

#### 21st Transport Sector Coordinating Committee Meeting

22-23 April 2024 • Almaty, Kazakhstan

## 21-е заседание Координационного комитета по транспортному сектору

22-23 апреля 2024 года • Алматы, Казахстан



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CAREC
Central Airá Regional Economic Cooperation Program

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## Crash data review in the CAREC region

**Antonino Tripodi** 

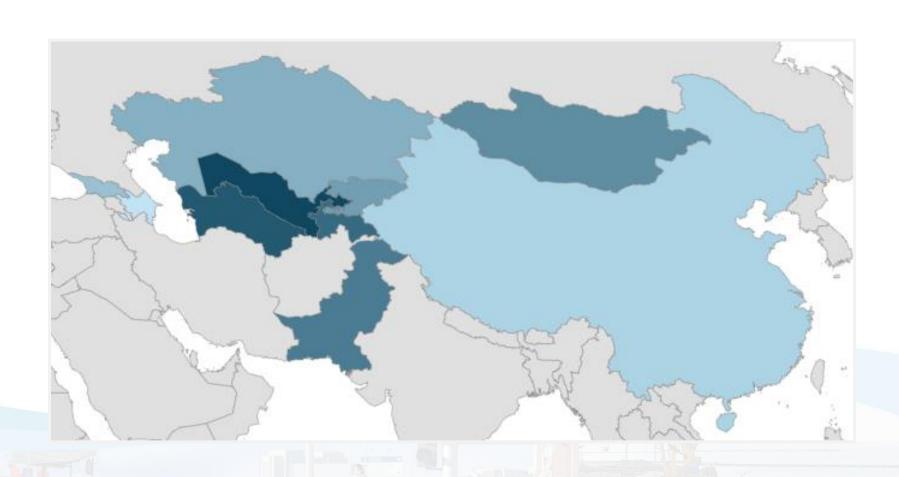
Road Safety Consultant FRED Engineering

#### Consultancy objectives

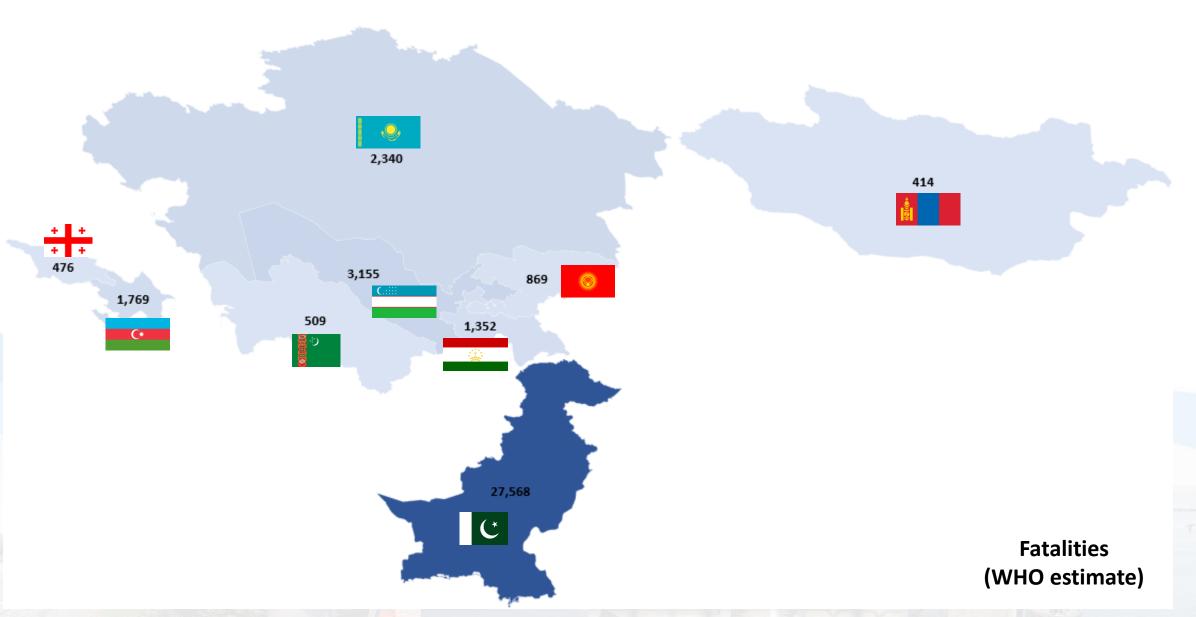
Document current crash data management practices in CAREC Identify recommendations for improvements Establish a basis for a harmonized data management system Informed, shared and coordinated approach to road safety

#### Which countries

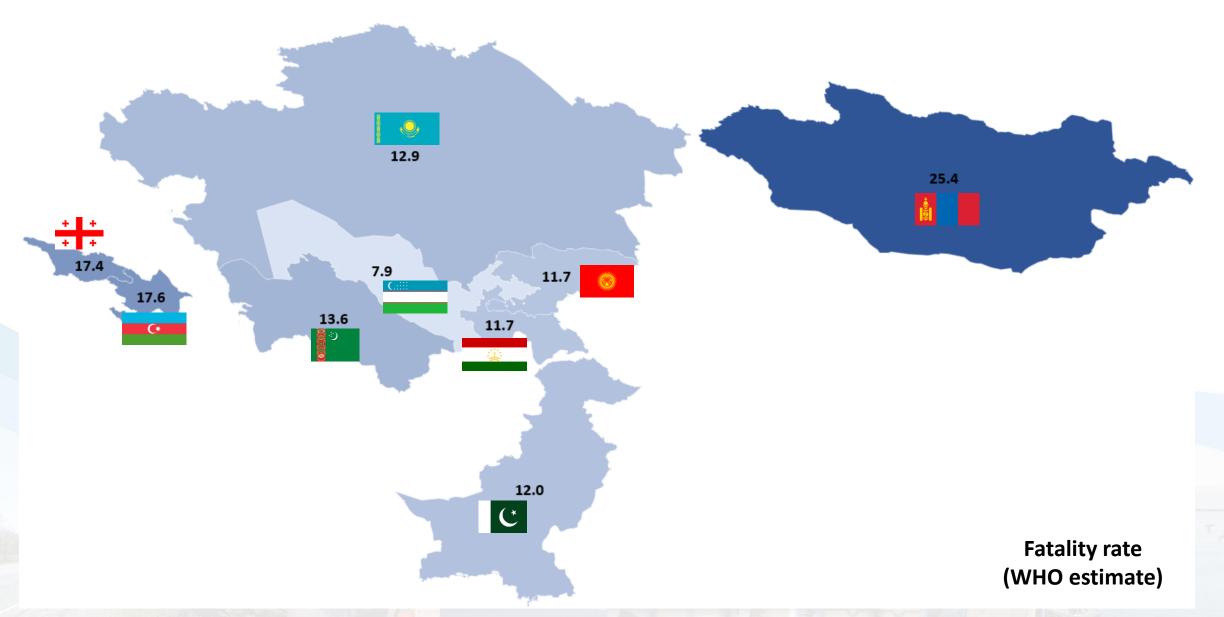
- Azerbaijan
- DRC (2 regions)
- Georgia
- Kazakhstan
- Kyrgyz Republic
- Mongolia
- Pakistan
- Tajikistan
- Turkmenistan
- Uzbekistan



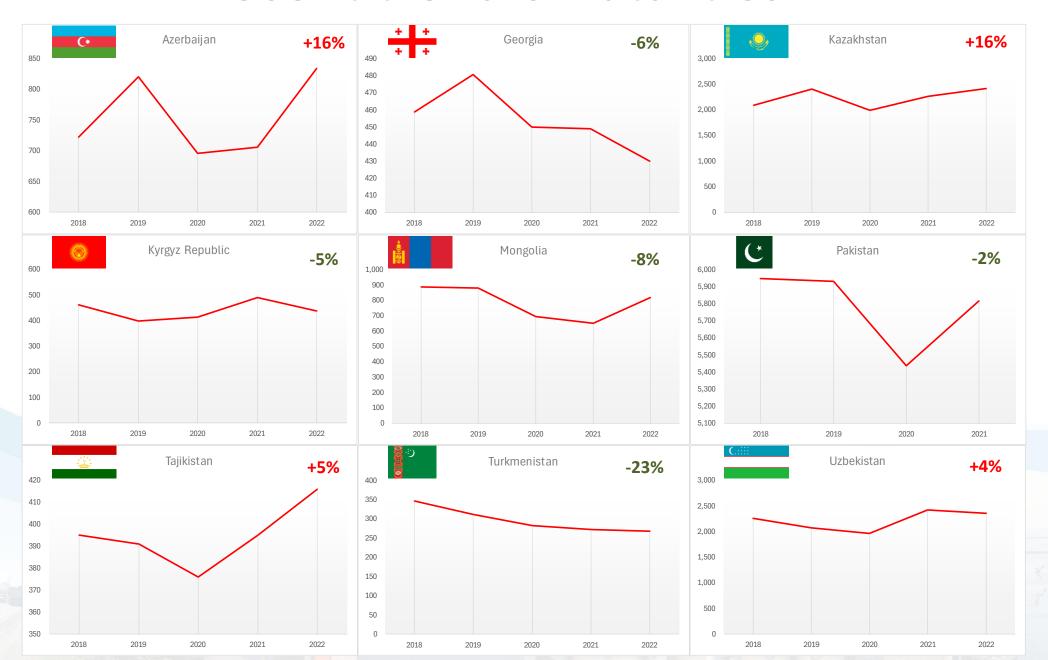
#### Key data comparison



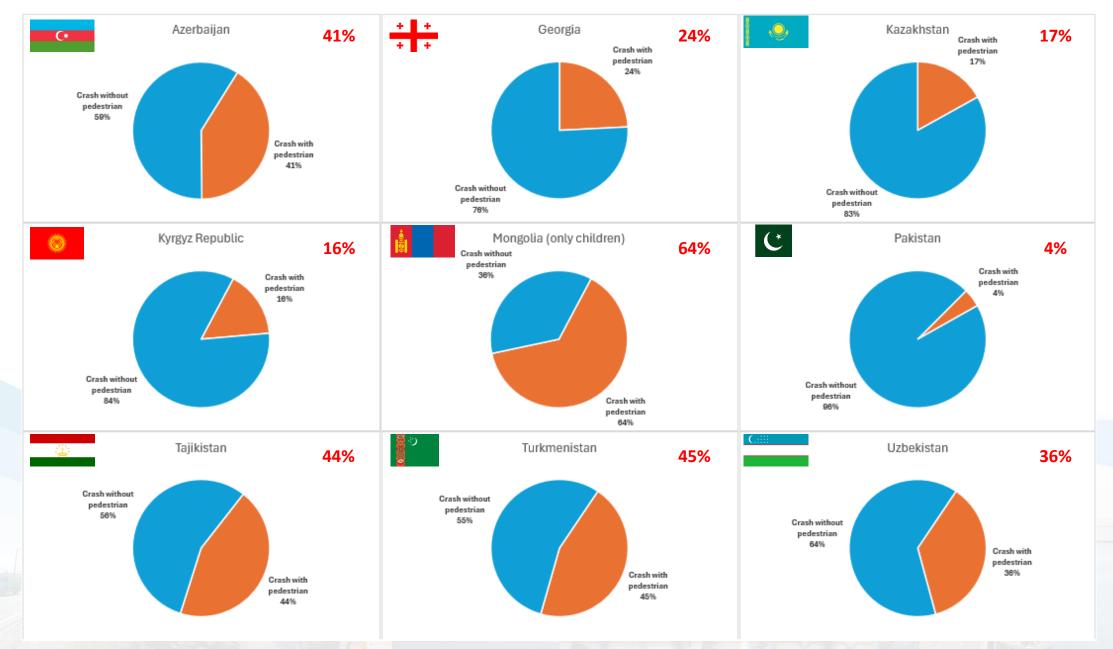
#### Key data comparison



#### Recent trend of fatalities



### RTC involving pedestrians



#### Standards for a reliable RTC data system

#### Good quality data

- To understand problems, to communicate about them and to assess successes / failures
- No data → No evidencebased policies
- Without good,
   comprehensive, well analyzed data you never
   know ....

	Topic	Reference standard		
	Road crash data collection	Common / unique crash notification system		
		RTC definitions compliant with international standards		
		All road crash scenes with victims attended		
		Unique road crash registration system		
		Collected variables allows for data analysis		
		Precise location of road crashes on map		
	Storage, processing, use of road crash data	Data recorded by all actors in a single information system		
		Data transferred to a national road crash database		
		Data accessible by all stakeholders		
		RTC data management system available		
	Other road safety data	Risk exposure data included in data collection and storage		
		SPIs included in data collection and storage		
	Data analysis	Comprehensive analysis of RTC and road safety data		

#### Road crash data collection: key aspects

Country	RTC definition	Crash scene attendance	Crash registration system	Precise crash location
Azerbaijan	Fatal crash within 7 days	All crashes	Paper-based / Not coordinated	No GPS
Georgia	Fatal crash no limit	All crashes	Paper-based / Not coordinated	No GPS
Kazakhstan	Fatal crash no limit	All crashes	Paper-based / Not coordinated	No GPS
Kyrgyz Republic	Fatal crash no limit	All crashes	Paper-based / Not coordinated	No GPS
Mongolia	Unknnow definitions	All crashes	Paper-based / Not coordinated	No GPS
Pakistan	Several definitions	Lack in Provinces	Paper-based / Not coordinated	No GPS
Tajikistan	Fatal crash within 7 days	All crashes	Paper-based / Not coordinated	No GPS
Turkmenistan	Fatal crash no limit	All crashes	Paper-based / Not coordinated	No GPS
Uzbekistan	Fatal crash within 30 days	All crashes	Use of tablets to collect data	No GPS

#### Storage, processing, use of data: key aspects

Country	Common information system	Data transfer to national database	Crash data management system	
Azerbaijan	Accessible only by MoIA	Police data only	Missing	
Georgia	Accessible only by Police	Police data only	Development planned	
Kazakhstan	Partially accessible	Police data only	Dashboard existing	
Kyrgyz Republic	Accessible only by Police	Police / Health data separate	Missing	
Mongolia	Accessible only by Police	Missing	Missing	
Pakistan	Missing	Partial (NHMP)	Partial (NHMP)	
Tajikistan	Missing	Missing	Missing	
Turkmenistan	Missing	Missing	Missing	
Uzbekistan	Development planned	Police data only	Development planned	

### Other RS data and analysis: key aspects

Country	Risk exposure data	Safety performance indicators	Systematic data analysis
Azerbaijan	Missing	Missing	Analysis of high-risk sites
Georgia	Missing	Missing	Analysis of all crash by Police
Kazakhstan	Some data existing	Developments planned	Analysis of problems / solutions
Kyrgyz Republic	Missing	Missing	Partial analysis of high-risk sites
Mongolia	Missing	Missing	Summary analysis
Pakistan	Missing	Missing	Partial analysis by various agencies
Tajikistan	Missing	Missing	Partial analysis
Turkmenistan	Some data existing	Missing	Partial analysis
Uzbekistan	Partial	Partial	Analysis by a committee

#### Key recommendations

Road crash data collection

Revised RTC definitions

Revised data collection forms (Police, health)

Electronic means to collect data (with GPS)

Storage, processing, use of road crash data

National (unique) RTC database

Web-based RTC data management system

Data system accessible to all stakeholders

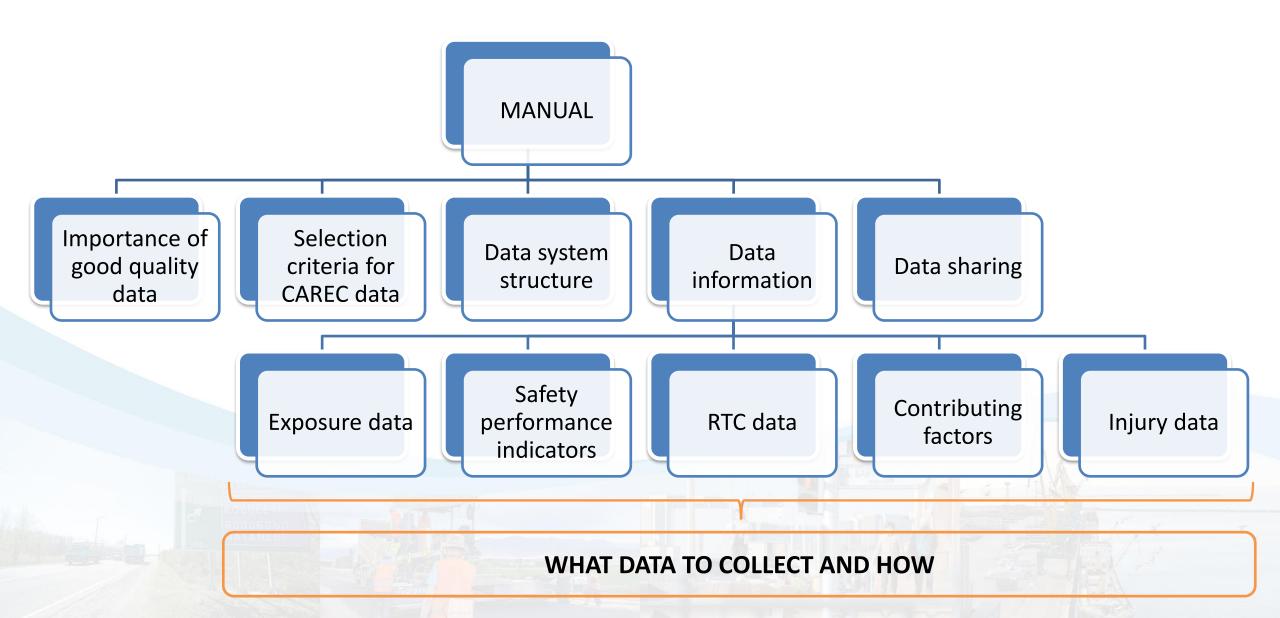
Other road safety data & analysis

Merging of crash and road safety data

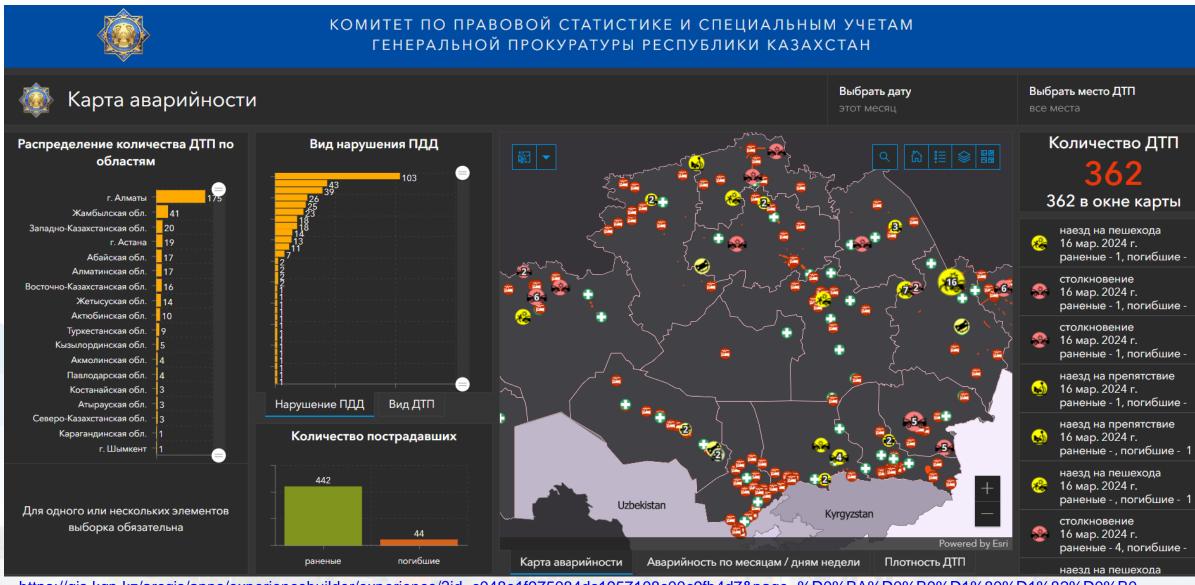
Set-up a National Road Safety Observatory

Links with APRSO

#### Common investigation manual



#### Data visualization: Kazakhstan good practice



## RTC dashboards: Azerbaijan



#### RTC dashboards: Mongolia



# THANK YOU FOR THE ATTENTION

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