

Questionnaires on Benchmarking Transport Infrastructure Construction Costs for Inland Waterways and Ports

Group of Experts on Benchmarking Transport Infrastructure Construction Costs

Tenth session

30-31 January 2020

Victoria IVANOVA, UNECE



Sixty-third session of the Working Party on Inland Water Transport (SC.3)

6-8 November 2019

“102. SC.3 took note of the presentation by Mr. R. Janssens, the secretary of the Expert Group of Experts on Benchmarking of Transport Infrastructure Construction Costs (GE.4) about the progress made by the Group of Experts in collecting and analysing data for benchmarking inland transport construction costs.

103. SC.3 decided to :

(a) provide feedback on the draft questionnaires for inland waterways and ports as prepared by the Group of Experts, by 20 December 2019, for submission and the final adoption by the tenth meeting of GE.4 on 30 and 31 January 2020;

(b) provide information on the models, methodologies, tools and good practices used for evaluating, calculating and analysing construction costs of inland waterways and ports for the tenth meeting of GE.4.” (ECE/TRANS/SC.3/210)

- On 15 November 2019, the secretariat forwarded the questionnaires on inland waterways and ports to member States
- Answers and comments were received from Austria, Croatia and Slovakia.

Feedback on the Questionnaire on Benchmarking Waterways Transport Infrastructure Construction Costs

- Questions refer to the construction of new waterways and not to the maintenance, upgrading or improvement of existing waterways
- The definition of the term “Waterway Infrastructure” is needed
- The questionnaire focuses on canals for sea-going vessels and not on inland waterways (yacht harbours, protection from sea filling areas)
- Clarification on the units to assess the annual constructed Waterways Infrastructures (Average of 2013-2017)“ (km, IWW capacity, costs etc.)
- General questions such as GNP, population, surface area may be withdrawn

Additional cost items for consideration (construction of new waterway)

- Construction of navigable canals: other engineering works (remedial work, hydrographic surveys etc.)
- Canalization of rivers
- Construction of permanent structures: bridges (fixed, movable); weirs, bank protection structures; flood prevention and control structures; locks and lock basins, ship lifts, inclined panels, tunnels, aqueducts and other types of crossings; dams, reservoirs and power plants, etc. It may include design, construction works (reinforced concrete, stone, gravel, metal, wooden structures); installation works; electricity and safety infrastructure etc.
- Radio communication and equipment
- Onshore reception facilities for wastes generated by vessels

Additional cost items for consideration (waterway rehabilitation and maintenance)

- Fairway maintenance works to ensure the minimum fairway parameters: dredging, water level gauges, riverbed surveys, sweeping
- Permanent structures: regular maintenance, surveys, remedial works, upgrading
- Improvement of bank and flood protection
- Marking of the fairway
- Fleet for sounding, surveys and dredging

Questionnaire on Ports

- The term “inland transports” needs clarification
- The questionnaire is focused on a seaport, therefore, seaport elements are included while some elements of inland ports are missing (outer and inner roadsteads/anchorages, riverboat stations)
- General questions such as GNP, population, surface area may be withdrawn

GNP (US\$) (end of 2017)	-
Population (end of 2017)	-
GNP per Capita (US\$) (end of 2017)	-
Surface Area (km ²)	-
Density (End of 2017) person/km ²	-
Number of inland port construction projects (end of 2017)	
Annual Investment budget for inland port construction (US\$) (2017)	
Portion of investment in inland ports as per overall investment in inland transport infrastructure (Average of the last five years (2013-2017) (US\$)	
Annual Investment Budget for inland port construction as Percentage of GNP (%) (2017)	
Annual constructed Inland Transport Infrastructure (Average of 2013-2017)	
Design Cost as Percentage of Construction Cost (%) (2017 Prices)	

Next steps

- Finalization and approval of the questionnaires by WP.5/GE.4
- Consideration at the 56th session of SC.3/WP.3 (12 to 14 February 2020)
- Collection of data from member States
- Deadline for answers end of April 2020

Thank you for your attention!

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