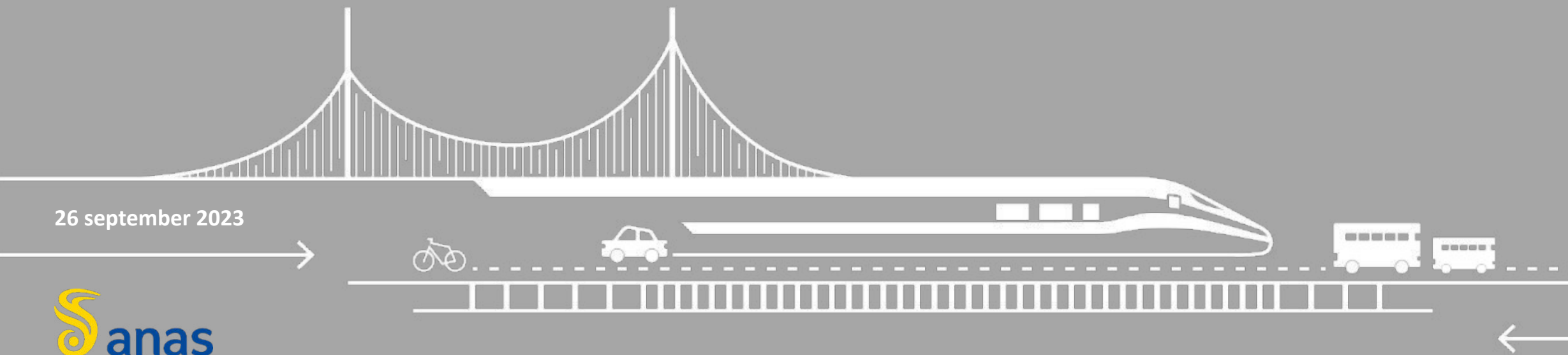


RAP in Europe: Advancing Road Infrastructure Safety towards 2030

RAP ACTIVITIES IN ITALY



26 september 2023

RAP ACTIVITIES IN ITALY

PARTNERS



ANAS S.p.A.

Member as Road Authority since 2018

Anas road network

Motorways	1.220 km
Motorways link	354 km
National roads	25.359 km
NSA (roads awaiting classification or declassified)	285 km
Junctions and Service roads	5.302 km
Total	32.520 km



ROAD DESIGN



CONSTRUCTION



MAINTENANCE AND OPERATION

FRAMEWORK COOPERATION AGREEMENT BETWEEN ACI AND ANAS FROM 2017

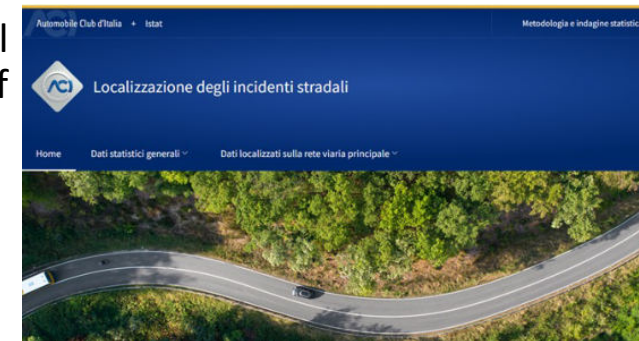
AUTOMOBILE CLUB d'ITALIA (ACI)



Member as Civil Society Association since 2005

Automobile Club d'Italia

- ❑ Partner of the National Institute of Statistics (ISTAT) in the Statistical Collection of Road Accidents data
- ❑ Responsible for checking and publishing the “Traffic Accident Localization” on the national road network
- ❑ Nationwide presence with 99 Provincial Automobile Clubs
- ❑ Member of several interdisciplinary groups of road safety experts



LEADING ISSUES

- ✓ Update of the European Road Safety Management Directive (1936/2019), implemented in Italy by Legislative Decree 213/2021 ⇒ **Network-Wide Road Safety Assessment**
- ✓ Importance for Road Authorities of adopting a '**proactive**' approach to road safety management
- ✓ Adoption of a **Safe System approach**

ACTIVITIES

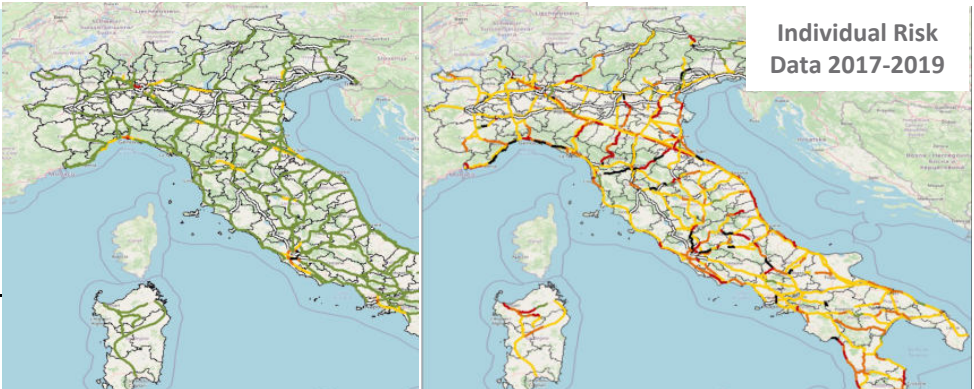
PREVIOUS ACTIVITIES

STAR RATING and SRIP: pilot project covering part of the road network in Veneto and Friuli Venezia Giulia - developed with the support of RACC – 2018 – **400 km**

RISK MAPPING, STAR RATING and SRIP: SLAIN project (action no. 2018-EU-TM-0019-S - CEF) which concerned the core TEN-T network roads managed by Anas – 2019-2021 – Risk maps: **4.200 km**, Star Rating and SRIP: **745 km**

STAR RATING and SRIP: Part of the road network in **Lazio region** - carried out by ACI – 2021 - **209 km**

RISK MAPPING: **17.500 km** of road of which 7.160 km of motorway and 10,340 km of main road – March 2021 - carried out by ACI



Individual Risk Data 2017-2019

ACTIVITIES CARRIED OUT IN 2022-2023

STAR RATING and SRIP:

Part of the road network in **Lombardia region** - carried out by ACI - 2022: **210 km**

Part of the road network in **Marche e Abruzzo regions** - carried out by Anas – 2023 - **433 km**



Legenda
 Basso
 Medio-Basso
 Medio
 Medio-Alto
 Alto
 nd

ON-GOING ACTIVITIES

STAR RATING and SRIP: SS 67 Tosco-Romagnola – **Toscana region** - carrying out by ACI: about **130 km**



STAR RATING RESULTS

Currently classified with the Star Rating protocol about **2.000 km** of the Italian road network (almost 3.000 km of carriageways):

- **67 km** of toll motorways
- **805 km** of non-toll motorways and motorway links
- **321 km** of dual carriageways
- **785 km** of single carriageways

	3 STARS OR BETTER			
	VEHICLE OCCUPANT		MOTORCYCLIST	
	Length [km]	Percent of total	Length [km]	Percent of total
MOTORWAYS	1.143,9	65,6%	65,6	0,8%
MAIN ROADS	880,2	67,5%	400,5	30,7%

	Vehicle Occupant		Motorcyclist		Pedestrian		Bicyclist	
	Length [km]	Percent of total	Length [km]	Percent of total	Length [km]	Percent of total	Length [km]	Percent of total
5 STARS	11	0,4%	0,1	0,0%	0,5	0,0%	15,47	0,5%
4 STARS	135,53	4,4%	8,7	0,3%	33,79	1,1%	37,62	1,2%
3 STARS	1.877,54	61,6%	405,38	13,3%	92,5	3,0%	196,8	6,5%
2 STARS	834,74	27,4%	665,96	21,8%	106,09	3,5%	405,69	13,3%
1 STAR	160,93	5,3%	1.939,62	63,6%	362,6	11,9%	313,9	10,3%
Not Applicable	28,24	0,9%	28,24	0,9%	2.452,52	80,5%	2.078,52	68,2%

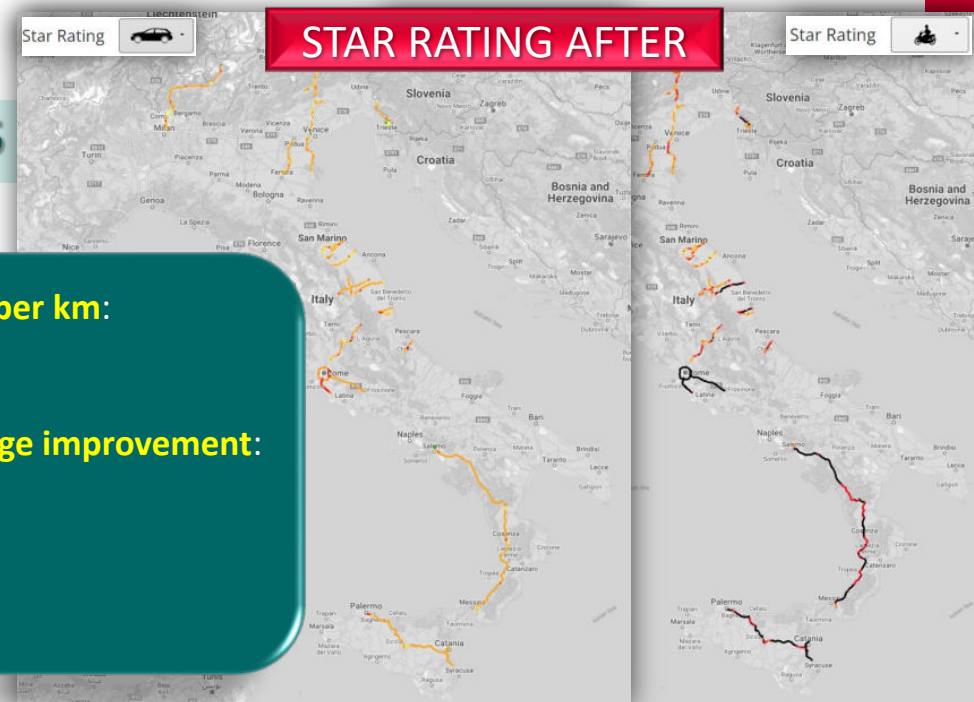
SAFER ROAD INVESTMENT PLANS AND MAIN COUNTERMEASURES

- ✓ Developed with VIDA maintenance-oriented Investment Plans
- ✓ Assessed the effects of reduced speed limits

Roadside barriers
Shoulder rumble strips
Central hatching
Street lighting
Skid resistance
Improve delineation and signing

Clear roadside hazards
Shoulder sealing
Footpath provision
Traffic calming

Average estimated cost per km:
50.000€ ÷ 200.000€
BCR: 1 ÷ 7
"3 stars or better" average improvement:
+ 38% CAR
+60% MOTORCYCLIST
+26% PEDESTRIAN
+31% BICYCLIST



CONCLUSIONS

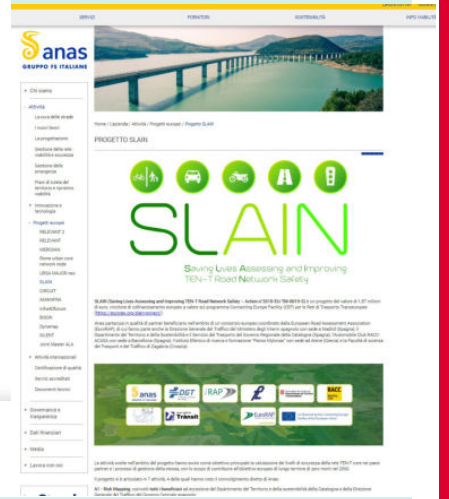
DISSEMINATION AND IMPLEMENTATION

ANAS Project

- ✓ Results shared with Top Management
- ✓ Proposal to use the results as further input for the drafting of Action Plans to improve road safety
- ✓ Results published in Anas website (<https://www.stradeanas.it/it/lazienda/attivit%C3%A0/progetti-europei>)

ACI Project

- ✓ Sharing with Stakeholders (Road Operators, Ministry)
- ✓ Results published in “Onda Verde” magazine (<https://issuu.com/aci-it/docs/ondaverde-041?fr=sY2EzZTQ0ODc4>, https://issuu.com/aci-it/docs/ov_44?fr=sMGQwMzQ0ODc4, <https://issuu.com/aci-it/docs/ondaverde-046?fr=sOGIxZjQ0ODc4>)



PROTOCOL APPLICATION REMARKS

PROS

- ✓ Solid and scientific evidence-based methodology
- ✓ Excellent basis for planning measures to improve road safety by allowing an a priori assessment of the benefits in terms of accident reduction

CONS

- ✓ Time required for attribute coding
- ✓ Severity of assessment for motorway or dual carriageway road infrastructures

NEXT STEPS

- Apply the Star Rating protocol to a further portion of the Italian road network
- Evaluate the possibility of automatically coding some attributes from the data available in the Road Inventory database



THANKS

