

# Benchmarking Study for Transport Infrastructure Construction Costs



WP.5/GE.4 (10th session)  
Group of Experts  
on Benchmarking Transport Infrastructure Construction Costs  
Geneva, 30/01/2020

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# The Objectives and Targets of the Assignment



## Country Engagement

Coordination with Economic Cooperation Organization to engage national focal points/consultants for Governments involved in the project



## Regional Workshop

a final workshop in Istanbul to present the data and final findings.



## Benchmarking Study

for transport infrastructure construction costs of road, rail, inland waterways, ports, logistics centres/intermodal terminals

# Key Transport Infrastructure Targeted for Benchmarking Costs:



**Road**



**Intermodal Terminals**



**Inland Waterways**



**Railways**



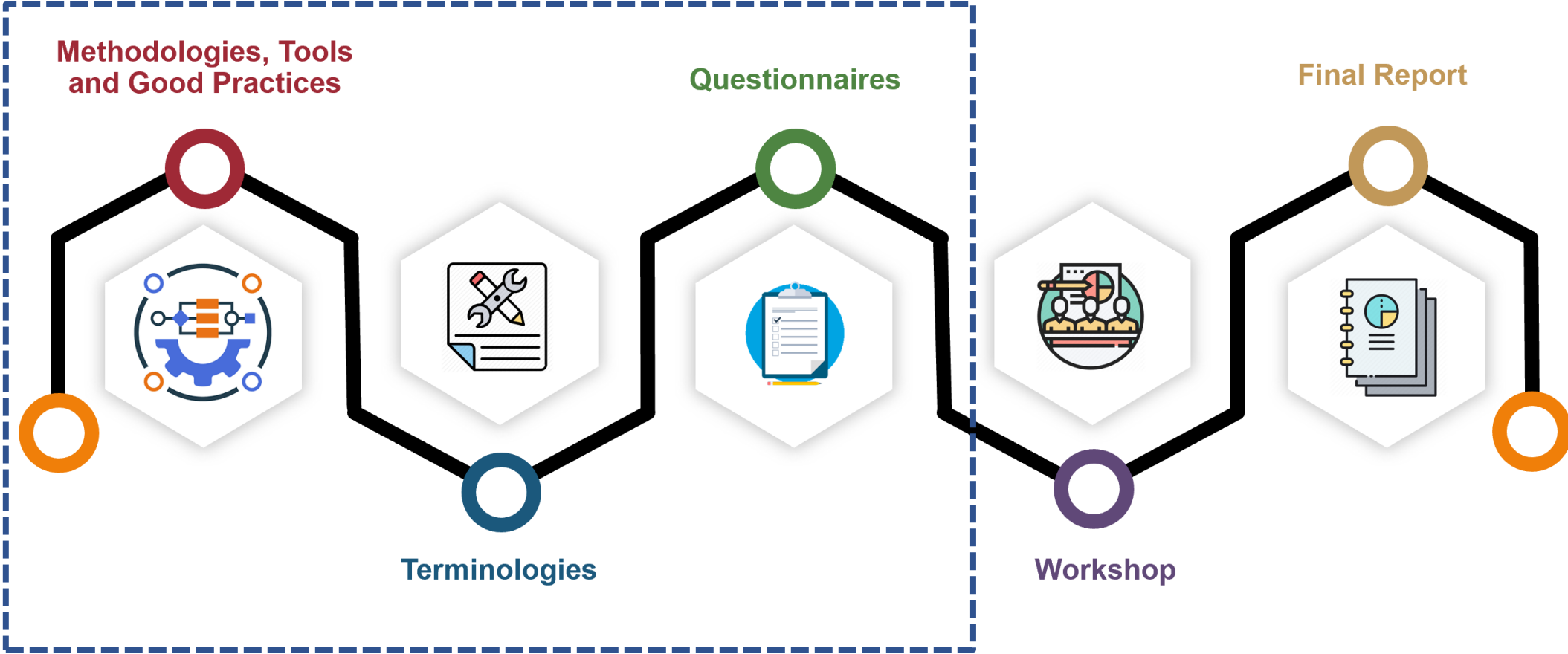
**Ports**

# Participation by the Economic Cooperation Organization Member Countries — From Albania to Pakistan



# The Project Deliverables—Reporting Best Practices, Terminologies and Good Practices for Benchmarking the Infrastructure Construction Costs

# Questionnaires designed to cater data aspects of methodologies & good practices along with terminologies & construction costs



Questionnaires circulated to the National Focal Points by the ECO Secretariat. Awaiting Responses.





# Questionnaire on Benchmarking Road Transport Infrastructure Construction Costs

## Road Class Type

High Capacity Roads  
Motorways-Expressway

Medium Capacity Roads  
Primary Roads

Medium Capacity Roads  
Secondary Roads

## Road Work Type

Resurfacing

Reconditioning

Resurfacing by  
Strengthening

Reconstruction

Pavement  
Replacement

Expansion  
(Capacity  
Improvement)

## Social and Economic Indicators

Road Length

Annual Investment Budget  
of Roads

Bridge Length

Annual Road Investment  
by PPP

Tunnel Length

Primary Roads  
per 1000sqkm

Annual Constructed Roads  
(D.C./S.C.)

Secondary Roads  
per 1000sqkm

Annual Constructed  
Tunnels in Length

Design Cost as  
construction cost

Annual Constructed  
Bridges in Length

## Tunnels and Bridges

Road Infrastructure  
Projects

Single Carriageway  
Concrete Roads

Double Carriageway  
Concrete Roads

Single Carriageway  
Asphalt Roads

Double Carriageway  
Asphalt Roads



# Questionnaire on Benchmarking Rail Transport Infrastructure Construction Costs







# Questionnaire on Benchmarking **Inland Transport Structures (Ports) Construction Costs**

- Hydrotechnical Infrastructure
- Quay
- Road Infrastructure
- Rail Infrastructure
- Sewage Infrastructure
- Terminals
- Fire Safety
- Conveyor
- Cold Storage
- ...



**New Construction**

**Upgrade**

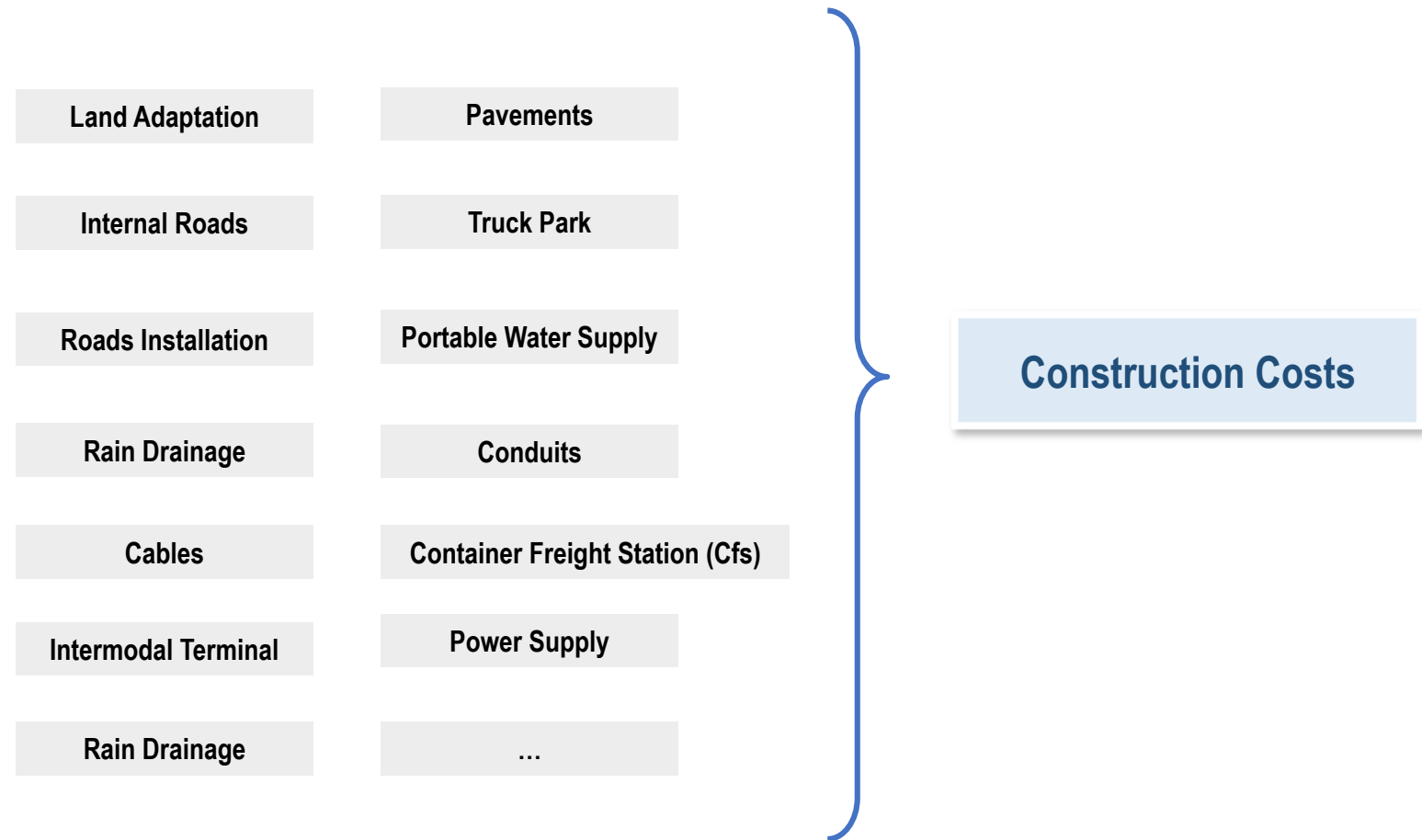
**Renewal**

## **Social and Economic Indicators**

GNP	Annual Investment Budget
Population	Annual Investment by PPP
Surface Area	Design Cost as construction cost
Density	....



# Questionnaire on Benchmarking **Intermodal Transport Structures Construction Costs**





# Questionnaire on Benchmarking **Inland Waterways** Construction Costs

- Land Expropriation
- Mobilization
- Engineering Works
- Canal Excavation
- Auxiliary Structures
- Stream Connections
- Canal Operation
- ...

**Construction Costs**

## **Social and Economic Indicators**

GNP	Annual Investment Budget
Population	Annual Investment by PPP
Surface Area	Design Cost as construction cost
Density	....

# QUESTIONS?

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