TC ABSTRACT

I. Basic Project Data

▪ Country/Region:	REGIONAL/IDB
▪ TC Name:	Study for Tunnel Operation and Risk Management
▪ TC Number:	RG-T3026
▪ Team Leader/Members:	LEANO, JUAN MANUEL (INE/TSP) Team Leader; CASTRO LANCHARRO, BORJA (INE/TSP); KIM, MINKYUNG (INE/TSP); TAVERAS MARTE, ALBA (INE/TSP); JAIME RAMIREZ, MARGIE-LYS (LEG/SGO); LUTZ, LIZA M. (LEG/SGO); SZARFER, GABRIELA (CSC/CAR); FRUNGILLO, LETICIA MARICEL (CSD/RND); BENITEZ, CAROLINA (INE/TSP); GOMEZ CARUSO, MARIA SOLEDAD (CSC/CAR); ORDEIX, MARIA CECILIA (CSC/CAR)
▪ Taxonomy:	Research and Dissemination
▪ Number and name of operation supported by the TC:	N/A
▪ Date of TC Abstract:	24 Nov 2017
▪ Beneficiary:	Regional
▪ Executing Agency:	INTER-AMERICAN DEVELOPMENT BANK
▪ IDB funding requested:	$ 500,000.00
▪ Local counterpart funding:	$ 0.00
▪ Disbursement period:	24 months
▪ Types of consultants:	Individuals; Firms
▪ Prepared by Unit:	Transport
▪ Unit of Disbursement Responsibility:	Country Office Argentina
▪ TC included in Country Strategy (y/n): ▪ TC included in CPD (y/n):	No No
▪ Alignment to the Update to the Institutional Strategy 2010-2020:	Productivity and innovation ; Economic integration

II. Objective and Justification

2.1 Support the LAC countries with operational and technical knowledge on tunnel operation and risk management during the operational stage of tunnel projects

2.2 There are many essential factors in Megaprojects including cost overrun, future traffic volume, public benefit, etc. There have been many studies performed and currently performing to control the cost overrun, forecast traffic volume more accurately, calculate the benefit without missing, etc. However, additionally, there are some other operational and risk management factors that we must consider during the post preparation and construction stage. These factors need actual experience not only on routine operation but also on disaster management, which is sometimes not prepared in depth. This study will include the information that all technical staff and policy makers should consider before the final setting of the technical design and financial structure of the projects. As a result, the TC will improve: (i) logistic network efficiency; (ii) transport of goods and people; (iii) connectivity between countries, and (iv) access to markets through making the tunnels more safe and cost efficient in life cycle cost of the project.

III. Description of Activities and Outputs

3.1 The overall activities financed by this TC include: (i) the development of a case study from Europe and its recommendations; ; (ii) the development of a case study from Asia

& its recommendations, and Benchmark study of mega tunnels in Korea ; and (iii) Workshops performed by a consulting firm

3.2 **Component I: Component 1. Case study from Europe on Operation & Risk Management .** This component will finance case study and recommendations on Operation and Risk Management from experiences of Europe, the case studies will analyze the experience on mega tunnel operations of at least three European countries such as Laerdal (24km, in Norway), St. Gotthard (16km, in Switzerland) and Arlberg (13km, in Austria). The main goal of this component is to get information and experiences from each case and recommendations on future tunnel projects in LAC.

3.3 **Component II: Component 2. Case study from Asia on Operation & Risk Management and Benchmark study of mega tunnels in Korea .** This component will finance a benchamark study in Korea, case studies and recommendations on operations and risks management from experiences in Asia. The case studies will analyze the experience on mega tunnel operations of at least three Asian countries .The main goal of this component is to get information and experiences from each case and recommendations on future tunnel projects in LAC.

3.4 **Component III: Component 3.Administration & Dissemination .** This component will finance administration work and dissemination of two components; component 2 & 3.

IV. Budget

Indicative Budget

Activity/Component	IDB/Fund Funding	Counterpart Funding	Total Funding
Component 1. Case study from Europe on Operation & Risk Management	$ 180,000.00	$ 0.00	$ 180,000.00
Component 2. Case study from Asia on Operation & Risk Management and Benchmark study of mega tunnels in Korea	$ 270,000.00	$ 0.00	$ 270,000.00
Component 3.Administration & Dissemination	$ 50,000.00	$ 0.00	$ 50,000.00

V. Executing Agency and Execution Structure

5.1 This TC will be executed by the Inter-American Development Bank (IDB) through its INE/TSP in conformity with the Guidelines for Technical Cooperation Products (GN-2629-1, Appendix 10) which mentions that the Bank is eligible to be the executing agency for a research and dissemination technical cooperation.

5.2 The procurement of consulting services will be carried out by the IDB in accordance with the Policies for the Selection and Contracting of Consulting Firms in Bank-executed Operational Work (GN-2765-1).

VI. Project Risks and Issues

6.1 There are no risks identified for this TC.

VII. Environmental and Social Classification

7.1 The ESG classification for this operation is "undefined".