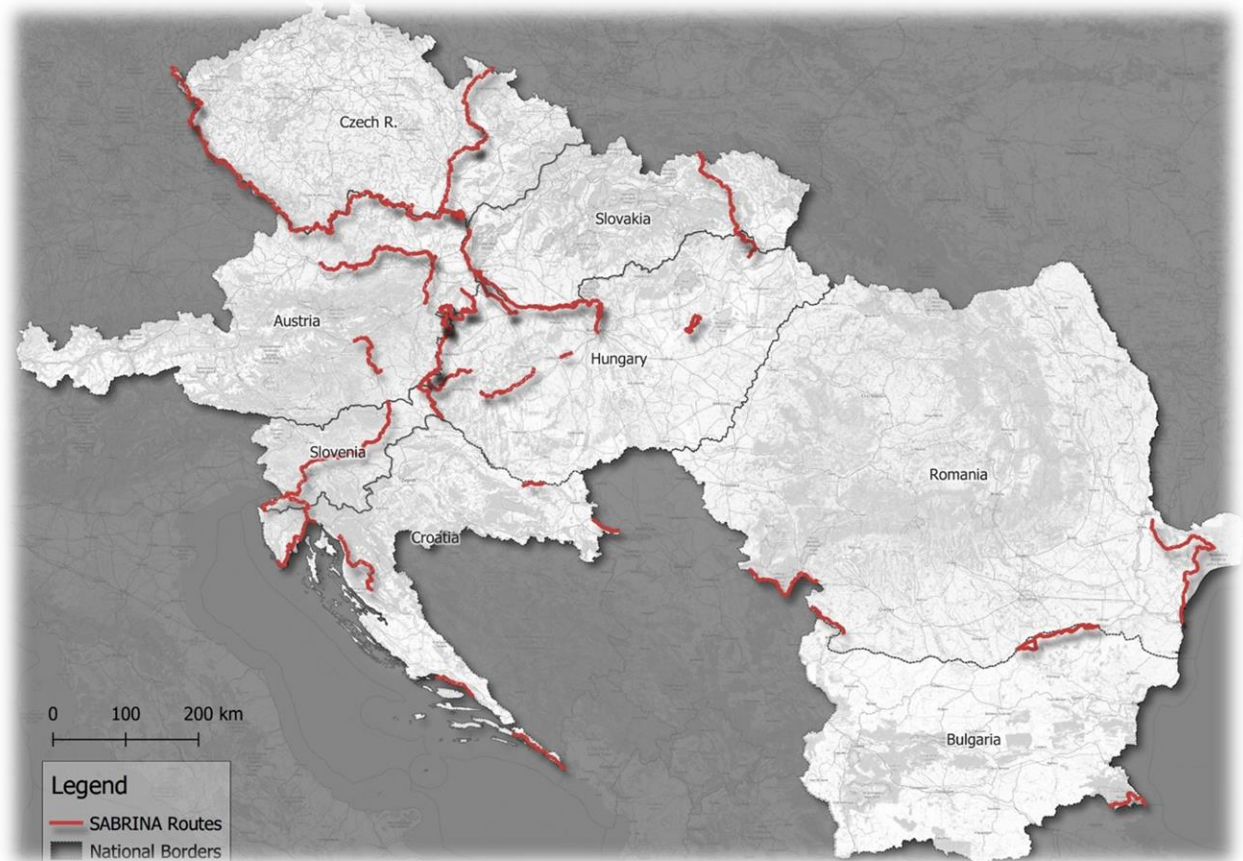
- **Inspection and Safety Ratings of the Danube Bicycle Routes**
- **Best Practice Analysis**
- **Strategic Decision-Making Toolkit**
- **Pilots and Trainings**



# Inspection and Safety Ratings of the Danube Bicycle Routes

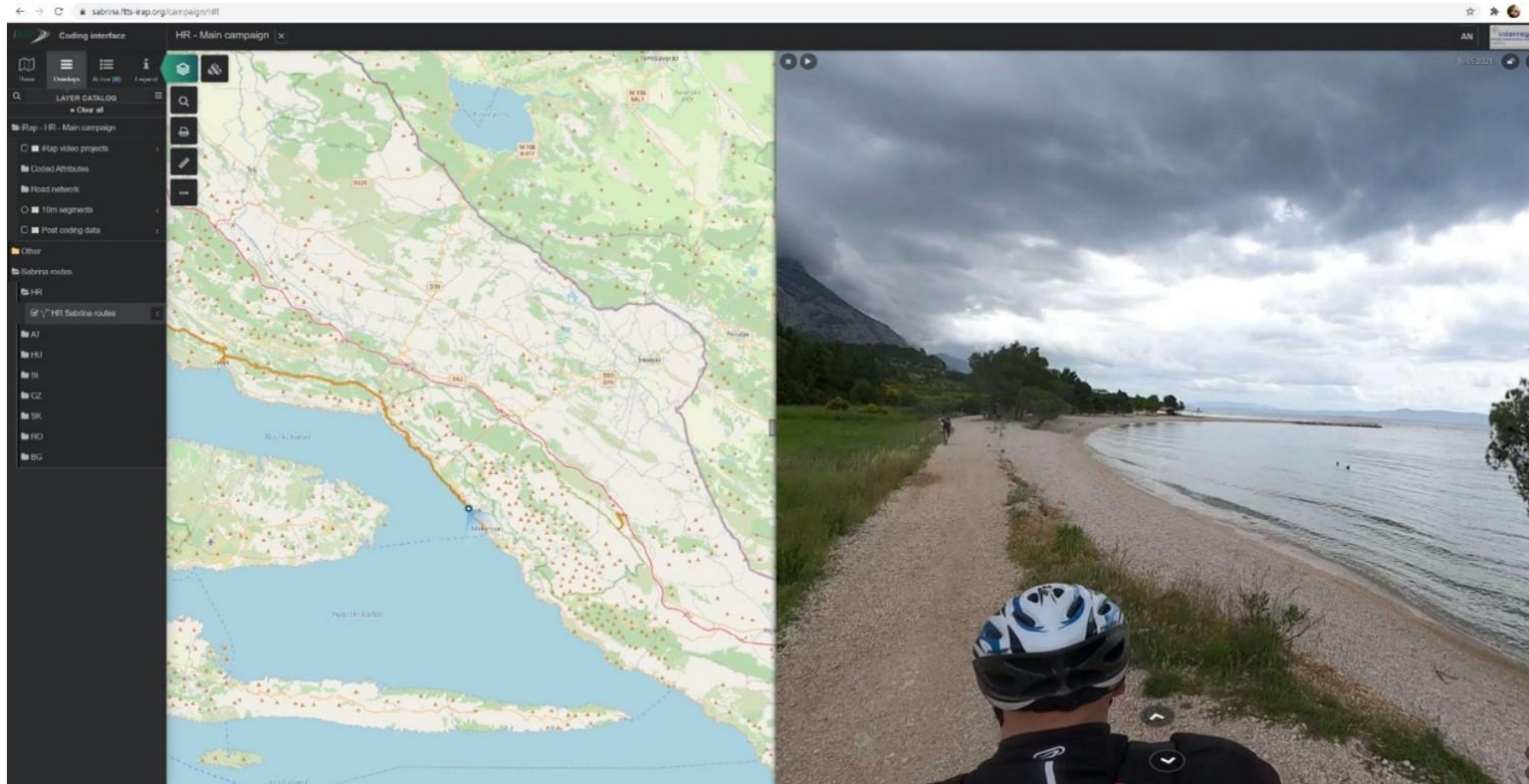
**Objective:** To Star Rate bicycle routes for safety. The focus is on pre-identified EuroVelo (EV) bicycle routes (6, 8, 9, 13, 14) in the Danube area.

- SABRINA project WebGIS system was created + routes in 8 Project Partner countries defined (Moldova doesn't have any EV routes yet)
- GPX route files provided + routes drivability defined





# Inspection and Safety Ratings of the Danube Bicycle Routes



SABRINA  
WebGIS interface  
with 360°  
panorama images  
on EuroVelo 8  
route in Croatia.

# Bicycle route inspections: AUSTRIA



# Bicycle route inspections:

**Croatia:**   
EuroVelo 8 & 13  
More than 400km

**Slovenia:**   
EuroVelo 8, 9 & 13  
More than 450km

**Austria:**   
EuroVelo 6, 9 & 14  
More than 260km

**Bulgaria:**   
EuroVelo 13  
More than 380km



**Romania:**   
EuroVelo 6 & 13  
More than 550km

**Czechia:**   
EuroVelo 9  
Around 100km

**Slovakia:**   
EuroVelo 6 & 13  
Around 100km

**Hungary:**   
EuroVelo 6  
Around 100km



# Inspection and Safety Ratings of the Danube Bicycle Routes

## Bicycle Route inspections

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

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

**Coding**

**Results:** Safety status quo and infrastructure improvements



# Best Practice Analysis

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



**Collected data analysis**



**Consultation with stakeholders**



**30 Fact Sheets**



**Best Practice Recommendations**

**DELIVERABLE D.T2.1.1**

Documented good and poor practices from cycling route infrastructure assessments

Deliverable	D.T2.1.1
Work package:	T2 Best practice analysis
Activity:	A.T2.1 Analysis of collected data from cycle route infrastructure assessments
Country:	Austria
Authors per project partner (if more than one per PP, provide them together):	Markus Fischer, Marlene Mellauer, Klaus Machata, Marietta Fischer (FPV) and contributors from all partners
Status (F – final, D – draft, RD – revised draft):	F
Version:	1.0
File name:	DT2.1.1 Documented good and poor practices.docx
Issue date:	15. 12. 2021

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www.interreg-danube.eu/SABRINA

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

**DELIVERABLE D.T2.3.3**

Status report on current problems and solutions in cycling infrastructure safety

Deliverable	D.T2.3.3
Work package:	T2 Best practice analysis
Activity:	A.T2.3 Stakeholder consultation
Authors per project partner (if more than one per PP, provide them together):	Klaus Machata, Marlene Mellauer (FPV), L. Hlaváček, Z. Vávrová, J. Čížková (COCOS), with inputs from subcontractor (Smart Key Consulting), Radosław Piasek (SR), Virginia Maribac (Automobile Club of Moldova, ACM), Andrii Rabe (CIB), Prof. Grigo Lăbuț, Marian Jakovljević, Sarga Leš, Mario Maršić, Andrej Marčičič (FPZ), Jan Roháč (EkoPols), Jasmina Marinko, Jilka Vrtová, Martin Simčo, Jan Machovský (PUM), Tashiro Road Development and Human Resources LLC & Zsombor ARADZSI (WPRED)
Status (F – final, D – draft, RD – revised draft):	F
Version:	1.0
File name:	20210320_SABRINA Deliverable.T2.3.3_V1.0.docx
Issue date:	29. 06. 2021

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**Output T2.1**

Best practice bicycle safety improvement fact sheets

Output	T2.1
Work package:	T2 Best practice analysis
Activity based on:	A.T2.1 Analysis of collected data from cycle route infrastructure assessments A.T2.2 Desk research on available knowledge on best practices in providing and assessing cycle route safety A.T2.3 Stakeholder consultation
Authors per project partner (if more than one per PP, provide them together):	Markus Fischer, Aggelos Soteropoulos, Klaus Machata, Maria Fischer (Austrian Road Safety Board (FPV)), Clavera Roz, Anja Šuštek (EIRA), Andrej Marunica, Sarga Leš, Leonid Ljubitina (FPZ)
Status (F – final, D – draft, RD – revised draft):	F
Version:	1.0
File name:	20220321_SABRINA Output T2.1_Fact Sheets.docx
Issue date:	22.03.2022

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**Output T2.2**

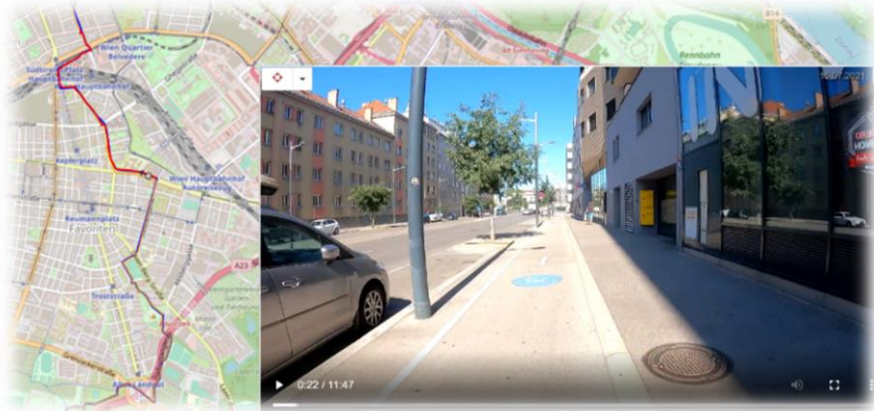
Recommendation for implementation of best practices

Output	T2.2
Work package:	T2 Best practice analysis
Activity based on:	A.T2.1 Analysis of collected data from cycle route infrastructure assessments A.T2.2 Desk research on available knowledge on best practices in providing and assessing cycle route safety A.T2.3 Stakeholder consultation
Authors per project partner (if more than one per PP, provide them together):	Markus Fischer, Maria Fischer, Marlene Mellauer, Klaus Machata, Aggelos Soteropoulos (Austrian Road Safety Board (FPV)) with contributions from all PPs
Status (F – final, D – draft, RD – revised draft):	F
Version:	1.0
File name:	20220321_SABRINA Output T2.2_Sloveny Report.docx
Issue date:	21.03.2022

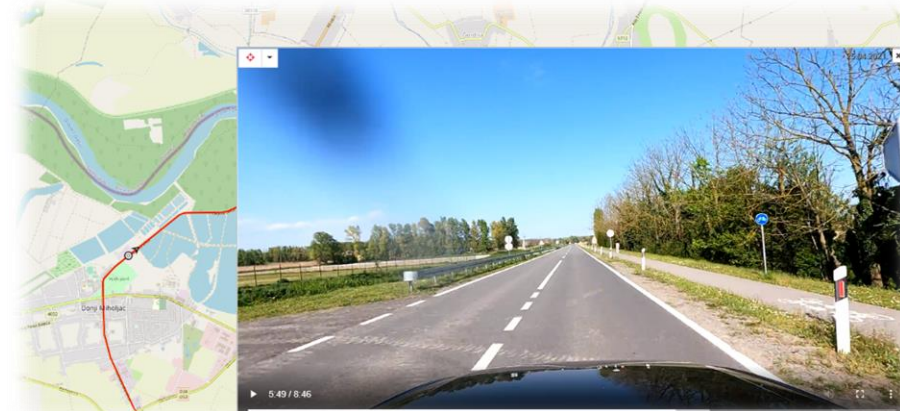
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# Best Practice Analysis



EuroVelo 9, Austria



EuroVelo 13, Croatia



EuroVelo 6, Hungary



EuroVelo 9, Czech Republic



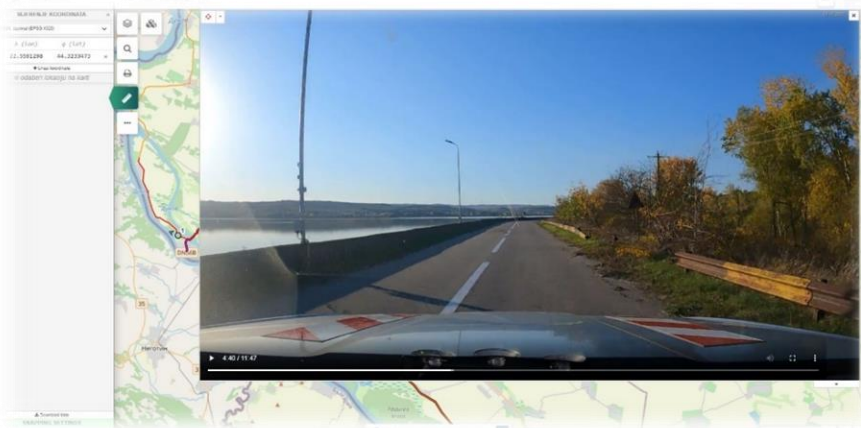
# Poor Practice Examples



EuroVelo 6, Austria



EuroVelo 8, Croatia



EuroVelo 6, Romania

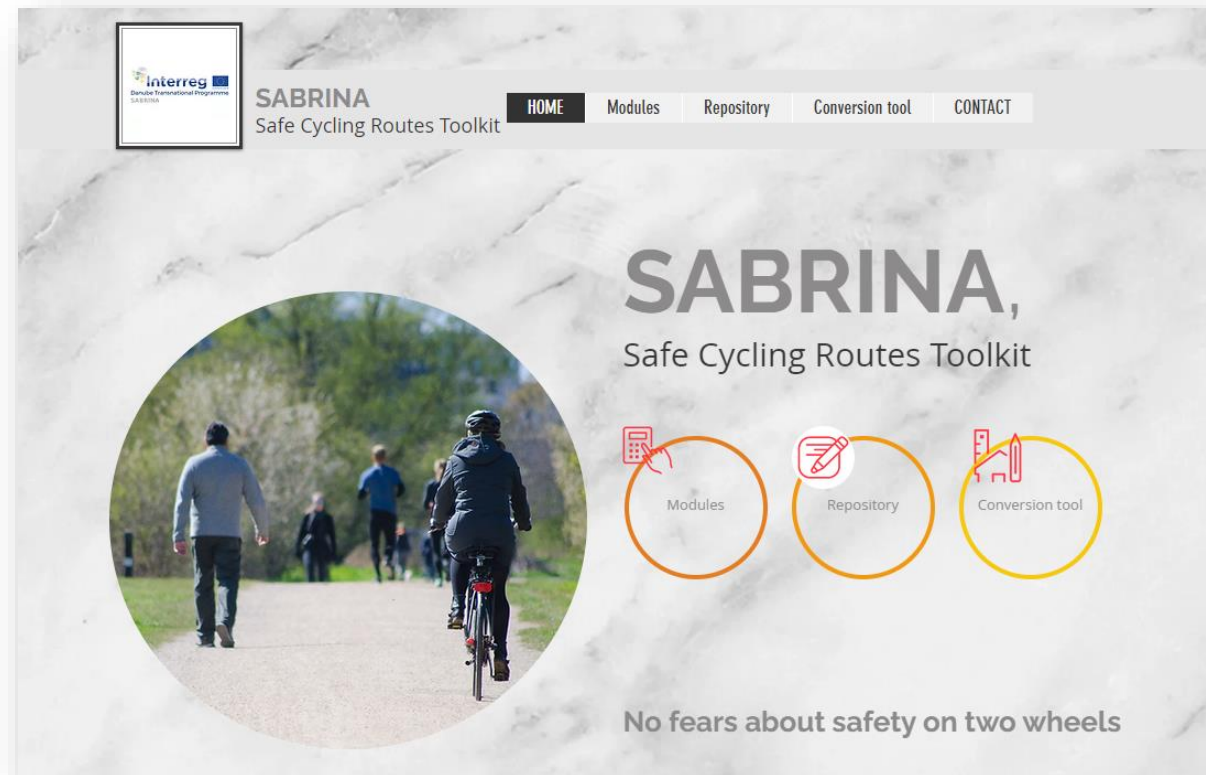


EuroVelo 13, Bulgaria

# Strategic Decision-Making Toolkit

**Objective:** To provide users with unified set of procedures, know-how and recommendations 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





# Pilots and Trainings

## Trainings



**ECF training:**  
European  
Certification  
Standard  
methodology

**iRAP training:**  
RAP protocols  
(iRAP and  
CycleRAP)

## Pilots



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



# Contacts

## SABRINA – Safer Bicycle Routes in Danube Area

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



@SABRINAproject



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#Safetyon2wheels



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

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