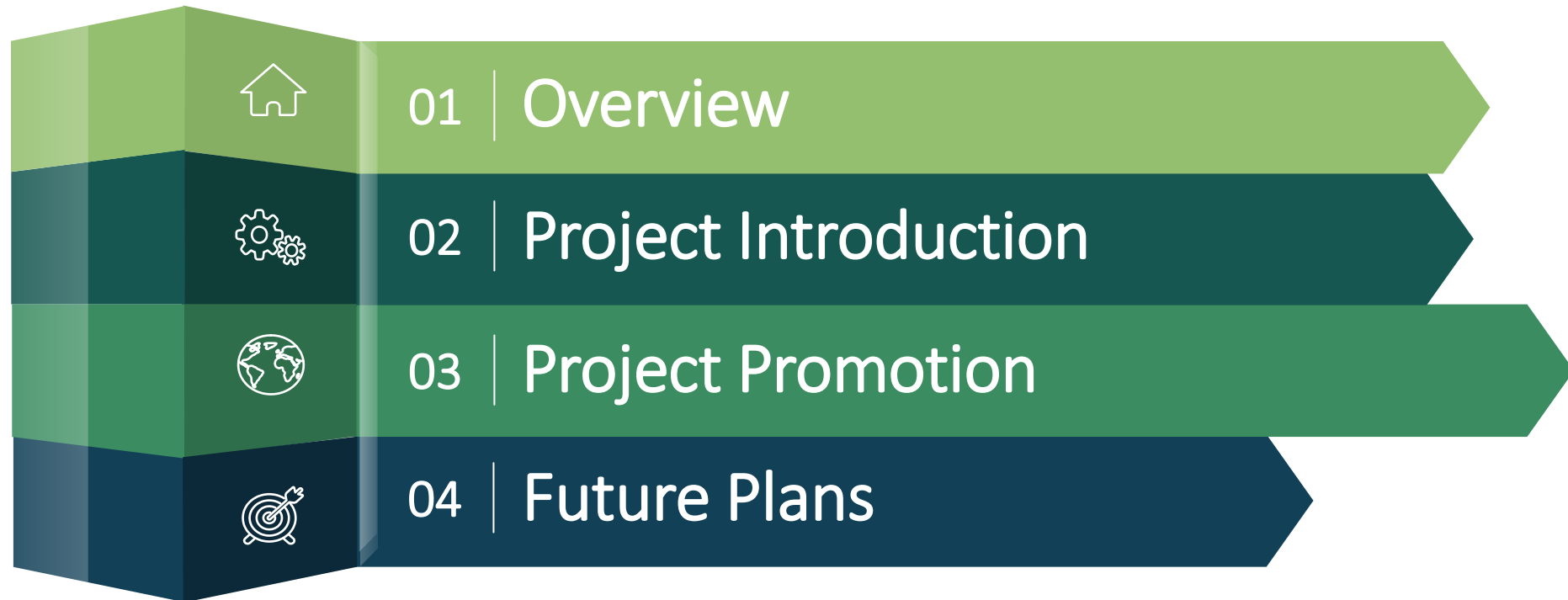






# **Mongolia Transport Safety Improvement Project : focusing on the PTI**

7th June, 2023

MR GWON YEONGMUN



	01   Overview
	02   Project Introduction
	03   Project Promotion
	04   Future Plans

# OVERVIEW



## ALWAYS FOR YOU

The Korea Transportation Safety Authority is by your side anytime, anywhere.

The Korea Transportation Safety Authority thinks of the citizens before anyone else in every aspect of citizens' lives, cares about the citizens before anyone else, and dreams of the citizens' happiness before anyone else.

## TS HISTORY

The Korea Transportation Safety Authority has been laying the groundwork for traffic safety in Korea for 40 years, thinking about the safety of the people. We dream of a new future of traffic safety by contributing to national economic development and promotion of public welfare through traffic safety.



Before 2000s	2000s	2010s	2020s
<p>Dec. 28, 1979 Enacted and promulgated Transportation Safety Promotion Authority Act (Law No. 3195)</p> <p>Jul. 1, 1981 Established the Transportation Safety Promotion Authority</p> <p>May 15, 1987 Established the Automobile Testing and Research Institute</p> <p>Nov. 26, 1993 Completed the first stage construction work of the Automobile Testing and Research Institute</p> <p>Apr. 5, 1995 Changed the Authority name to Transportation Safety Authority</p>	<p>Jan. 1, 2000 Commenced with the support work for car accident victims</p> <p>Apr. 12, 2002 Commenced with the investigation on automobile defects</p> <p>Jan. 1, 2003 Commenced with the approval work for the structural change of two-wheeled Vehicles</p> <p>May 7 Completed with the construction of proving ground</p> <p>Jan. 26, 2004 Commenced the qualification test for the LRV pilot and the certification and inspection work for safety</p> <p>Mar. 16, 2006 Commenced with the work of Railway Safety Inspection</p> <p>Mar. 2, 2009 Opened the Research and Education Center for a Safe Driving Experience</p> <p>Mar. 30 Introduced the General Vehicle Inspection System</p>	<p>Nov. 25, 2011 Commenced with the re-inspection work of pressure-resistant containers in CNG vehicles</p> <p>Aug. 1, 2012 Commenced with the qualification test and issuance of a certificate for bus drivers</p> <p>Dec. 3, 2013 Completed the construction of a high-tech test driving road</p> <p>Mar. 15, 2014 Implemented the review of the Railway Total Test Operation results implemented the approval inspection of the Railway Safety Management System</p> <p>Mar. 2, 2017 Opened the Transportation Safety Training Center in Hwasong</p> <p>Jan. 1, 2018 Promulgated the Korea Transportation Safety Authority Act. Changed the organization's name to the Korea Transportation Safety Authority</p> <p>Dec. 10 Completed the construction of self-driving car test bed (K-City)</p> <p>Jan. 1, 2019 Operated the Korea Automobile Testing &amp; Research Institute as an affiliated institution</p>	<p>Aug. 7, 2020 Implemented safety and convenience level evaluation of railway stations</p> <p>Sep. 9 Opened the Drone Qualification Research Center in Hwasong</p> <p>Oct. 5 Opened the Vehicle Inspection Station in Daejeon</p> <p>Nov. 2 Opened the Drone Education and Training Center in Shingun</p> <p>Nov. 18 Opened Korea Advanced Vehicle Inspection R&amp;D Center (KAVIC)</p> <p>May 4, 2021 Selected as an excellent institution for public data provision operation</p> <p>Jan. 29 Opened the Gangneung and Chuncheon Branch of Vehicle Inspection Office</p> <p>Jul. 1 40th anniversary since the foundation of ITS</p>

## TS CORE VALUE

The Korea Transportation Safety Authority is leading Korea's traffic safety culture based on the best talents, creative challenges, trust and cooperation in various areas of traffic safety to create a sustainable traffic safety society.

### MISSION

We pursue an efficiency of national transportation management and create a Safe Environment to make the World happier

### VISION

We open the Safe and Sustainable Future Mobility Era

### CORE VALUES

Safety first

Public Interest & Synergism

Responsibilities

Challenge & Innovation

### PURPOSE OF ESTABLISHMENT

Our purpose is to implement projects that will prevent any traffic accidents from occurring and contribute to the efficiency of transportation safety management and to protect the lives, bodies and properties of the people.

(Article 1 of the Korea Transportation Safety Authority Act)

### 2026 BUSINESS GOALS

Top 10 Traffic Safety Country in OECD

World-first commercializing in autonomous vehicle Lv 4

Reducing railroad accidents by 50%

Completion of the Drone safety management system

Top Institution Of Customer Satisfaction

### STRATEGY OBJECTIVES

Global Leader of Smart Traffic Safety

Proactive Response for a Paradigm Shift of Future Car

Providing Total solutions for Railroad Safety management

Leading an innovation of Air Mobility industry

Realizing sustainable management for public trust

# OVERVIEW



- **KOICA, established in 1991, is a grant provider under the Ministry of Foreign Affairs of the Republic of Korea.**
- **By sharing Korea's development experiences and know-how with partner countries, KOICA aims to support their sustainable growth, achieve mutual prosperity, and strengthen friendly relations.**
- **As of 2022, KOICA oversees 24.9% of Korea's total Official Development Assistance (ODA) projects and is Korea's representative grant agency, implementing 48.3% of the country's grants.**
- **From 17.4 billion won (13 million dollars) in 1991, the agency's budget has grown to 1.137 trillion won (852 million dollars) in 2022.**
- **This is in line with the Korean government's commitment to contribute to the international community and membership at the OECD Development Assistance Committee (DAC).**





# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

1. **Ordering agency** Korea International Cooperation Agency (KOICA)

2. **Project Duration** 2023. 06 - 2027. 12

3. **Project Cost** USD 13,000,000

4. **Project Object** To enhance the traffic safety of Mongolia through the advancement of vehicle inspection facilities and capacity building.

To support the improvement of air quality in Ulaanbaatar through a national policy consulting on emission gas from vehicle.

5. **Partner Country** Mongolia

Ministry of Road and Transport Development (MRTD)

National Road Transport Center (NRTC)

# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

**6. Project Partners** Korea Transportation Safety Authority (KOTSA) Korea Transport Institute (KOTI)  
Korea Road Traffic Authority (KOROAD)

### 7. Project Design

**Objective1** Policy Consulting

**Objective2** Modernization of vehicle inspection services (remodeling/modernizing equipment)

**Objective3** Establishment of a Vehicle Inspection Management System

**Objective4** Capacity building

**8. Project Area** Ulaanbaatar

MRTD/NRTC Headquarters

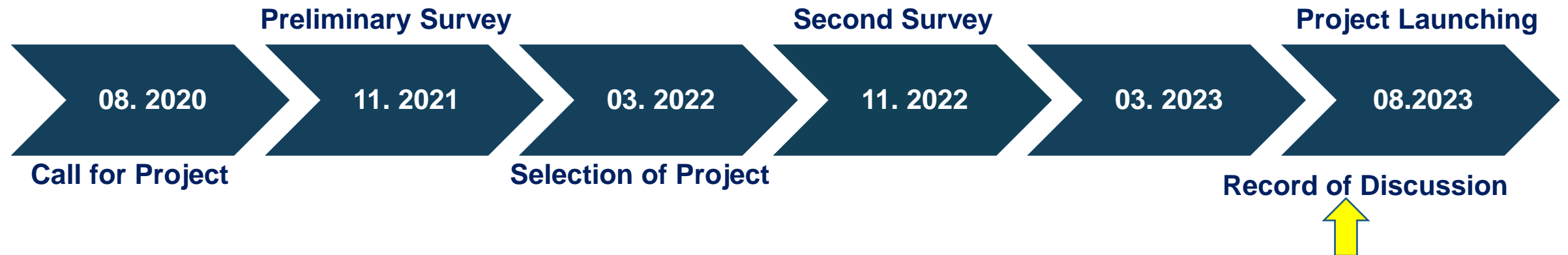
6 National Technical Vehicle Inspection Centers

# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Project Progress



# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

Current State (11.2021 Preliminary Survey)





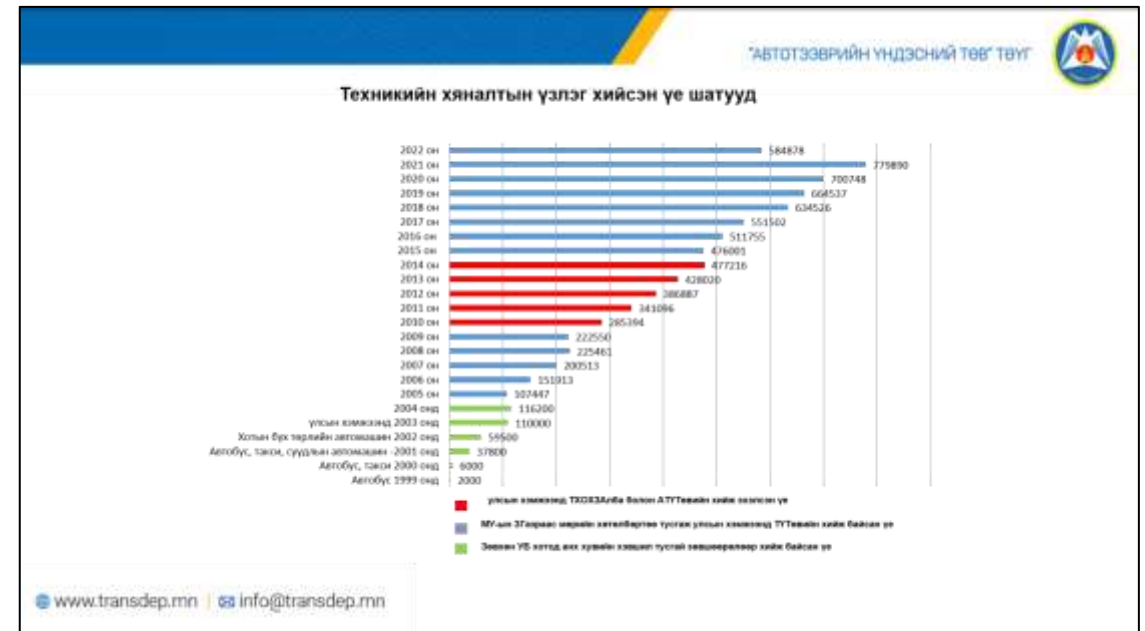
# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Current State (11.2021 Preliminary Survey)

Type	2019				2020			
	Ulaanbaatar		National		Ulaanbaatar		National	
	Units	%	Units	%	Units	%	Units	%
Passenger	417,383	73.4	667,375	64.0	447,413	72.7	715,309	62.9
Truck	78,243	13.8	203,675	19.5	81,671	13.3	211,083	18.6
Bus	11,021	1.9	19,535	1.9	16,834	2.7	36,084	3.2
Trailer	22,959	4.0	47,972	4.6	22,452	3.6	40,616	3.6
Motorcycle	5,729	1.0	46,951	4.5	9,834	1.6	67,781	6.0
Others	33,531	5.9	57,520	5.5	37,418	6.1	65,861	5.8
Sum	568,866	100.0	1,043,028	100.0	615,622	100.0	1,136,734	100.0



# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Current State (11.2021 Preliminary Survey)

Техникийн хяналтын үзлэгийн өнөөгийн байдал

“АВТОТЭЭВРИЙН ҮНДЭСНИЙ ТӨВ” ТӨҮГ

• Дэлхийн банк, нордикийн хөгжлийн сангийн зээлээр “Тээвэр хөгжүүлэх” төслийн хүрээнд Улаанбаатар хотод 3, 21 аймгийн төвд, 1 сум буюу нийт 25 техникийн хяналтын үзлэгийн төвийг байгуулж 2005 оноос ТҮТөв болон түүний үйл ажиллагааг залгамжлагчид болох Автотээврийн газар, ТХОХЗАлба одоогоор Автотээврийн үндэсний төв нь тус үйл ажиллагааг тоног төхөөрөмжийн тусламжтайгаар жилийн турш зохион байгуулан ажиллаж байна

www.tr

- In 2005, the World Bank and the Nordic Development Fund supported the establishment of an inspection laboratory.
- The facility covers PTIs of Ulaanbaatar, the capital city of Mongolia.
- Some facility repairs and replacing equipment are required from the original facilities.

# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Current State (11.2021 Preliminary Survey)



- The inspection stations subject to facility remodeling are one state-run station and one public municipal station in Ulaanbaatar.
- The inspection station consists of 2-3 lanes, and the entrance and exit are separated.
- The working environment of inspectors should be improved by facility improvement in consideration of the Mongolian climate.
- Selection of facility remodeling items for service improvement is required.

# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Current State (11.2021 Preliminary Survey)



- Since CNG buses are imported and operated for public transportation and commutes, a more precise inspection method is required.
- Considering facility remodeling, we plan on building a separate facility for CNG bus inspections.
- We plan on facility construction and scheduling inspection standards and inspection methods for CNG containers, and will carry out capacity building for acquisition of inspection technology will be annually carried out.

# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Current State (11.2021 Preliminary Survey)



- Equipment will be introduced, including equipment that needs to be replaced and totally new equipment that needs to be purchased for newly added inspections.
- As for the introduction of inspection equipment, equipment selection should be made in consideration of the local climate and usage conditions, similar to facility remodeling.
- Major equipment includes brake testers, headlamp testers, and vehicle lifts, and necessary equipment to improve inspection accuracy and reliability will be implemented.



# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

Current State (11.2021 Preliminary Survey)



- High proportion of used vehicles imported from overseas.
- Required to prepare standards for importing used vehicles that correspond to production standards.
- New inspection standards have to apply to vehicles with new technologies by the improvement of inspection standards and methods.

# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Current State (11.2021 Preliminary Survey)



- Mobile inspection vehicles are in operation for local inspections except for in Ulaanbaatar.
- Introduce specially customized mobile inspection vehicles for long-distance operation and external inspection tasks.
- A review of the selection of equipment that satisfies the performance and function suitable for the external environment is required.

# PROJECT INTRODUCTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

Current State (11.2021 Preliminary Survey)



- It is necessary to improve the efficiency of vehicle inspection by supplementing the import standards for used vehicles.
- To strengthen exhaust inspections, the inspection standards must be raised, and cooperation with the Mongolian government is required to enhance inspection precision.

# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Tasks to be accomplished

- Complementing the system to improve the management of imported used vehicles that lack requisite information for vehicle inspection.
- Improvement and modernization of work environment via the remodeling of inspection facilities and the replacement of inspection equipment.
- Reinforcement of the management function of local vehicles via the introduction of new mobile inspection vehicles.
- Establishing a system for information management of imported used vehicles and data integration to utilize for inspection.
- Strengthening of inspection functions by preparing inspection standards and methods for the introduction of new inspection items such as the introduction of CNG vehicle inspection.
- Operation of training programs to strengthen the competence of inspectors.

# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Project execution plans

- Formation of active cooperation systems with the Mongolian government and related organizations for institutionalization and practical application.
- Close review with the Mongolian government to secure local applicability of newly introduced inspection facilities and inspection equipment.
- Assignment of internal KOTSA experts for timely execution of on-site business performance.
- Advance preparation is necessary for the effective operation of capacity building programs.



# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Used Vehicle Exporting (Korea)



- The number of used cars exported out of Korea in 2021 was 467,038 units.
- 90% of the total volume is exported through Incheon Port.
- Buyers from importing countries use various shipping methods to reduce shipping costs.

# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Used Vehicle Exporting (Korea)



제작자: 현대자동차 (Hyundai Motor Vehicle)  
제작년도: 2006 차량중량: 2370(2410)kg  
중차시: E10101 공기압:   
전속중 1205(1225)kg  
후속중 1165(1185)kg  
이 자동차는 대한민국 자동차관리법령에 적합하게 제작되었습니다.  
차대번호: KMHSJ81WP6U070550  
차종: 승용차 차명: SANTAFE  
변속기: R 차축: S 도장: 6M 외장: WK  
자동차 관리 번호: A08FM00058-0009-1305



# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Used Vehicle Exporting (Korea)



# PROJECT PROMOTION

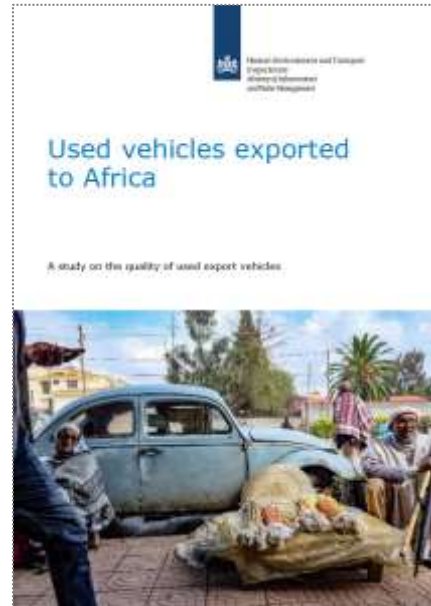


## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

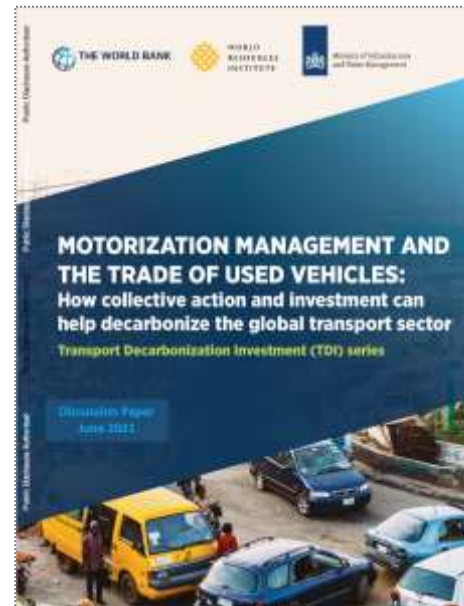
### Improvement Activities



Addressing The Used Vehicles Market, 2019



Used Vehicles exported to Africa, 2020



Motorization Management and The Trade of Used Vehicles, 2021



Used Vehicles and The Environment, 2021



Safer and Cleaner Used Vehicles, 2021

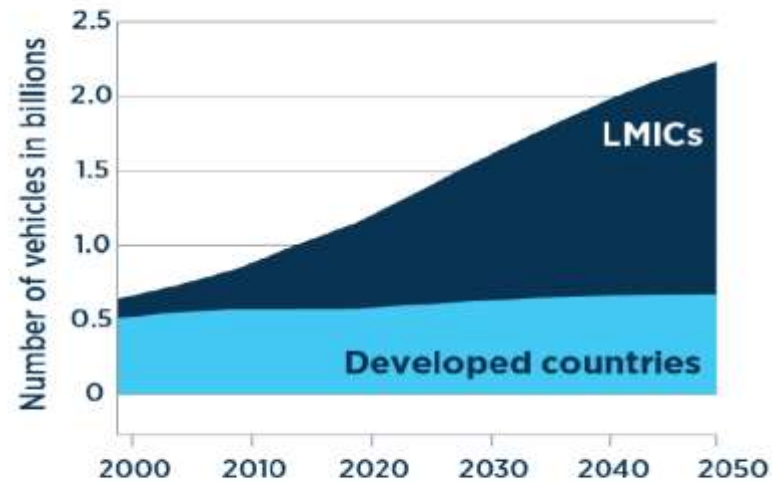
# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

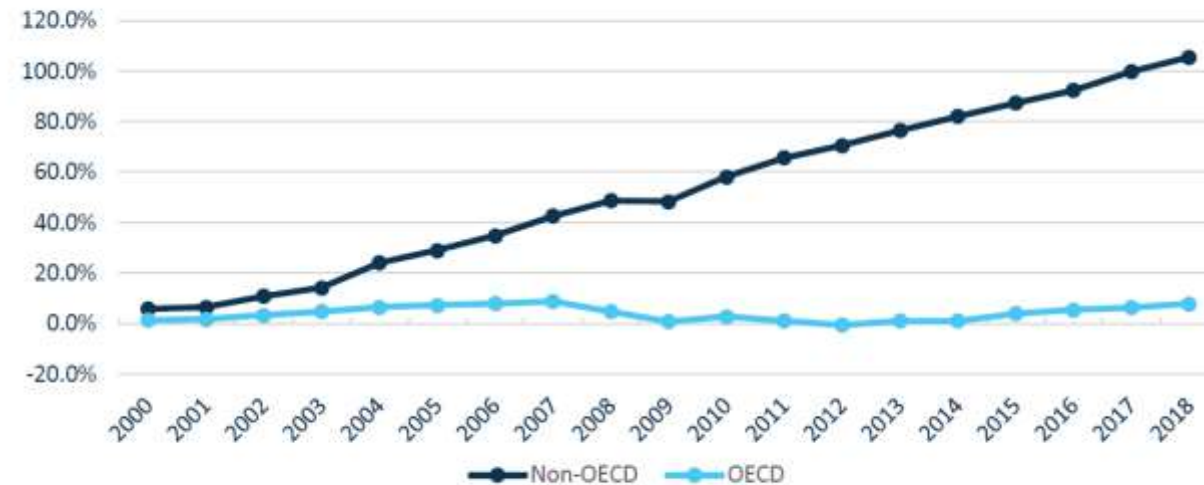
### Current State (11.2021 Preliminary Survey)

Figure 2. Actual and projected growth in total vehicles (billions) in LMICs and high-income developed (OECD) countries, 2000-2050



Source: UNEP 2020.

Figure 1. Growth in transport greenhouse gas emissions 2000-2018



Source: Authors' calculation based on data from ClimateWatch 2021.

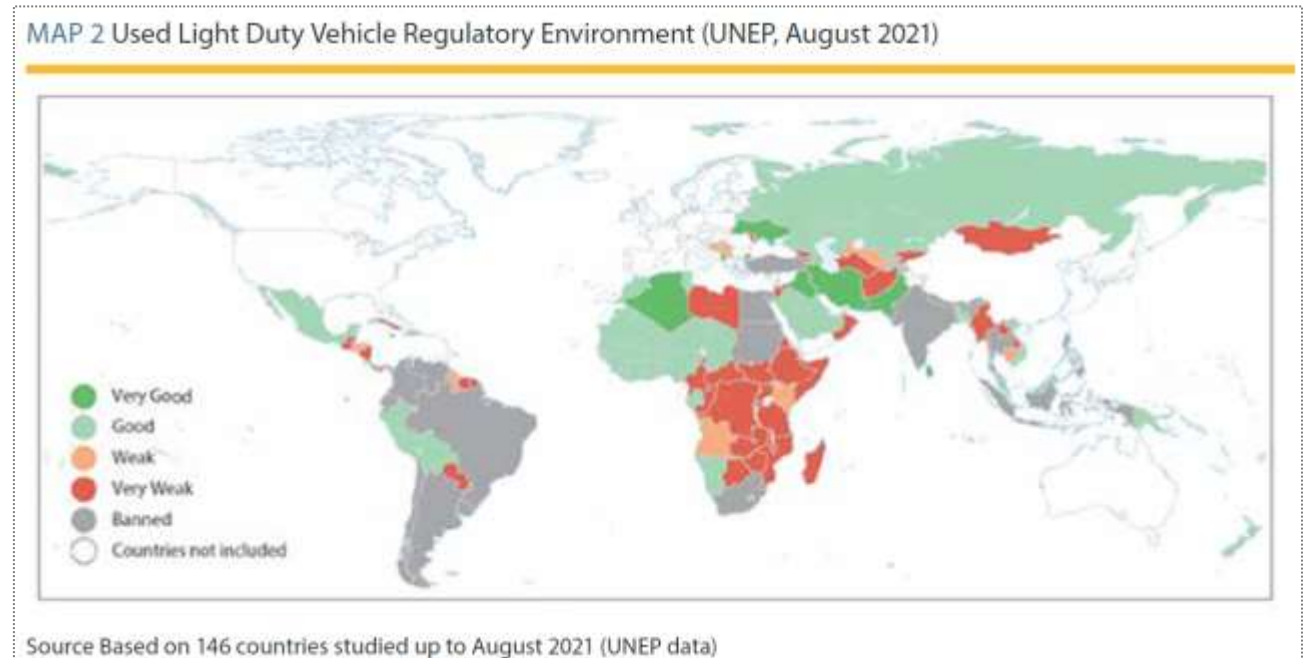
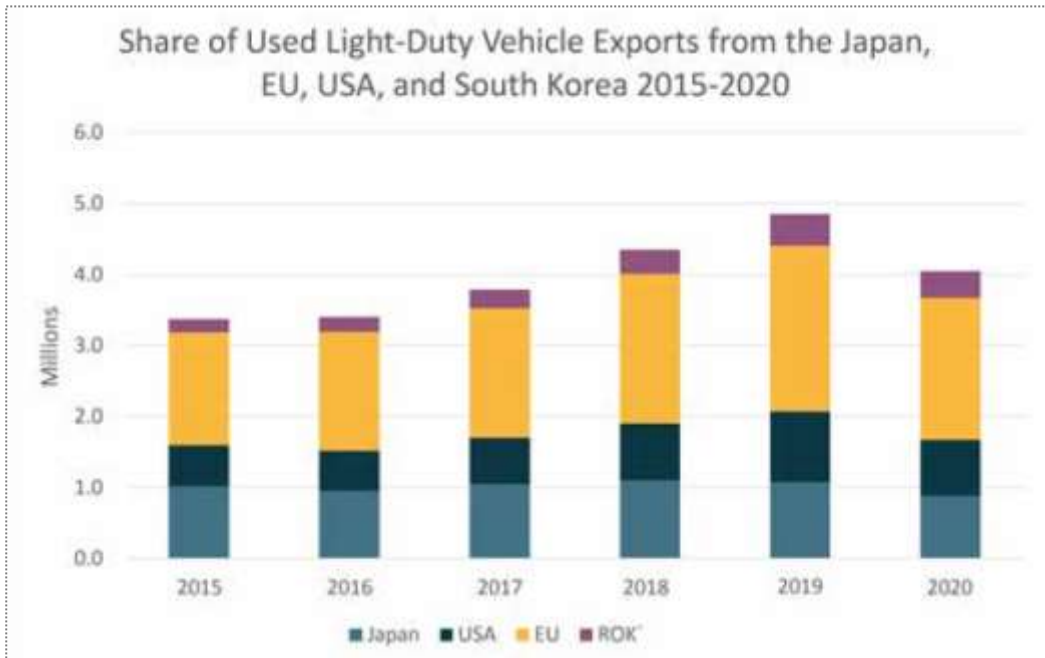


# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Current State (11.2021 Preliminary Survey)



# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

Proposal for an Informal Working Group on Safer and Cleaner Used and New Vehicles for Developing Countries”

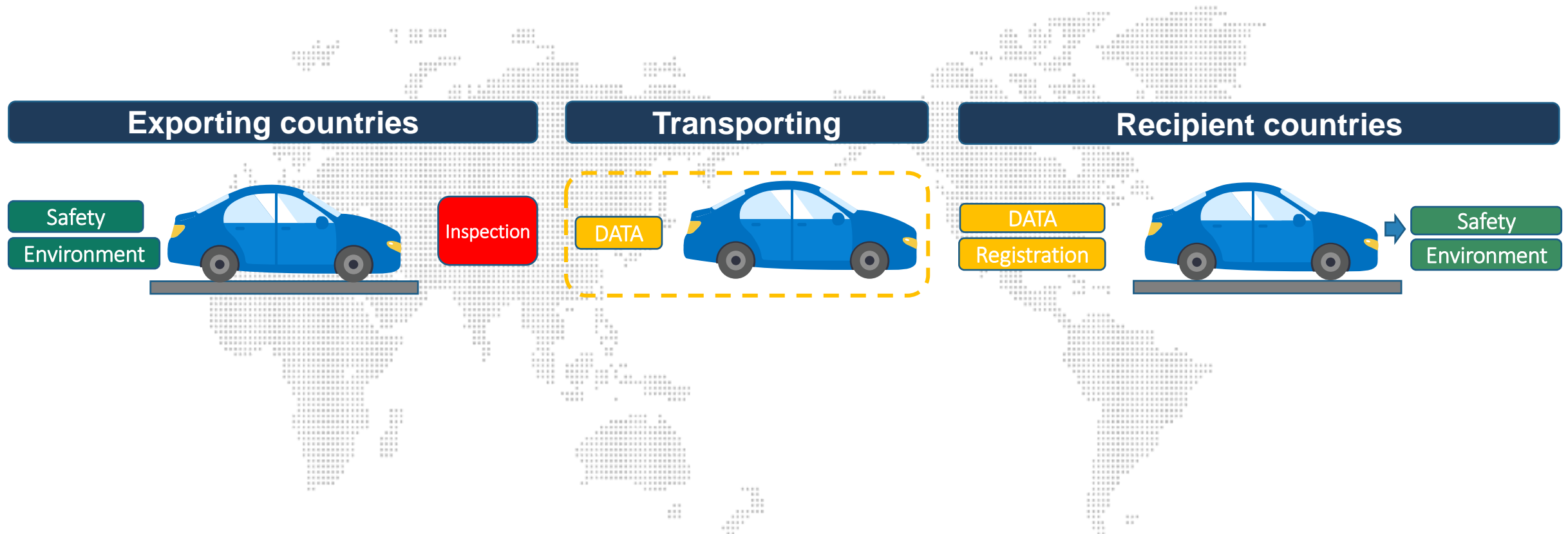
### Introduction

1. At the 185<sup>th</sup> session of WP.29 held in November 2021, UNECE secretariat presented the latest activities of the UNRSF “Safer and Cleaner Used Vehicles for Africa” project and invited the World Forum to consider the establishment of an IWG to take a lead role in handling technical issues related to this topic.
2. ECE/TRANS/WP.29/1161, para.112 &113 contains WP.29 decision to establish an Informal Working Group (IWG) to take a leading role in vehicle regulatory elements in the areas of safety and environmental protection for both new and used vehicles for countries in different economic situations. This decision will require the IWG to use existing data, research, as well as UN Regulations / UN GTRs/UN Rules and or equivalent National/Regional standards as a guidance to form further discussions, activities, and outcomes of this group.

# PROJECT PROMOTION



Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia



# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Summary of project activities

1. Policy Consulting	1-1. Legal/Institutional/Standard consulting of vehicle management
	1-2. BPR/ISP consulting for vehicle inspection management system
	1-3. Model design for public transportation safety management and policies
2. Modernization of Vehicle Inspection Services	2-1. Modernization of 2 stations (1 NRTC, 1 RTD station)
	2-2. Advanced vehicle inspection equipment (4 NRTC, 1 RTD stations)
	2-3. Mobile inspection vehicles (2)
	2-4. Training materials for vehicle inspectors
3. Establishment of a Vehicle Inspection Management System	3-1. System establishment
	3-3. Data migration & initial data establishment
	3-4. Provision of ICT equipment
4. Capacity building	4-1. Invitational training
	4-2. Local training

# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Output and outcome of the project activities

1. Policy Consulting	1-1. Establishment of a Policy Consulting Report
2. Modernization of Vehicle Inspection Services	2-1. Renovation of 2 vehicle inspection stations
	2-2. Provision of advanced equipment for vehicle inspection
3. Establishment of Vehicle Inspection Management System	3-1. Establishment of Vehicle Inspection Management System
4. Capacity building	4-1. Invitational training
	4-2. Local training



# PROJECT PROMOTION



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

### Project Plan

	2023		2024				2025				2026				2027			
	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
1. Policy Consulting																		
1-1. Legal/Institutional/Standard consulting of vehicle management																		
1-2. BPR/ISP consulting for vehicle inspection management system																		
1-3. Model design for public transportation safety management and policies																		
2. Modernization of vehicle inspection services																		
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4. Capacity building																		
4-1. Invitational training																		
4-2. Local training																		

# FUTURE PLANS



## Enhancement of Traffic Safety via Strengthening Vehicle Inspection Capacity and Improving Inspection Facilities in Mongolia

- Monitoring of related activities of CITA and member countries.
- Request for advice to analyze the vehicle inspection system and find improvements.
- Request related information for selection of inspection equipment.
- Sharing with CITA with regards to the project implementation process partnering with the Mongolian government.

# Thank you for your attention!



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