



22nd Meeting of the COMCEC TCWG

DEVELOPING INTELLIGENT TRANSPORT SYSTEMS IN OIC MEMBER COUNTRIES

Conceptual and Methodological Framework of the Handbook

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01 Introduction

Intelligent Transportation Systems



The
advancements in
information and
communication
technologies (ICT)

The prominence
of road
transportation
systems

Results in
sustainable and
safe
transportation

Intelligent Transportation Systems

01

ITS as a developing concept integrates

- Emerging information
- Communications
- Computers
- Other technologies with advanced transportation theories

ITS uses

- Big data
- Artificial intelligence (AI)
- Electrical vehicles
- Connected transportation technologies



Benefits of ITS Usage in Transportation

01

The importance & benefits of sustainable transport is also recognized by

- Istanbul Programme of Action,
- The Vienna Programme of Action,
- The **SAMOA** Pathway,
- The Sendai Framework for Disaster Risk Reduction,
- The New Urban Agenda



Benefits of ITS Usage in Transportation

Reduce carbon emissions by optimizing mobility management

Manage congestions and increase safety along the network

Provide users with digital services that makes the transport system more inclusive and sustainable

Social impact for communities and cities

Transport information is necessary

- to create **data-based control systems**
- to **automate operations**



Sustainable Transport

01

UN 2030 Agenda
Sustainable Development

⑩ Sustainable transport is related to :

- food security, health, energy, economic growth, infrastructure, and cities and human settlements

⑩ Transport for climate action (Paris Agreement):

- Reduction of global **greenhouse gas emissions** come from transport



Development and Safe Transport

Improve traffic flow by alleviating congestion and promptly responding to incidents

Offer early warnings for potential crashes

Mitigate the impacts of factors contributing to accidents

Improve transportation safety



02 Project Objectives & Outputs

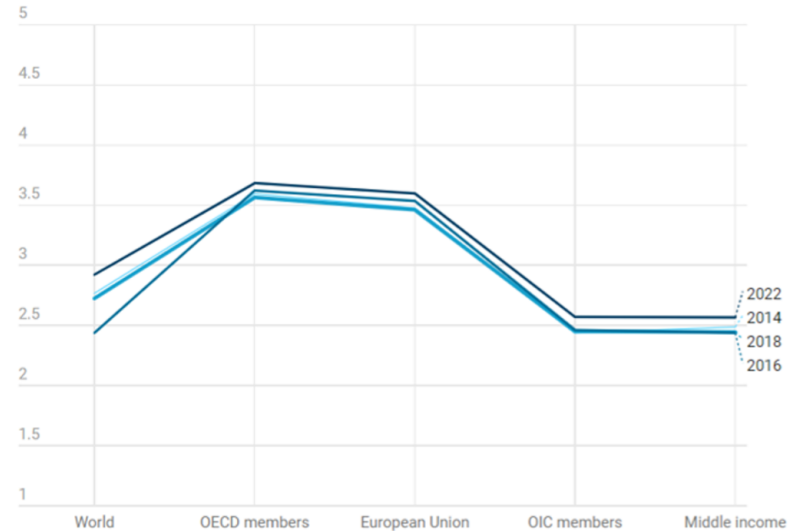
The Significance of the Project

ITS can

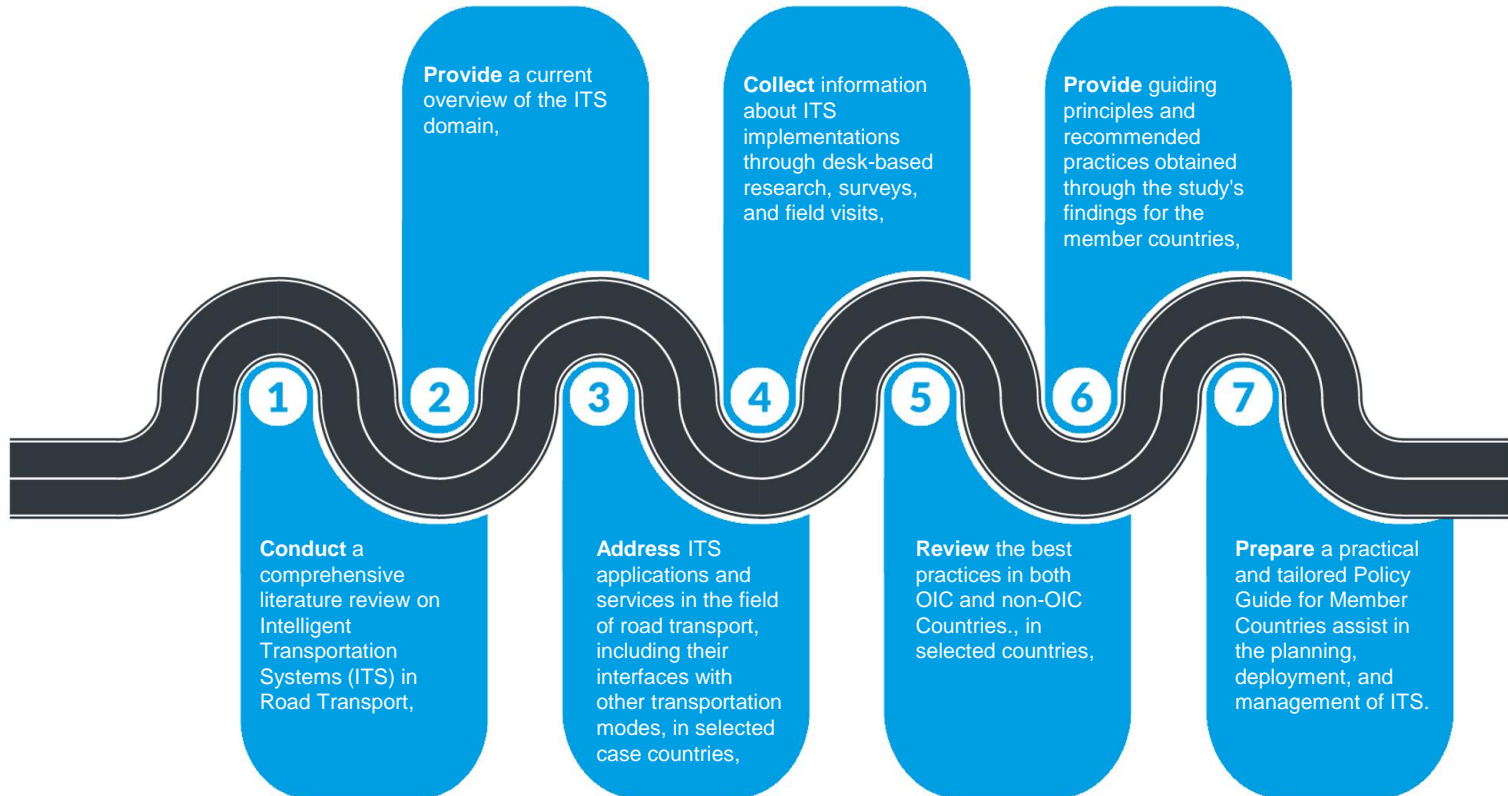
- Enhance the efficient and safe movement of people
- Elevates the quality of transportation and logistics supply chains

OIC Member Countries have lower score compared to world average in **Logistics Performance Index (World Bank)**.

[Logistics performance index: Quality of trade and transport-related infrastructure (1=low to 5=high)]



Project Objectives



Project Outputs

The Handbook will cover four main chapters:

1. Introduction

- An up-to-date overview of the ITS field
- Current ITS applications and services in the field of road transport

2. Guiding Principles and Recommended Practices

- Guiding Principles
 - Phase 1:** Planning and Development
 - Phase 2:** Implementation and Operationalization
 - Phase 3:** Monitoring and Evaluation
- Recommended Practices
- Case Studies

3. Policy Recommendations

4. Annexes



03 Project Components

Research Methodology

- Desk-based comprehensive literature review
- Online surveys and interviews
- Descriptive and/or empirical analysis

01

Case Study Selection Criteria

02

Case Countries

- Desk-based research within OIC: Türkiye and Iraq
- Desk-based research, example of best practice, non-OIC: the USA
- Field Visit: Malaysia and the Gambia

03

1. Desk-based research: A comprehensive literature review

2. Online surveys and interviews: Up-to-date information and data will be collected from government authorities as well as stakeholders in the transport sectors of as much as possible number of the OIC Member Countries via phone/online interviews, online meetings, surveys, enquiries, and questionnaires

3. Descriptive and/or empirical analysis: An analysis will be made to the data collected from research and the findings will be reported

Case Study Selection Criteria

3 main criteria are applied in selection of five case countries that will represent:

OIC Member Countries and one non-OIC Country

Different geographic regions (according to official three Regional Groups of the OIC Member Countries)

Different economic and social conditions

Case Countries



From OIC

- Türkiye
- Iraq
- Malaysia (Field Visit)
- The Gambia (Field Visit)



Non-OIC

- The US



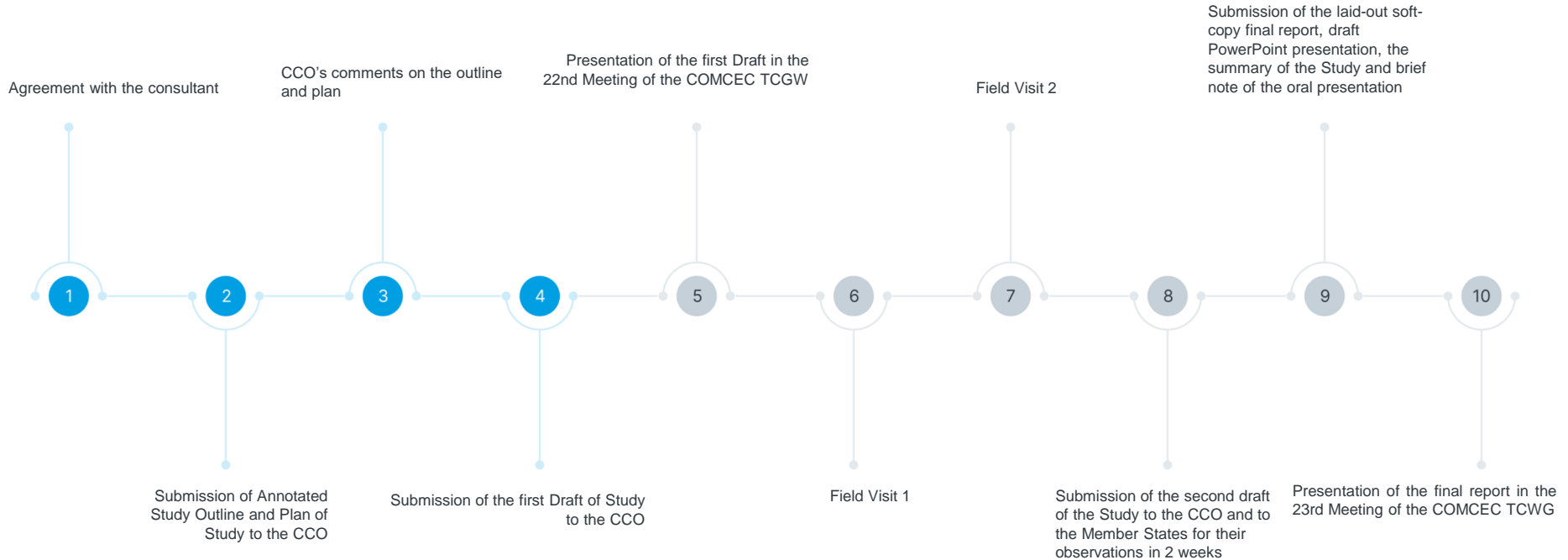
Case Countries

Case Country	OIC Country	Geographical Region	Socio-economic Condition	GDP per capita 2022
Malaysia	Yes	Asian	middle income	11,972 USD
Türkiye	Yes	Asian	middle income	10,629 USD
Gambia	Yes	African	underdeveloped	825 USD
Iraq	Yes	Arab	oil exporting	5,937 USD
USA	No	N/A	developed	76,343 USD



04 Upcoming Submissions & Events

Upcoming Submissions & Events



Thank You

Do you have any questions?

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