Sistemi di supporto alle decisioni: applicazioni nella Regione Lazio

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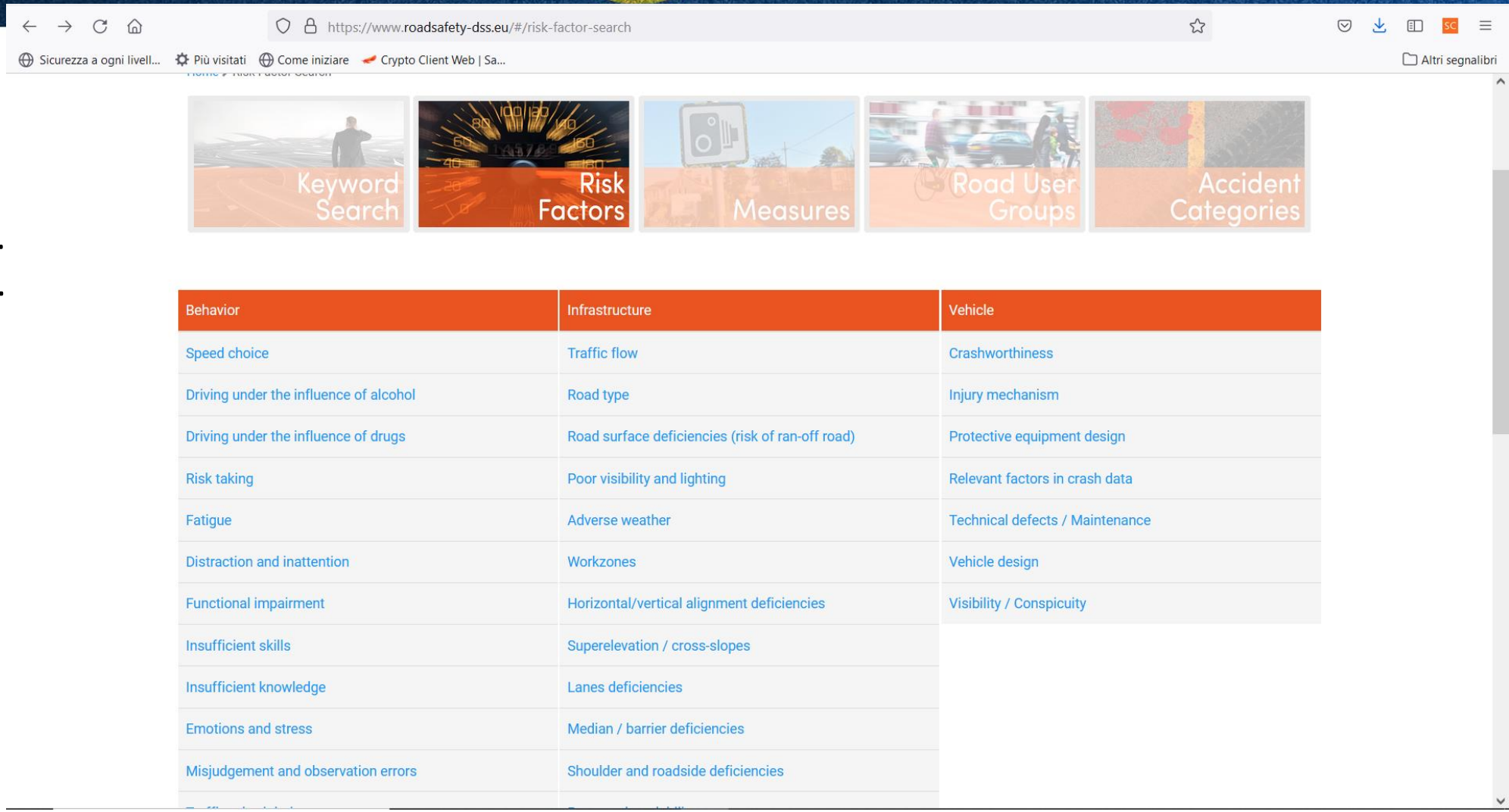
CENTRO DI RICERCA
PER IL
TRASPORTO E LA LOGISTICA

Introduzione

- Perché i Sistemi di Supporto alle Decisioni (DSS):
  - Complessità del problema
  - Approccio scientifico ed *evidence-based*
- DSS di tipo *data-based*
- DSS di tipo *inspection-based*
- I diversi livelli di applicazione: strategico (strategie), applicativo (misure)

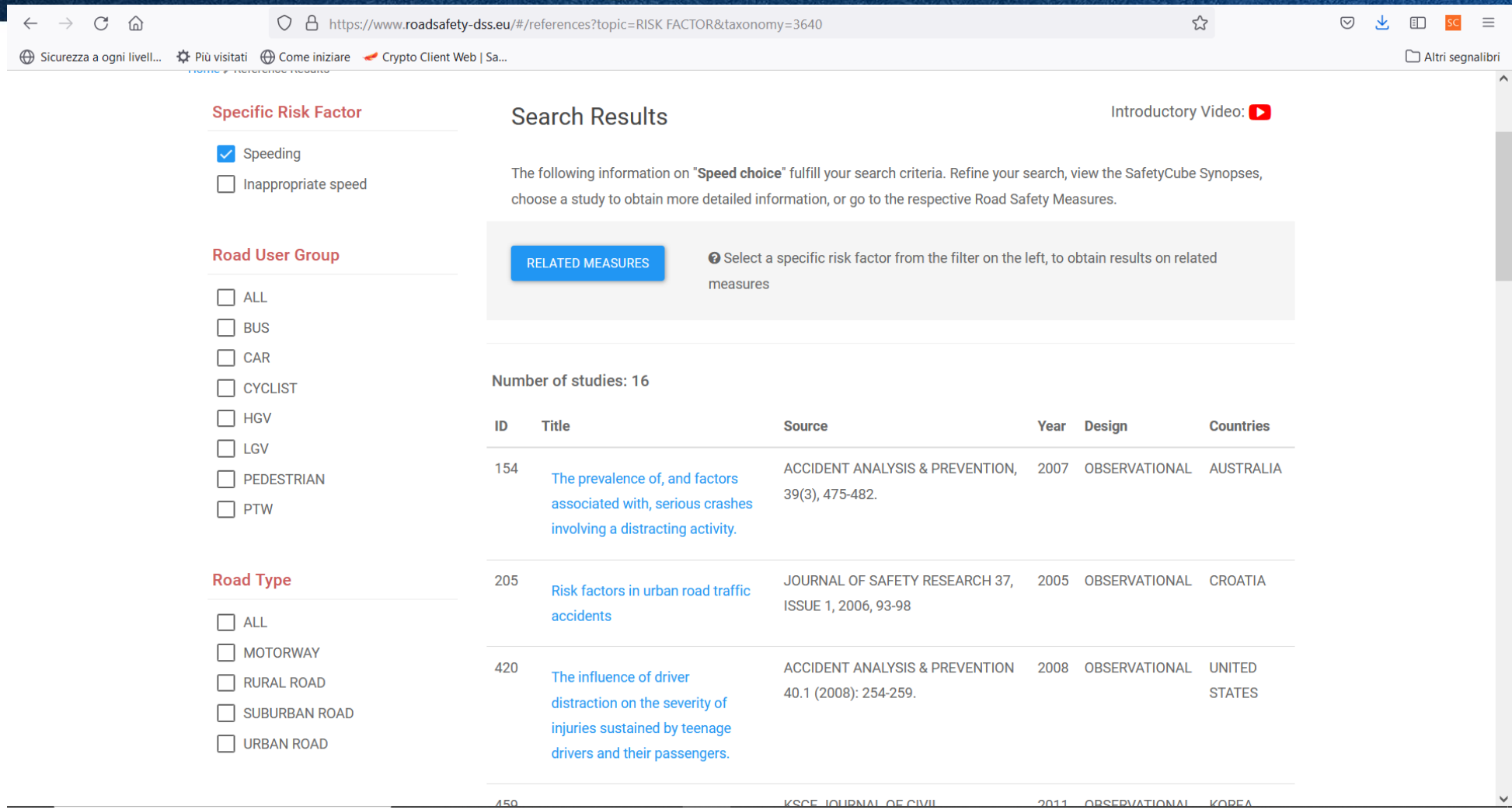
SAFETYCUBE DSS

SAFETYCUBE DSS

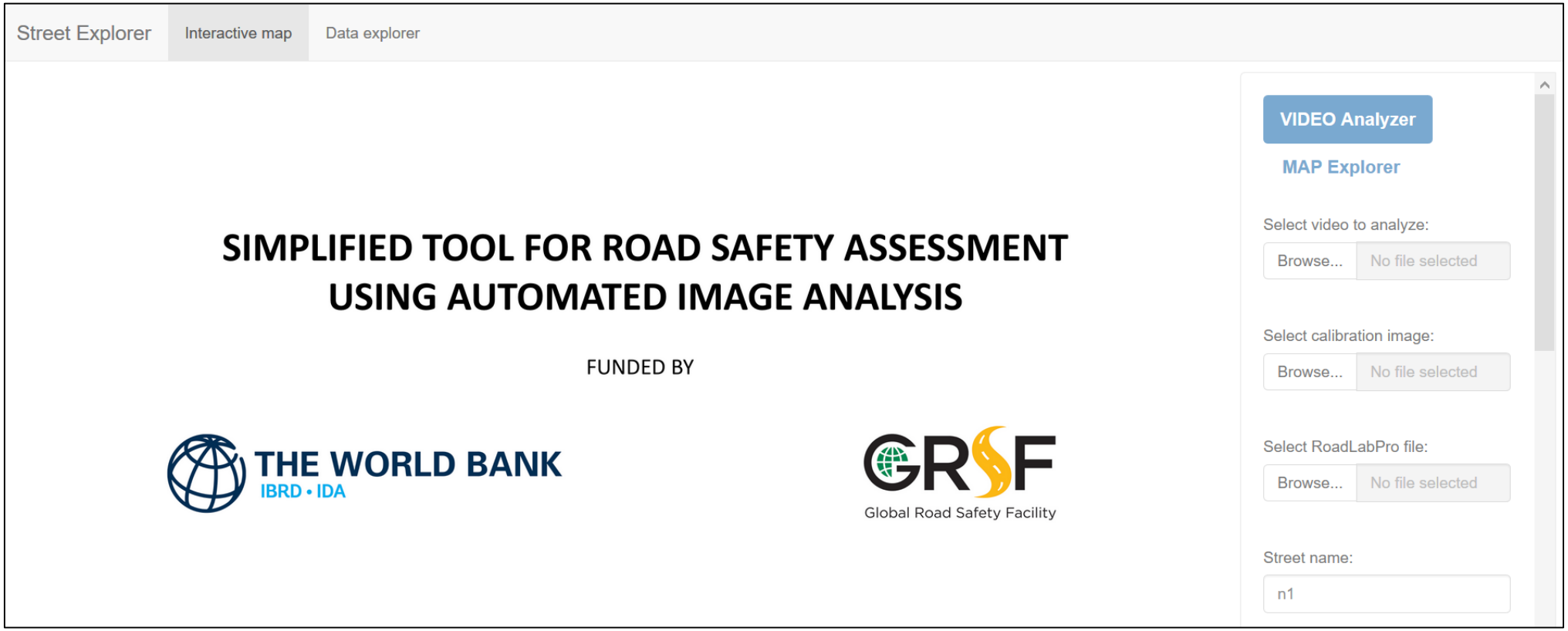


Behavior	Infrastructure	Vehicle
Speed choice	Traffic flow	Crashworthiness
Driving under the influence of alcohol	Road type	Injury mechanism
Driving under the influence of drugs	Road surface deficiencies (risk of ran-off road)	Protective equipment design
Risk taking	Poor visibility and lighting	Relevant factors in crash data
Fatigue	Adverse weather	Technical defects / Maintenance
Distraction and inattention	Workzones	Vehicle design
Functional impairment	Horizontal/vertical alignment deficiencies	Visibility / Conspicuity
Insufficient skills	Superelevation / cross-slopes	
Insufficient knowledge	Lanes deficiencies	
Emotions and stress	Median / barrier deficiencies	
Misjudgement and observation errors	Shoulder and roadside deficiencies	

SAFETYCUBE DSS



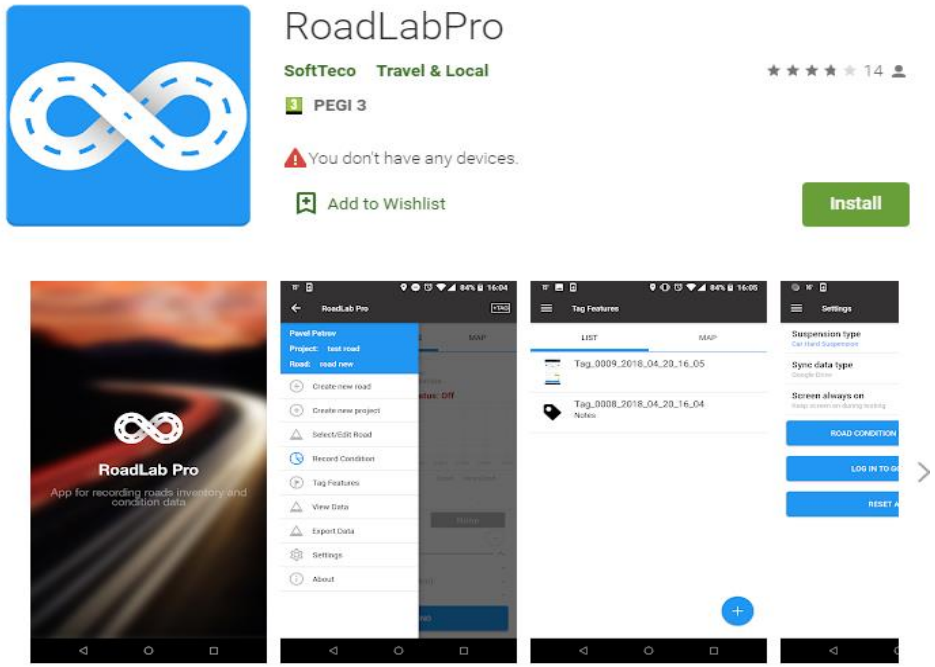
Road Analyst

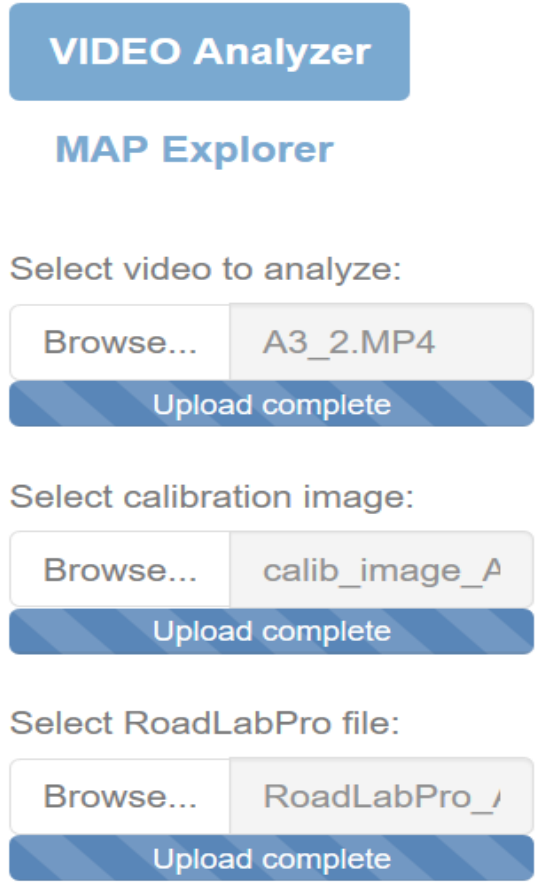


Road Analyst

MV crashes	Pedestrian crashes	Cycle crashes
•Facilities of bicycling	•Pedestrian crossing facility	•Facilities of bicycling
•Grade	•Curvature	•Curvature
•Curvature	•Delineation	•Delineation
•Median	•Sidewalk	•Shoulder width
•Motorcycle dedicated lane	•Speed management/ traffic calming	•Road surface conditions
•Shoulder width	•Area Type	•Speed management/ traffic calming
•Pedestrian crossing		•Area Type
•Delineation		•Motorcycle dedicated lane
•Roadside severity		
•Sidewalk		
•Speed management/ traffic calming		
•Lane width		
•Number of lanes		
•Road surface conditions		
•Area Type		

Road Analyst





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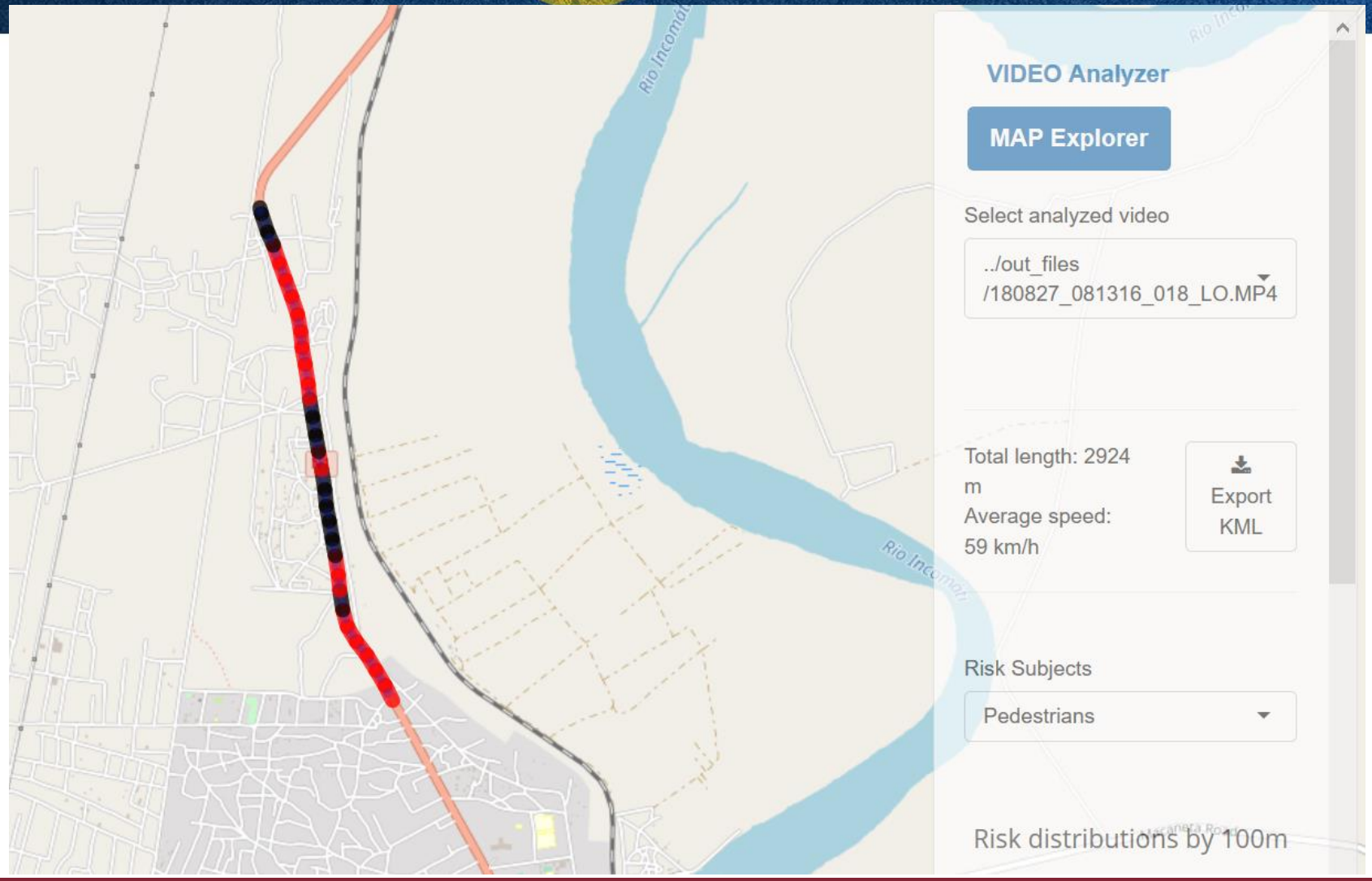

Safety Manager: CEREMSS

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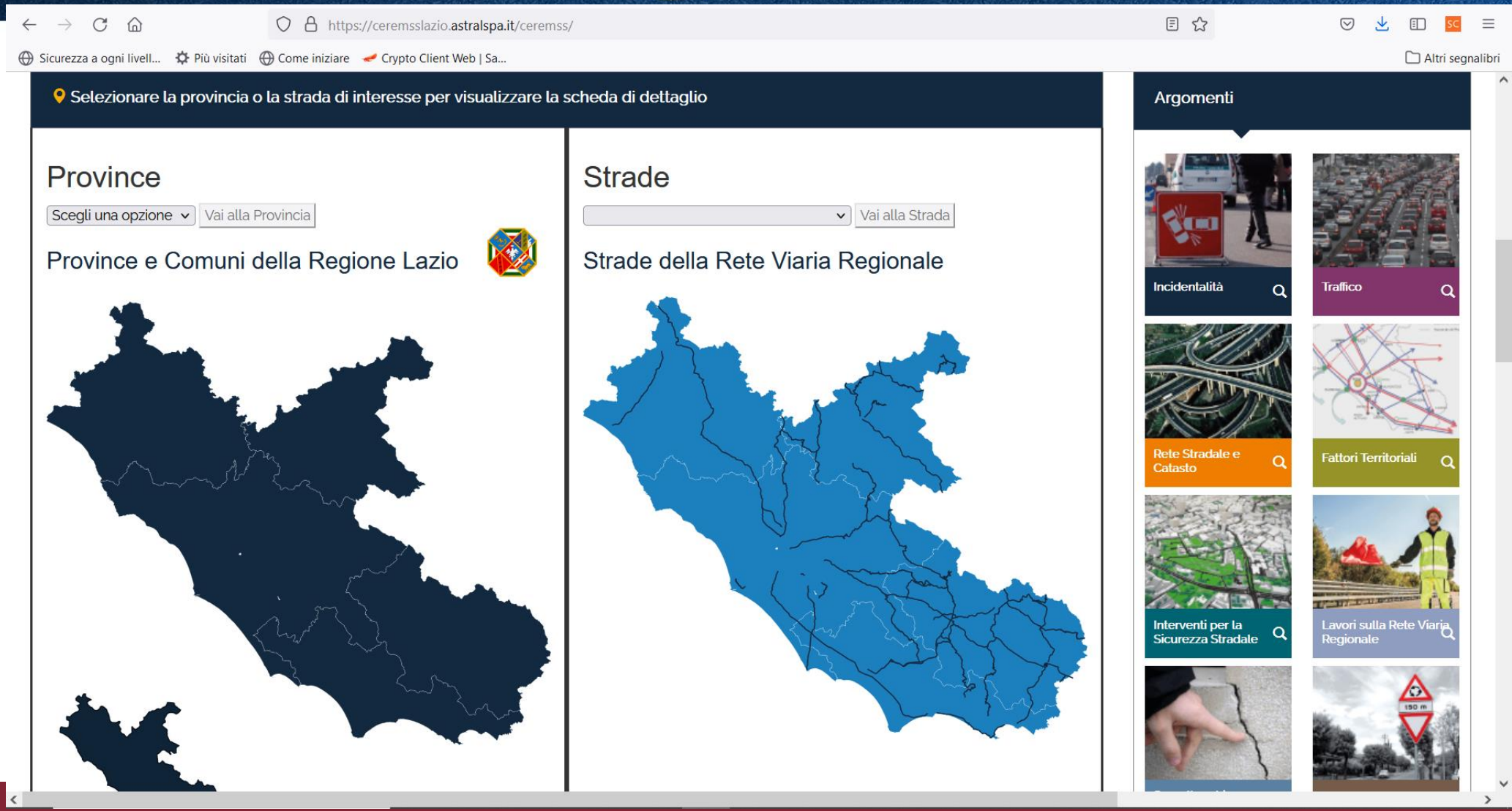

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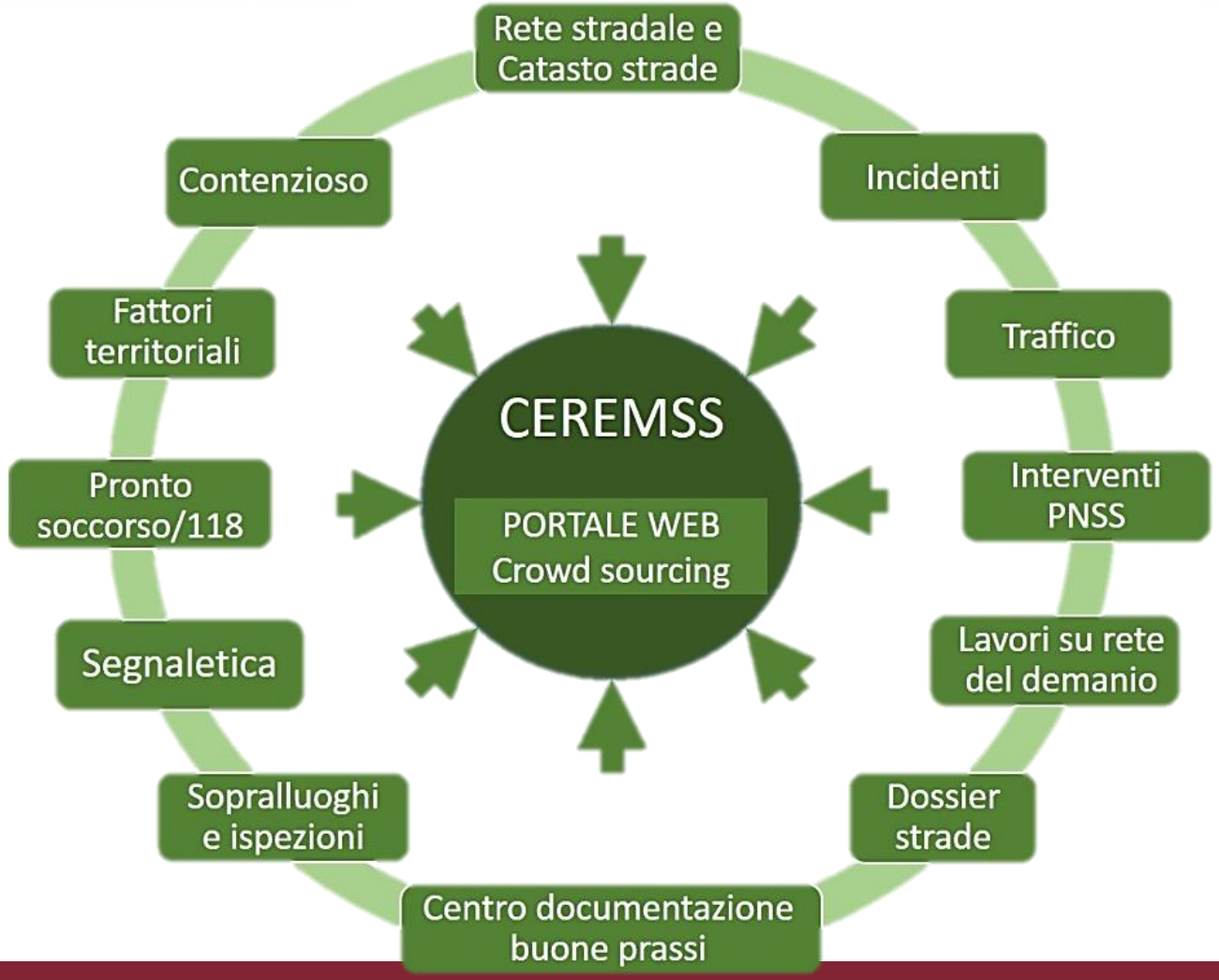

Safety Manager: CEREMSS

1. • Selezione siti
2. • Analisi delle cause
3. • Individuazione di contromisure
4. • Analisi Costi-Benefici
5. • Monitoraggio e valutazione

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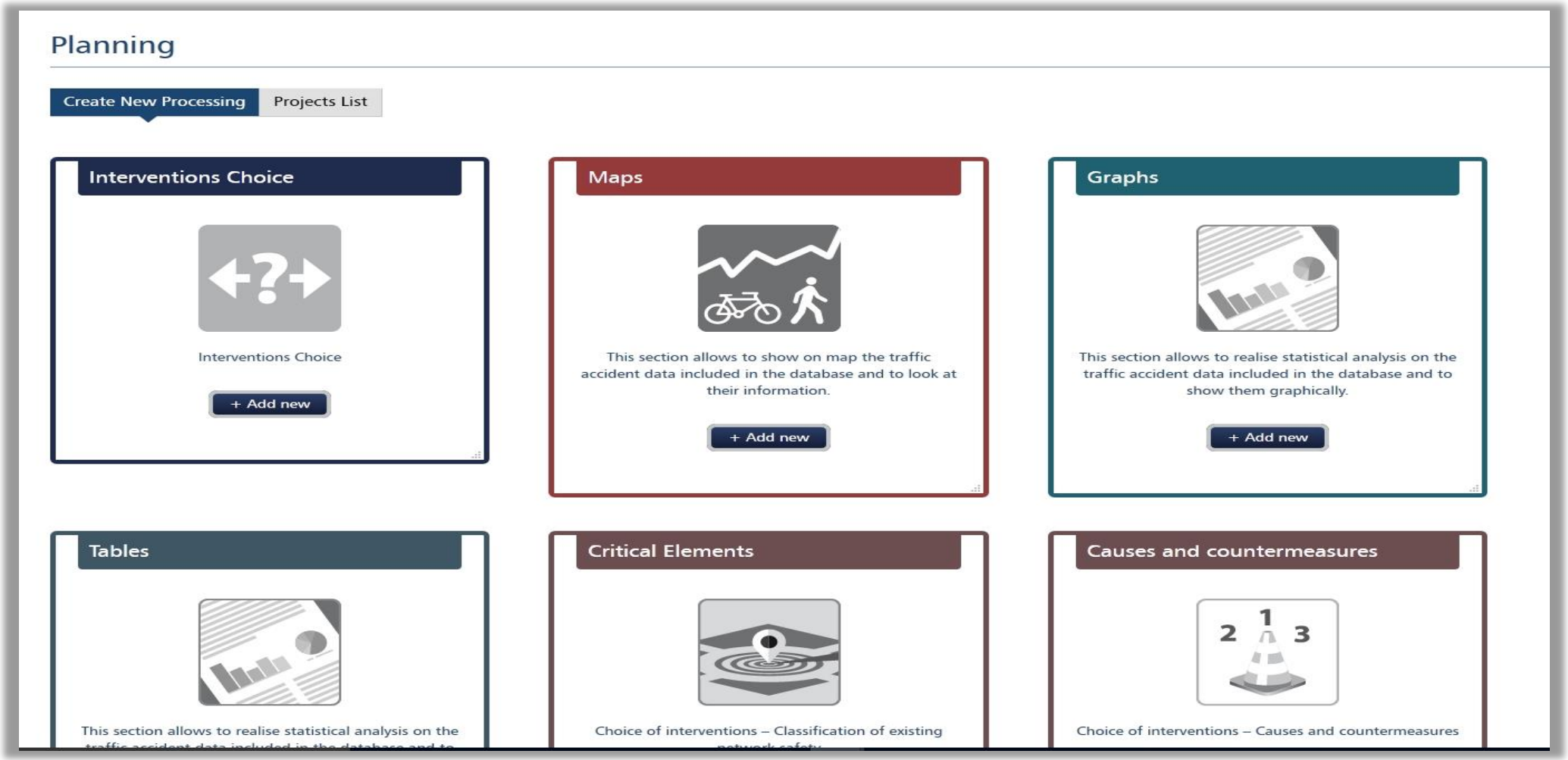

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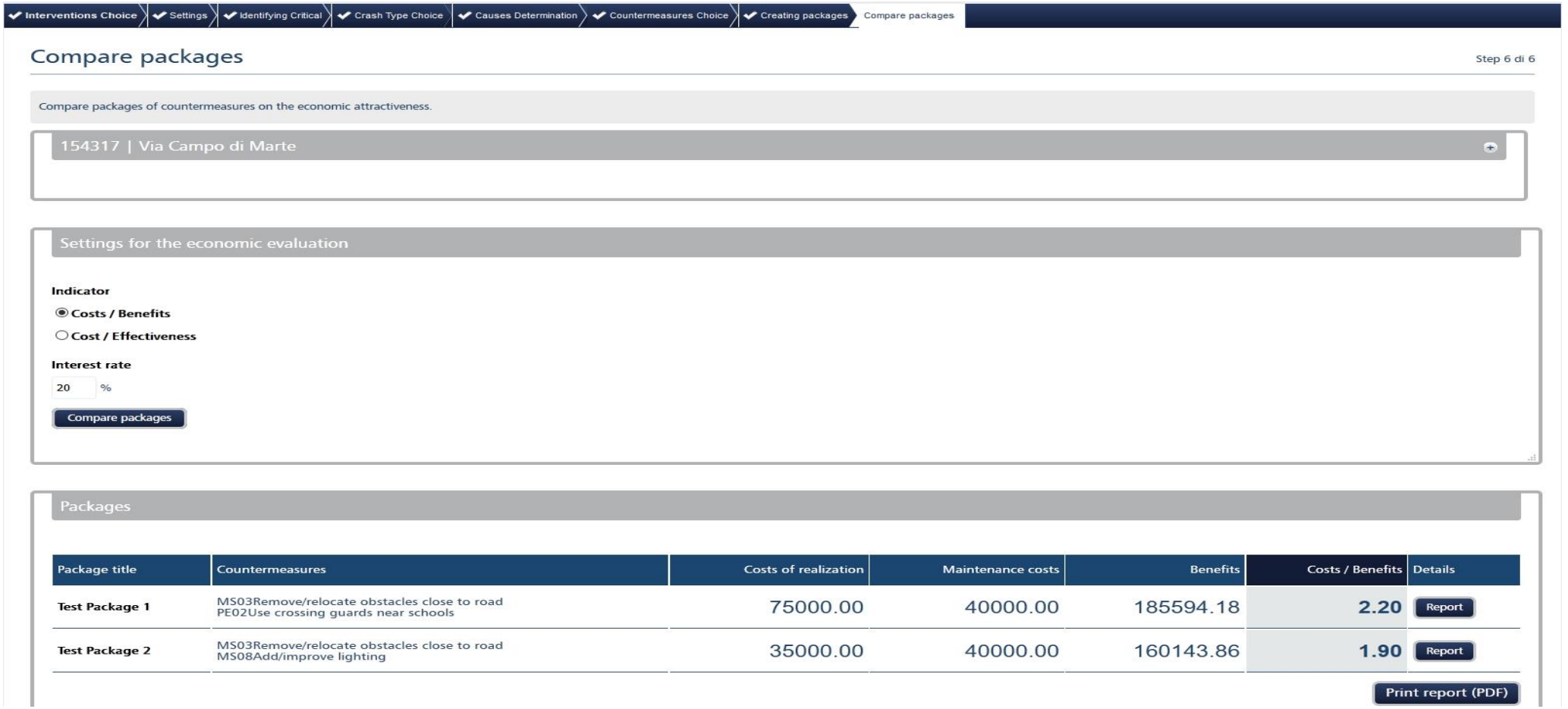

Interventions Choice | Settings | Identifying Critical | Crash Type Choice | Causes Determination | Countermeasures Choice | Creating packages | Compare packages

Compare packages

Step 6 di 6

Compare packages of countermeasures on the economic attractiveness.

154317 | Via Campo di Marte

Settings for the economic evaluation

Indicator

- (•) **Costs / Benefits**
- ( ) **Cost / Effectiveness**

Interest rate

20 %

Compare packages

Packages

Package title	Countermeasures	Costs of realization	Maintenance costs	Benefits	Costs / Benefits	Details
Test Package 1	MS03Remove/relocate obstacles close to road PE02Use crossing guards near schools	75000.00	40000.00	185594.18	**2.20**	Report
Test Package 2	MS03Remove/relocate obstacles close to road MS08Add/improve lighting	35000.00	40000.00	160143.86	**1.90**	Report

Print report (PDF)

Anas
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PIARC
Comitato Nazionale Italiano
ASSOCIAZIONE MONDIALE DELLA STRADA

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