Interreg

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Danube Transnational Programme

RADAR

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O T.3.2. i Databases on Pilot Actions

TA6 RISM - SLOVENIA

RADAR – Risk Assessment on Danube Area Roads

https://www.interreg-danube.eu/radar

Internal Report Hierarchy Level			
Activity Number	5.3	Activity Title	Pilot Actions TA5 and TA6
Work Package Number	WP5 extension	Work Package Title	Strategy and Action Plans extension (RISM directive and Covid 19)
Authors (per company, if more than one company provide it together)	Klemen Filipič (Automobile and Motorcycle Association of Slovenia - AMZS)		
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Revision log

Version	Date	Reason	Name and Company
1.0	24.11.2021.	Draft Report on Pilot Action on TA6 Database in Slovenia	Klemen Filipič, AMZS
1.1	26.11.2021	Corrections, title change	Klemen Filipič, AMZS

Abbreviation list

AADT	Annual Average Daily Traffic
AMZS	Automobile and Motorcycle Association of Slovenia
iRAP	International Road Assessment Programme
PA	Pilot Action
PP	Project Partner
RADAR	Risk Assessment on Danube Area Roads
SR4S	Star Rating for Schools
TA	Thematic Area
VRU	Vulnerable Road User

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1. Introduction

The RADAR (*Risk Assessment on Danube Area Roads*) project implements learning and transnational cooperation activities at different levels to help the responsible road safety organizations in the Danube area identify risk on their road networks. The project also helps them reduce risk systematically, by improving infrastructure and road layout. RADAR addresses all road users but pays particular attention to vulnerable road users as well as to safety on major roads near schools. It also holistically approaches the issue of safety and tackles speed as a major risk on roads.

The fifth Work Package of the project aims to give the project partners practical experience in using techniques, information and countermeasures to reduce road casualties. With the help of Pilot Actions (PA), testing of best practice and methodologies become possible. In the extension period of the RADAR project, PP AMZS is a responsible project partner for the sixth thematic area (TA6) – RISM in Slovenia. The pilot action on TA6 consists of the preparation and implementation of a road infrastructure safety assessment using the iRAP Star Rating for Schools (SR4S) methodology and an expert assessment of the suitability of the use of this methodology in Slovenia.

The aim of the RADAR Pilot Action on TA6 is to show road authorities steps to be taken to enhance road safety for vulnerable road users in the vicinity of schools and beyond through a dedicated methodology with the ability to compare the results and upgrades between different locations. As the Road Infrastructure Safety Management (RISM) Directive 2019/1396 / EC foresees systematically taking vulnerable road users into account, the RADAR of Pilot Project on TA6 also aims to verify the possibility of using the SR4S methodology in this field in Slovenia.

The aim of this document is to present the databases created during the making of the Pilot action report and implementation ready road layout plans.

The assessment of road infrastructure was done on five site visits/inspections in five different towns/cities in Slovenia. In total, the assessment was done on 15 selected locations in the vicinity of five different schools. Assessment was conducted with the help of iRAP SR4S coding forms on which data, relevant to assessment of road infrastructure was collected.

In addition, extensive amount of photo material was collected on each assessed location.

2. Process of data collection

2.1. iRAP SR4S coding forms

Site visits were performed in July and August 2021. iRAP SR4S coding forms were filled in on each of assessed locations during site visit. The forms served as medium for the infrastructure assessment data to be entered into SR4S web application.

	Place	Date	No. of coding forms
Site visit 1	Dravograd	30.7.2021	3
Site visit 2	Kočevje	5.8.2021	2
Site visit 3	Stara Cerkev	5.8.2021	2
Site visit 4	Murska Sobota	11.8.2021	4
Site visit 5	Idrija	18.8.2021	4
Total			15

2.2. Photo material collection

Photo material was collected as seen in the following table:

	Place	Date	No. of photos
Site visit 1	Dravograd	30.7.2021	20
Site visit 2	Kočevje	5.8.2021	29
Site visit 3	Stara Cerkev	5.8.2021	16
Site visit 4	Murska Sobota	11.8.2021	41
Site visit 5	Idrija	18.8.2021	40
Total			146

3. Database on Pilot Action on TA6 in Slovenia

3.1. Databases of iRAP SR4S coding forms

iRAP SR4S coding forms with selected attributes for the iRAP Star Rating 4 Schools infrastructure assessment that were used during site visits have been scanned and uploaded to the following folders in Seafile:

- 04 RAD_PM/WP6_Extension/AT4.3 Pilot Actions TA5 and TA6/4.3.3 Implementation-Ready Road Layout Concept Plans TA6/SLO_Pilot_action_TA6_Database/Coding forms/Dravograd
- 04 RAD_PM/WP6_Extension/AT4.3 Pilot Actions TA5 and TA6/4.3.3 Implementation-Ready Road Layout Concept Plans TA6/SLO_Pilot_action_TA6_Database/ Coding forms s/Kocevje
- 04 RAD_PM/WP6_Extension/AT4.3 Pilot Actions TA5 and TA6/4.3.3 Implementation-Ready Road Layout Concept Plans TA6/SLO_Pilot_action_TA6_Database/ Coding forms /Stara Cerkev
- 04 RAD_PM/WP6_Extension/AT4.3 Pilot Actions TA5 and TA6/4.3.3 Implementation-Ready Road Layout Concept Plans TA6/SLO_Pilot_action_TA6_Database/ Coding forms /Murska Sobota
- 04 RAD_PM/WP6_Extension/AT4.3 Pilot Actions TA5 and TA6/4.3.3 Implementation-Ready Road Layout Concept Plans TA6/SLO_Pilot_action_TA6_Database/ Coding forms /Idrija

The coding forms contain the coded attributes from the iRAP SR4S assessment. The SR4S methodology includes selected attributes from general Star Rating procedure that affect the most the safety of pedestrians as vulnerable road users.

The coded attributes were:

- Carriageway
- Land use - driver-side
- Land use - passenger-side
- Area type
- Speed limit
- Median type
- Shoulder rumble strips
- Paved shoulder - driver-side
- Paved shoulder - passenger-side
- Intersection type
- Intersection channelization
- Intersecting road volume

- Intersection quality
- Property access points
- Number of lanes
- Lane width
- Curvature
- Quality of curve
- Grade
- Road condition
- Skid resistance / grip
- Delineation
- Street lighting
- Pedestrian crossing facilities - inspected road
- Pedestrian crossing quality
- Pedestrian crossing facilities - intersecting road
- Pedestrian fencing
- Speed management / traffic calming
- Vehicle parking
- Sidewalk - driver-side
- Sidewalk - passenger-side
- Sight distance
- Vehicle flow (AADT)
- Pedestrian peak hour flow across the road
- Pedestrian peak hour flow along the road driver-side
- Pedestrian peak hour flow along the road passenger-side
- Operating Speed (85th percentile)
- School zone warning
- School zone crossing supervisor

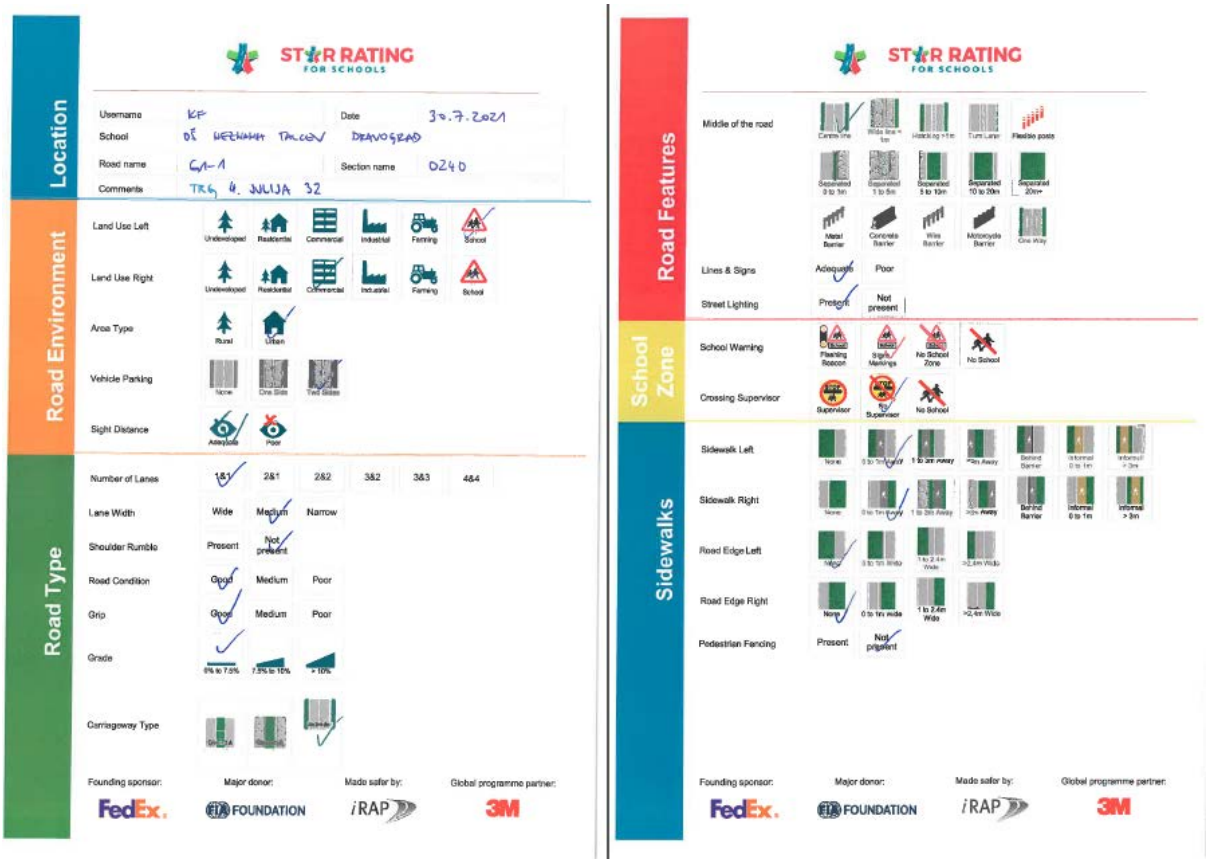

Figure 1 Example of the iRAP SR4S coding form

3.2. Databases of site visit photos

Photos, obtained during site visits have been uploaded to the following folders on Seafile:

- 04 RAD_PM/WP6_Extension/AT4.3 Pilot Actions TA5 and TA6/4.3.3 Implementation-Ready Road Layout Concept Plans TA6/SLO_Pilot_action_TA6_Database/Photos/Dravograd
- 04 RAD_PM/WP6_Extension/AT4.3 Pilot Actions TA5 and TA6/4.3.3 Implementation-Ready Road Layout Concept Plans TA6/SLO_Pilot_action_TA6_Database/Photos/Kocevje
- 04 RAD_PM/WP6_Extension/AT4.3 Pilot Actions TA5 and TA6/4.3.3 Implementation-Ready Road Layout Concept Plans TA6/SLO_Pilot_action_TA6_Database/Photos/Stara Cerkev
- 04 RAD_PM/WP6_Extension/AT4.3 Pilot Actions TA5 and TA6/4.3.3 Implementation-Ready Road Layout Concept Plans TA6/SLO_Pilot_action_TA6_Database/Photos/Murska Sobota
- 04 RAD_PM/WP6_Extension/AT4.3 Pilot Actions TA5 and TA6/4.3.3 Implementation-Ready Road Layout Concept Plans TA6/SLO_Pilot_action_TA6_Database/Photos/Idrija

Each folder contains all the photos, taken during corresponding site visit.

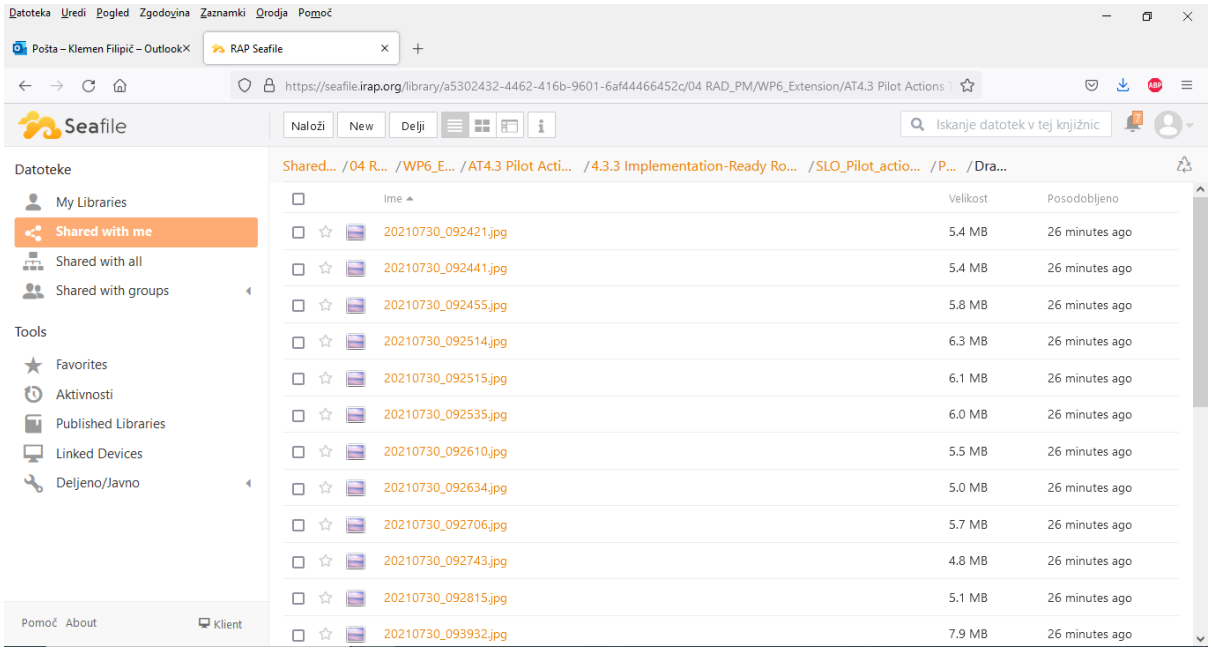

Figure 2 Example of folder with site visit photos on Seafile