

Selection process PE-T1603-P0XX

TERMS OF REFERENCE

Consulting Service for the Diagnosis and Conceptual Design of Intelligent Transport Systems (ITS) for Subnational Roads

Perú

PE-T1603

Technical Cooperation Number

<https://www.iadb.org/es/project/PE-T1603>

“Support for the intelligent transport systems implementation on subnational roads”

1. Background and Justification

- 1.1. The Regional Competitiveness Road Infrastructure Program (Proregión), financed by the Inter-American Development Bank (IDB) through operations PE-L1252 and PE-L1279, aims to improve regional connectivity in Peru by rehabilitating, upgrading, and maintaining the Departmental Road Network (RVD). These interventions are designed to enhance access to logistics corridors, facilitate the movement of people and goods, and strengthen infrastructure resilience to climate change.
- 1.2. In this context, Technical Cooperation PE-T1603 was approved as operational support to complement the implementation of the Proregión program, with a focus on the sustainability of maintenance activities for Feeder Road Corridors (CVA) executed by Provías Descentralizado (PVD), and to support their future transfer to Regional Governments (GORE).
- 1.3. The objective of this TC is to strengthen institutional frameworks and regional capacities, and to introduce Intelligent Transportation Systems (ITS) on subnational roads. These tools will enable more efficient, safer, and data-driven management throughout the road maintenance lifecycle. The TC also incorporates cross-cutting themes such as gender, diversity, environmental sustainability, and digital inclusion, promoting the active participation of women and persons with disabilities in maintenance activities and training programs.
- 1.4. The TC is executed by the IDB through the Transport Division (INE/TSP), in coordination with the Bank's Country Office in Peru (CAN/CPE), and includes the contracting of consulting and non-consulting services for the development of studies, designs, operational tools, and institutional strengthening activities.

2. Objectives

To conduct a diagnostic study and develop the conceptual and methodological design of Intelligent Transportation Systems (ITS) applicable to subnational roads in Peru, identifying the technologies and systems required to improve road maintenance management, safety, and efficiency.

3. Scope of Services

3.1. The scope of this consultancy includes:

- a) Conducting a technical diagnosis of the current state of road maintenance management on subnational roads.
- b) Identifying opportunities for the application of ITS technologies in subnational road maintenance.
- c) Proposing a conceptual and methodological design for ITS solutions applicable to the Departmental Road Network (RVD).
- d) Preparing a technical report with the diagnosis, recommendations, and conceptual design of ITS systems.

4. Key Activities

La firma consultora se encargará como mínimo de las siguientes actividades:

4.1. Activity 1: Work Plan

The consulting firm will submit a Work Plan for review and approval by the IDB and the Ministry of Transport and Communications (MTC). This Plan must include the methodology for developing the different stages of the consultancy, the documentation and/or information sources to be used, and the activities corresponding at minimum to those described in these Terms of Reference. A detailed schedule of activities will be included, along with the delivery dates for interim and final outputs.

4.2. Activity 2: Diagnostic Assessment

Conduct a technical assessment of the current state of road maintenance management in subnational roads, identifying gaps, challenges, and opportunities for ITS integration.

4.3. Activity 3: ITS Opportunities Mapping

Identify and evaluate potential ITS technologies applicable to the Peruvian subnational road context, considering international best practices and local constraints.

4.4. Activity 4: Conceptual and Methodological Design

Develop a conceptual and methodological design for ITS implementation, including

system architecture, functional components, and integration pathways.

4.5. Activity 5: Summary of Findings

Prepare a summary document with key findings and recommendations, if deemed necessary to support subsequent components.

5. Expected Outcome and Deliverables

- First Deliverable: Work Plan
- Second Deliverable: Activity 2
- Third Deliverable: Activity 3
- Fourth Deliverable: Activities 4 and 5

6. Project Schedule and Milestones

The total duration of the services will be 3 months, according to the following schedule:

Deliverable	Delivery Deadline
First Deliverable	7 calendar days after the contract is signed
Second Deliverable	30 calendar days from the approval of the first deliverable
Third Deliverable	60 calendar days from the approval of the second deliverable
Fourth Deliverable	60 calendar days from the approval of the third deliverable

7. Reporting Requirements

7.1. The consultancy execution period shall not exceed nine (09) months, counted from the day after the contract is signed, considering the scope of the requested activities and the resolution of any comments or observations made by the Provias Descentralizado and the Inter-American Development Bank (IDB).

8. Acceptance Criteria

8.1. The fulfillment of this service will be supervised by IDB specialists, who will monitor the approach, methodology, and results of the consultancy. Technical coordination will be carried out with Provias Descentralizado of the Ministry of Transport and Communications (MTC).

8.2. All deliverables must clearly identify and develop, at a minimum, the proposed key activities. The consulting firm must submit all relevant information developed in support of the deliverables.

9. Consulting Firm and Team Requirements

9.1. Firm Requirements:

- Minimum of 7 years of experience in transport infrastructure and Intelligent Transportation Systems (ITS).
- At least 3 completed projects involving ITS diagnostics or conceptual design for public infrastructure.

9.2. Team Requirements:

- Team Leader / ITS Specialist: Master's degree in Transport or Systems Engineering. At least 5 ITS-related studies completed.
- Transport Engineer: Bachelor's or Master's degree in Civil or Transport Engineering. At least 3 studies in road maintenance or operations.
- Institutional Analyst: Degree in Public Administration, Political Science, or related field. At least 2 institutional diagnostics or public sector reform projects.

10. Other Requirements

10.1. After the contract is signed, the consulting firm will be required to maintain confidentiality regarding any information handled, provided, or developed between the firm and the contracting party during the consultancy.

11. Supervision and Reporting

11.1. The contract will be supervised by Rafael Capristan (rcapristan@iadb.org), Senior Transport Specialist at the IDB. All communications should also be copied to Patricia Illacanchi (patriciaill@iadb.org) and Maryori Lázaro (maryoril@iadb.org).

11.2. The approval of the consultancy deliverables will be carried out by the IDB. Additionally, the endorsement of Provias Descentralizado of the Ministry of Transport and Communications (MTC) will be required.

12. Schedule of Payments

12.1. Payment conditions will be based on the project milestones or deliverables. The Bank does not expect to make advance payments under consulting contracts unless a significant amount of travel is required. The Bank expects to receive the most competitive cost proposal for the services described in this document.

12.2. The official IDB exchange rate indicated in the SDP will be applied for any required currency conversions for payments made in local currency.

Payment Schedule	
Deliverable	%
First Deliverable	20%
Second Deliverable	20%
Third Deliverable	30%
Fourth Deliverable	30%
TOTAL	100%

Selection process PE-T1603-P0XX

TERMS OF REFERENCE

Consulting Service for the Preparation of ITS Pre-Investment Studies

Perú

PE-T1603

Technical Cooperation Number

<https://www.iadb.org/es/project/PE-T1603>

“Support for the intelligent transport systems implementation on subnational roads”

1. Background and Justification

- 1.1. The Regional Competitiveness Road Infrastructure Program (Proregión), financed by the Inter-American Development Bank (IDB) through operations PE-L1252 and PE-L1279, aims to improve regional connectivity in Peru by rehabilitating, upgrading, and maintaining the Departmental Road Network (RVD). These interventions are designed to enhance access to logistics corridors, facilitate the movement of people and goods, and strengthen infrastructure resilience to climate change.
- 1.2. In this context, Technical Cooperation PE-T1603 was approved as operational support to complement the implementation of the Proregión program, with a focus on the sustainability of maintenance activities for Feeder Road Corridors (CVA) executed by Provías Descentralizado (PVD), and to support their future transfer to Regional Governments (GORE).
- 1.3. The objective of this TC is to strengthen institutional frameworks and regional capacities, and to introduce Intelligent Transportation Systems (ITS) on subnational roads. These tools will enable more efficient, safer, and data-driven management throughout the road maintenance lifecycle. The TC also incorporates cross-cutting themes such as gender, diversity, environmental sustainability, and digital inclusion, promoting the active participation of women and persons with disabilities in

maintenance activities and training programs.

- 1.4. The TC is executed by the IDB through the Transport Division (INE/TSP), in coordination with the Bank's Country Office in Peru (CAN/CPE), and includes the contracting of consulting and non-consulting services for the development of studies, designs, operational tools, and institutional strengthening activities.

2. Objectives

- 2.1. To prepare pre-investment studies for the implementation of ITS technologies along selected Feeder **Road** Corridors (CVA) under the Proregión 1 program, including technical, economic, and operational feasibility assessments to support future investment decisions.

3. Scope of Services

- 3.1. The scope of this consultancy includes:
- a) Developing pre-investment studies for the implementation of ITS technologies along two selected Feeder Road Corridors (CVA) under the Proregión 1 program.
 - b) Assessing the technical, economic, and operational feasibility of the proposed ITS solutions.
 - c) Proposing an implementation plan that ensures operational and financial sustainability.
 - d) Preparing a technical report with the pre-investment studies and implementation recommendations.

4. Key Activities

La firma consultora se encargará como mínimo de las siguientes actividades:

4.1. Activity 1: Work Plan

The consulting firm will submit a Work Plan for review and approval by the IDB and the Ministry of Transport and Communications (MTC). This Plan must include the methodology for developing the different stages of the consultancy, the documentation and/or information sources to be used, and the activities corresponding at minimum to those described in these Terms of Reference. A detailed schedule of activities will be included, along with the delivery dates for interim and final outputs.

4.2. Activity 2: Corridor Selection and Data Collection

Confirm the two CVAs selected under Proregión 1 and collect relevant technical, operational, and socioeconomic data.

4.3. Activity 3: Feasibility Analysis

Conduct technical, economic, and operational feasibility analyses for the proposed ITS interventions in the selected corridors.

4.4. Activity 4: Pre-Investment Study Preparation

Develop the pre-investment studies, including cost estimates, implementation schedules, and risk assessments.

4.5. Activity 5: Final Report

Deliver a comprehensive report with the full pre-investment studies and recommendations for implementation.

5. Expected Outcome and Deliverables

- First Deliverable: Work Plan
- Second Deliverable: Activity 2
- Third Deliverable: Activity 3
- Fourth Deliverable: Activities 4 and 5

6. Project Schedule and Milestones

The total duration of the services will be 3 months, according to the following schedule:

Deliverable	Delivery Deadline
First Deliverable	7 calendar days after the contract is signed
Second Deliverable	30 calendar days from the approval of the first deliverable
Third Deliverable	30 calendar days from the approval of the second deliverable
Fourth Deliverable	30 calendar days from the approval of the third deliverable

7. Reporting Requirements

7.1. The consultancy execution period shall not exceed 6 (06) months, counted from the day after the contract is signed, considering the scope of the requested activities and the resolution of any comments or observations made by the Provias Descentralizado and the Inter-American Development Bank (IDB).

8. Acceptance Criteria

8.1. The fulfillment of this service will be supervised by IDB specialists, who will monitor the

approach, methodology, and results of the consultancy. Technical coordination will be carried out with Provias Descentralizado of the Ministry of Transport and Communications (MTC).

- 8.2. All deliverables must clearly identify and develop, at a minimum, the proposed key activities. The consulting firm must submit all relevant information developed in support of the deliverables.

9. Consulting Firm and Team Requirements

9.1. Firm Requirements:

- Minimum of 8 years of experience in infrastructure pre-investment studies.
- At least 3 ITS-related feasibility or pre-investment studies completed.

9.2. Team Requirements:

- **Project Coordinator:** Master's degree in Project Management, Engineering, or related field. At least 5 coordinated infrastructure or transport studies.
- **Transport Economist / Financial Analyst:** Degree in Economics, Finance, or related field. At least 3 cost-benefit analyses or feasibility studies for infrastructure.
- **ITS Engineer:** Degree in Systems or Transport Engineering. At least 3 ITS-related technical studies completed.

10. Other Requirements

- 10.1. After the contract is signed, the consulting firm will be required to maintain confidentiality regarding any information handled, provided, or developed between the firm and the contracting party during the consultancy.

11. Supervision and Reporting

- 11.1. The contract will be supervised by Rafael Capristan (rcapristan@iadb.org), Senior Transport Specialist at the IDB. All communications should also be copied to Patricia Illacanchi (patriciaill@iadb.org) and Maryori Lázaro (maryoril@iadb.org).

- 11.2. The approval of the consultancy deliverables will be carried out by the IDB. Additionally, the endorsement of Provias Descentralizado of the Ministry of Transport and Communications (MTC) will be required.

12. Schedule of Payments

- 12.1. Payment conditions will be based on the project milestones or deliverables. The Bank does not expect to make advance payments under consulting contracts unless a significant amount of travel is required. The Bank expects to receive the most competitive cost proposal for the services described in this document.

12.2. The official IDB exchange rate indicated in the SDP will be applied for any required currency conversions for payments made in local currency.

Payment Schedule	
Deliverable	%
First Deliverable	20%
Second Deliverable	20%
Third Deliverable	30%
Fourth Deliverable	30%
TOTAL	100%

Selection process PE-T1603-P0XX

TERMS OF REFERENCE

Consulting Service for the Conceptual Design of Data Management, Monitoring, and Tracking System for PVD and Regional Governments

Perú

PE-T1603

Technical Cooperation Number

<https://www.iadb.org/es/project/PE-T1603>

“Support for the intelligent transport systems implementation on subnational roads”

1. Background and Justification

- 1.1. The Regional Competitiveness Road Infrastructure Program (Proregión), financed by the Inter-American Development Bank (IDB) through operations PE-L1252 and PE-L1279, aims to improve regional connectivity in Peru by rehabilitating, upgrading, and maintaining the Departmental Road Network (RVD). These interventions are designed to enhance access to logistics corridors, facilitate the movement of people and goods, and strengthen infrastructure resilience to climate change.
- 1.2. In this context, Technical Cooperation PE-T1603 was approved as operational support to complement the implementation of the Proregión program, with a focus on the sustainability of maintenance activities for Feeder Road Corridors (CVA) executed by

Provías Descentralizado (PVD), and to support their future transfer to Regional Governments (GORE).

1.3. The objective of this TC is to strengthen institutional frameworks and regional capacities, and to introduce Intelligent Transportation Systems (ITS) on subnational roads. These tools will enable more efficient, safer, and data-driven management throughout the road maintenance lifecycle. The TC also incorporates cross-cutting themes such as gender, diversity, environmental sustainability, and digital inclusion, promoting the active participation of women and persons with disabilities in maintenance activities and training programs.

1.4. The TC is executed by the IDB through the Transport Division (INE/TSP), in coordination with the Bank's Country Office in Peru (CAN/CPE), and includes the contracting of consulting and non-consulting services for the development of studies, designs, operational tools, and institutional strengthening activities.

2. Objectives

2.1. To design a conceptual framework for a digital system that enables Provías Descentralizado (PVD) and Regional Governments to manage, monitor, and track road maintenance activities and performance indicators, supporting data-driven decision-making and transparency.

3. Scope of Services

3.1. The scope of this consultancy includes:

- a) Designing a conceptual framework for a digital system to manage, monitor, and track road maintenance activities and performance.
- b) Identifying the functional and technical requirements of the system for use by Provías Descentralizado (PVD) and Regional Governments.
- c) Proposing a data architecture and interoperability mechanisms for institutional coordination.
- d) Preparing a technical report with the system's conceptual design and specifications.

4. Key Activities

La firma consultora se encargará como mínimo de las siguientes actividades:

4.1. Activity 1: Work Plan

The consulting firm will submit a Work Plan for review and approval by the IDB and the Ministry of Transport and Communications (MTC). This Plan must include the methodology for developing the different stages of the consultancy, the documentation and/or information sources to be used, and the activities corresponding at minimum to

those described in these Terms of Reference. A detailed schedule of activities will be included, along with the delivery dates for interim and final outputs.

4.2. Activity 2: Needs Assessment

Conduct a needs assessment with PVD and selected Regional Governments to define system guidelines and user needs.

4.3. Activity 3: System Conceptual Design

Develop the conceptual design of the system, including data architecture schemes, user interface mockups, and communication mechanisms.

4.4. Activity 4: Validation Workshops

Facilitate validation workshops with stakeholders to refine the system conceptual design proposal to ensure alignment with institutional capacities.

4.5. Activity 5: Final Report

Submit a final report with the system conceptual design, recommended specifications and guidelines, and implementation roadmap.

5. Expected Outcome and Deliverables

- First Deliverable: Work Plan
- Second Deliverable: Activities 2 and 3
- Third Deliverable: Activities 4 and 5

6. Project Schedule and Milestones

The total duration of the services will be 3 months, according to the following schedule:

Deliverable	Delivery Deadline
First Deliverable	7 calendar days after the contract is signed
Second Deliverable	25 calendar days from the approval of the first deliverable
Third Deliverable	20 calendar days from the approval of the second deliverable

7. Reporting Requirements

- 7.1. The consultancy execution period shall not exceed three (03) months, counted from the day after the contract is signed, considering the scope of the requested activities and

the resolution of any comments or observations made by the Provias Descentralizado and the Inter-American Development Bank (IDB).

8. Acceptance Criteria

- 8.1. The fulfillment of this service will be supervised by IDB specialists, who will monitor the approach, methodology, and results of the consultancy. Technical coordination will be carried out with Provias Descentralizado of the Ministry of Transport and Communications (MTC).
- 8.2. All deliverables must clearly identify and develop, at a minimum, the proposed key activities. The consulting firm must submit all relevant information developed in support of the deliverables.

9. Consulting Firm and Team Requirements

9.1. Firm Requirements:

- Minimum of 6 years of experience in designing digital platforms or data systems for public infrastructure.
- At least 2 completed projects involving system design for government or transport sectors.

9.2. Team Requirements:

- System Architect: Degree in Computer Science, Systems Engineering, or related field. At least 3 digital systems designed for public or infrastructure use.
- Data Governance Specialist: Degree in Data Science, Public Policy, or related field. At least 2 data governance frameworks or digital transformation projects completed.

10. Other Requirements

- 10.1. After the contract is signed, the consulting firm will be required to maintain confidentiality regarding any information handled, provided, or developed between the firm and the contracting party during the consultancy.

11. Supervision and Reporting

- 11.1. The contract will be supervised by Rafael Capristan (rcapristan@iadb.org), Senior Transport Specialist at the IDB. All communications should also be copied to Patricia Illacanchi (patriciaill@iadb.org) and Maryori Lázaro (maryoril@iadb.org).

- 11.2. The approval of the consultancy deliverables will be carried out by the IDB. Additionally, the endorsement of Provias Descentralizado of the Ministry of Transport and Communications (MTC) will be required.

12. Schedule of Payments

- 12.1. Payment conditions will be based on the project milestones or deliverables. The Bank does not expect to make advance payments under consulting contracts unless a significant amount of travel is required. The Bank expects to receive the most competitive cost proposal for the services described in this document.
- 12.2. The official IDB exchange rate indicated in the SDP will be applied for any required currency conversions for payments made in local currency.

Payment Schedule	
Deliverable	%
First Deliverable	20%
Second Deliverable	40%
Third Deliverable	40%
TOTAL	100%

Selection process PE-T1603-P0XX

TERMS OF REFERENCE

Consulting Service for the Development of Road Maintenance and Performance Methodologies to Strengthen Operational Capacity

Perú

PE-T1603

Technical Cooperation Number

<https://www.iadb.org/es/project/PE-T1603>

“Support for the intelligent transport systems implementation on subnational roads”

1. Background and Justification

- 1.1. The Regional Competitiveness Road Infrastructure Program (Proregión), financed by the Inter-American Development Bank (IDB) through operations PE-L1252 and PE-

L1279, aims to improve regional connectivity in Peru by rehabilitating, upgrading, and maintaining the Departmental Road Network (RVD). These interventions are designed to enhance access to logistics corridors, facilitate the movement of people and goods, and strengthen infrastructure resilience to climate change.

- 1.2. In this context, Technical Cooperation PE-T1603 was approved as operational support to complement the implementation of the Proregión program, with a focus on the sustainability of maintenance activities for Feeder Road Corridors (CVA) executed by Provías Descentralizado (PVD), and to support their future transfer to Regional Governments (GORE).
- 1.3. The objective of this TC is to strengthen institutional frameworks and regional capacities, and to introduce Intelligent Transportation Systems (ITS) on subnational roads. These tools will enable more efficient, safer, and data-driven management throughout the road maintenance lifecycle. The TC also incorporates cross-cutting themes such as gender, diversity, environmental sustainability, and digital inclusion, promoting the active participation of women and persons with disabilities in maintenance activities and training programs.
- 1.4. The TC is executed by the IDB through the Transport Division (INE/TSP), in coordination with the Bank's Country Office in Peru (CAN/CPE), and includes the contracting of consulting and non-consulting services for the development of studies, designs, operational tools, and institutional strengthening activities.

2. Objectives

- 2.1. To develop operational guidelines, methodologies, and methodologies for routine road maintenance and performance monitoring, aimed at strengthening the technical and institutional capacity of Regional Governments to manage subnational road networks under performance-based schemes.

3. Scope of Services

- 3.1. The scope of this consultancy includes:
 - a) Preparing an operational guide for routine road maintenance aimed at Regional Governments.
 - b) Designing monitoring and evaluation methodology to assess service-level performance in Feeder Road Corridors (CVA).
 - c) Incorporating strategies for engaging microenterprises and promoting the participation of women and persons with disabilities throughout the maintenance lifecycle.
 - d) Preparing a technical report with the developed methodologies and implementation guidelines.

4. Key Activities

La firma consultora se encargará como mínimo de las siguientes actividades:

4.1. Activity 1: Work Plan

The consulting firm will submit a Work Plan for review and approval by the IDB and the Ministry of Transport and Communications (MTC). This Plan must include the methodology for developing the different stages of the consultancy, the documentation and/or information sources to be used, and the activities corresponding at minimum to those described in these Terms of Reference. A detailed schedule of activities will be included, along with the delivery dates for interim and final outputs.

4.2. Activity 2: Institutional and Operational Assessment

Conduct a diagnostic of the current institutional and operational practices of Regional Governments (GOREs) in routine road maintenance, including budget allocation, management models, and engagement with microenterprises.

4.3. Activity 3: Development of Operational Guidelines

Design a practical guide for routine road maintenance tailored to the capacities and responsibilities of GOREs. The guide should include:

- A performance-based maintenance model.
- Budgeting strategies.
- Recommendations for engaging micro enterprises.
- Inclusive approaches to promote the participation of women and persons with disabilities.

4.4. Activity 4: Design of Monitoring and Performance Methodology

Develop a methodology to monitor and evaluate the service-level performance of Feeder Road Corridors (CVAs), including indicators, data collection work-flows, and reporting templates.

4.5. Activity 5: Validation and Capacity Transfer

Facilitate validation workshops with PVD and selected GOREs to test and refine the methodologies and guidelines. Provide training sessions to ensure future ownership and capacity for implementation and operation.

5. Expected Outcome and Deliverables

- First Deliverable: Work Plan
- Second Deliverable: Activity 2 and 3
- Third Deliverable: Activity 4
- Fourth Deliverable: Activity 5

6. Project Schedule and Milestones

The total duration of the services will be 7 months, according to the following schedule:

Deliverable	Delivery Deadline
First Deliverable	7 calendar days after the contract is signed
Second Deliverable	45 calendar days from the approval of the first deliverable
Third Deliverable	45 calendar days from the approval of the second deliverable
Fourth Deliverable	45 calendar days from the approval of the third deliverable

7. Reporting Requirements

7.1. The consultancy execution period shall not exceed seven (07) months, counted from the day after the contract is signed, considering the scope of the requested activities and the resolution of any comments or observations made by the Provias Descentralizado and the Inter-American Development Bank (IDB).

8. Acceptance Criteria

8.1. The fulfillment of this service will be supervised by IDB specialists, who will monitor the approach, methodology, and results of the consultancy. Technical coordination will be carried out with Provias Descentralizado of the Ministry of Transport and Communications (MTC).

8.2. All deliverables must clearly identify and develop, at a minimum, the proposed key activities. The consulting firm must submit all relevant information developed in support of the deliverables.

9. Consulting Firm and Team Requirements

9.1. Firm Requirements:

- Minimum of 8 years of experience in road maintenance planning and performance monitoring.
- At least 3 completed projects involving the development of tools or guidelines for public infrastructure.

9.2. Team Requirements:

- Road Maintenance Specialist: Degree in Civil Engineering or related field. At least 5 studies or tools developed for road maintenance.
- Monitoring and Evaluation Expert: Degree in Public Policy, Engineering, or related field. At least 3 performance monitoring tools or frameworks developed.
- Social Inclusion Advisor: Degree in Sociology, Gender Studies, or related field. At least 3 infrastructure projects that included gender or diversity components.

10. Other Requirements

- 10.1. After the contract is signed, the consulting firm will be required to maintain confidentiality regarding any information handled, provided, or developed between the firm and the contracting party during the consultancy.

11. Supervision and Reporting

- 11.1. The contract will be supervised by Rafael Capristan (rcapristan@iadb.org), Senior Transport Specialist at the IDB. All communications should also be copied to Patricia Illacanchi (patriciail@iadb.org) and Maryori Lázaro (maryoril@iadb.org).

- 11.2. The approval of the consultancy deliverables will be carried out by the IDB. Additionally, the endorsement of Provias Descentralizado of the Ministry of Transport and Communications (MTC) will be required.

12. Schedule of Payments

- 12.1. Payment conditions will be based on the project milestones or deliverables. The Bank does not expect to make advance payments under consulting contracts unless a significant amount of travel is required. The Bank expects to receive the most competitive cost proposal for the services described in this document.

- 12.2. The official IDB exchange rate indicated in the SDP will be applied for any required currency conversions for payments made in local currency.

Payment Schedule	
Deliverable	%
First Deliverable	20%
Second Deliverable	30%
Third Deliverable	50%
TOTAL	100%

Selection process PE-T1603-P0XX

TERMS OF REFERENCE

Consulting Service for the Design and Implementation of Capacity-Building Program in Road
Maintenance Management for Regional Governments

Perú

PE-T1603

Technical Cooperation Number

<https://www.iadb.org/es/project/PE-T1603>

“Support for the intelligent transport systems implementation on subnational roads”

1. Background and Justification

- 1.1. The Regional Competitiveness Road Infrastructure Program (Proregión), financed by the Inter-American Development Bank (IDB) through operations PE-L1252 and PE-L1279, aims to improve regional connectivity in Peru by rehabilitating, upgrading, and maintaining the Departmental Road Network (RVD). These interventions are designed to enhance access to logistics corridors, facilitate the movement of people and goods, and strengthen infrastructure resilience to climate change.
- 1.2. In this context, Technical Cooperation PE-T1603 was approved as operational support to complement the implementation of the Proregión program, with a focus on the sustainability of maintenance activities for Feeder Road Corridors (CVA) executed by Provías Descentralizado (PVD), and to support their future transfer to Regional Governments (GORE).
- 1.3. The objective of this TC is to strengthen institutional frameworks and regional capacities, and to introduce Intelligent Transportation Systems (ITS) on subnational roads. These tools will enable more efficient, safer, and data-driven management throughout the road maintenance lifecycle. The TC also incorporates cross-cutting themes such as gender, diversity, environmental sustainability, and digital inclusion, promoting the active participation of women and persons with disabilities in maintenance activities and training programs.
- 1.4. The TC is executed by the IDB through the Transport Division (INE/TSP), in coordination with the Bank's Country Office in Peru (CAN/CPE), and includes the contracting of consulting and non-consulting services for the development of studies, designs, operational tools, and institutional strengthening activities.

2. Objectives

- 2.1. To design and implement a training program for Regional Government staff on road maintenance management with a focus on digital inclusion.

3. Scope of Services

3.1. The scope of this consultancy includes:

- a) Designing the training program for Regional Government staff including specific modules
- b) Implementing training workshops and knowledge transfer activities.
- c) Preparing a report with the training content, workshop results, and recommendations for scaling and replication.

4. **Key Activities**

El consultor individual se encargará como mínimo de las siguientes actividades:

4.1. **Activity 1: Work Plan**

The consultant will submit a Work Plan for review and approval by the IDB and the Ministry of Transport and Communications (MTC). This Plan must include the methodology for developing the different stages of the consultancy, the documentation and/or information sources to be used, and the activities corresponding at minimum to those described in these Terms of Reference. A detailed schedule of activities will be included, along with the delivery dates for interim and final outputs.

4.2. **Activity 2: Training Needs Assessment**

Conduct a training needs assessment with Regional Governments to tailor the program content.

4.3. **Activity 3: Curriculum Design**

Design training modules on road maintenance management and ITS technologies, including:

- Digital inclusion.
- Gender equality.
- Participation of diverse population groups.

4.4. **Activity 4: Program Delivery**

Implement the training program through workshops, webinars, and hands-on sessions, ensuring inclusive participation.

4.5. **Activity 5: Knowledge Transfer and Feedback**

Collect feedback from participants and propose recommendations for scaling and institutionalization of the training program.

5. **Expected Outcome and Deliverables**

- First Deliverable: Work Plan
- Second Deliverable: Activities 2 and 3

- Third Deliverable: Activities 4 and 5

6. Project Schedule and Milestones

The total duration of the services will be 3 months, according to the following schedule:

Deliverable	Delivery Deadline
First Deliverable	7 calendar days after the contract is signed
Second Deliverable	10 calendar days from the approval of the first deliverable
Third Deliverable	15 calendar days from the approval of the second deliverable

7. Reporting Requirements

7.1. The consultancy execution period shall not exceed two (02) months, counted from the day after the contract is signed, considering the scope of the requested activities and the resolution of any comments or observations made by the Provias Descentralizado and the Inter-American Development Bank (IDB).

8. Acceptance Criteria

8.1. The fulfillment of this service will be supervised by IDB specialists, who will monitor the approach, methodology, and results of the consultancy. Technical coordination will be carried out with Provias Descentralizado of the Ministry of Transport and Communications (MTC).

8.2. All deliverables must clearly identify and develop, at a minimum, the proposed key activities. The consulting firm must submit all relevant information developed in support of the deliverables.

9. Requirements

9.1. Consultant Requirements:

- Minimum of 7 years of experience in designing and delivering training programs
- At least 3 capacity-building programs implemented in the infrastructure or transport sectors.

9.2. Specific Requirements:

- Road Maintenance Specialist: Degree in Transport Engineering or related field.

At least 3 training modules or technical workshops delivered.

10. Other Requirements

- 10.1. After the contract is signed, the consultant will be required to maintain confidentiality regarding any information handled, provided, or developed between the firm and the contracting party during the consultancy.

11. Supervision and Reporting

- 11.1. The contract will be supervised by Rafael Capristan (rcapristan@iadb.org), Senior Transport Specialist at the IDB. All communications should also be copied to Patricia Illacanchi (patriciaill@iadb.org) and Maryori Lázaro (maryoril@iadb.org).
- 11.2. The approval of the consultancy deliverables will be carried out by the IDB. Additionally, the endorsement of Provias Descentralizado of the Ministry of Transport and Communications (MTC) will be required.

12. Schedule of Payments

- 12.1. Payment conditions will be based on the project milestones or deliverables. The Bank does not expect to make advance payments under consulting contracts unless a significant amount of travel is required. The Bank expects to receive the most competitive cost proposal for the services described in this document.
- 12.2. The official IDB exchange rate indicated in the SDP will be applied for any required currency conversions for payments made in local currency.

Payment Schedule	
Deliverable	%
First Deliverable	20%
Second Deliverable	20%
Third Deliverable	60%
TOTAL	100%

Selection process PE-T1603-P0XX

TERMS OF REFERENCE

Consulting Service for the Design and Implementation of Capacity-Building Program in ITS for Regional Governments

Perú

PE-T1603

Technical Cooperation Number

<https://www.iadb.org/es/project/PE-T1603>

“Support for the intelligent transport systems implementation on subnational roads”

13. Background and Justification

- 13.1. The Regional Competitiveness Road Infrastructure Program (Proregión), financed by the Inter-American Development Bank (IDB) through operations PE-L1252 and PE-L1279, aims to improve regional connectivity in Peru by rehabilitating, upgrading, and maintaining the Departmental Road Network (RVD). These interventions are designed to enhance access to logistics corridors, facilitate the movement of people and goods, and strengthen infrastructure resilience to climate change.
- 13.2. In this context, Technical Cooperation PE-T1603 was approved as operational support to complement the implementation of the Proregión program, with a focus on the sustainability of maintenance activities for Feeder Road Corridors (CVA) executed by Provías Descentralizado (PVD), and to support their future transfer to Regional Governments (GORE).
- 13.3. The objective of this TC is to strengthen institutional frameworks and regional capacities, and to introduce Intelligent Transportation Systems (ITS) on subnational roads. These tools will enable more efficient, safer, and data-driven management throughout the road maintenance lifecycle. The TC also incorporates cross-cutting themes such as gender, diversity, environmental sustainability, and digital inclusion, promoting the active participation of women and persons with disabilities in maintenance activities and training programs.
- 13.4. The TC is executed by the IDB through the Transport Division (INE/TSP), in coordination with the Bank's Country Office in Peru (CAN/CPE), and includes the contracting of consulting and non-consulting services for the development of studies, designs, operational tools, and institutional strengthening activities.

14. Objectives

- 14.1. To design and implement a training program for Regional Government staff on ITS with a focus on digital inclusion.

15. Scope of Services

- 15.1. The scope of this consultancy includes:
- a) Designing the training program for Regional Government staff including specific modules
 - b) Implementing training workshops and knowledge transfer activities.
 - c) Preparing a report with the training content, workshop results, and recommendations for scaling and replication.

16. Key Activities

El consultor individual se encargará como mínimo de las siguientes actividades:

16.1. Activity 1: Work Plan

The consultant will submit a Work Plan for review and approval by the IDB and the Ministry of Transport and Communications (MTC). This Plan must include the methodology for developing the different stages of the consultancy, the documentation and/or information sources to be used, and the activities corresponding at minimum to those described in these Terms of Reference. A detailed schedule of activities will be included, along with the delivery dates for interim and final outputs.

16.2. Activity 2: Training Needs Assessment

Conduct a training needs assessment with Regional Governments to tailor the program content.

16.3. Activity 3: Curriculum Design

Design training modules on road maintenance management and ITS technologies, including:

- Digital inclusion.
- Gender equality.
- Participation of diverse population groups.

16.4. Activity 4: Program Delivery

Implement the training program through workshops, webinars, and hands-on sessions, ensuring inclusive participation.

16.5. Activity 5: Knowledge Transfer and Feedback

Collect feedback from participants and propose recommendations for scaling and institutionalization of the training program.

17. Expected Outcome and Deliverables

- First Deliverable: Work Plan
- Second Deliverable: Activities 2 and 3
- Third Deliverable: Activities 4 and 5

18. Project Schedule and Milestones

The total duration of the services will be 3 months, according to the following schedule:

Deliverable	Delivery Deadline
First Deliverable	7 calendar days after the contract is signed
Second Deliverable	10 calendar days from the approval of the first deliverable
Third Deliverable	15 calendar days from the approval of the second deliverable

19. Reporting Requirements

- 19.1. The consultancy execution period shall not exceed two (02) months, counted from the day after the contract is signed, considering the scope of the requested activities and the resolution of any comments or observations made by the Provias Descentralizado and the Inter-American Development Bank (IDB).

20. Acceptance Criteria

- 20.1. The fulfillment of this service will be supervised by IDB specialists, who will monitor the approach, methodology, and results of the consultancy. Technical coordination will be carried out with Provias Descentralizado of the Ministry of Transport and Communications (MTC).
- 20.2. All deliverables must clearly identify and develop, at a minimum, the proposed key activities. The consulting firm must submit all relevant information developed in support of the deliverables.

21. Requirements

- 21.1. Consultant Requirements:

- Minimum of 7 years of experience in designing and delivering training programs
- At least 3 capacity-building programs implemented in the infrastructure or transport sectors.

21.2. Specific Requirements:

- ITS or Transport Specialist: Degree in Transport Engineering or related field. At least 3 training modules or technical workshops delivered.

22. Other Requirements

- 22.1. After the contract is signed, the consultant will be required to maintain confidentiality regarding any information handled, provided, or developed between the firm and the contracting party during the consultancy.

23. Supervision and Reporting

- 23.1. The contract will be supervised by Rafael Capristan (rcapristan@iadb.org), Senior Transport Specialist at the IDB. All communications should also be copied to Patricia Illacanchi (patriciail@iadb.org) and Maryori Lázaro (maryoril@iadb.org).

- 23.2. The approval of the consultancy deliverables will be carried out by the IDB. Additionally, the endorsement of Provias Descentralizado of the Ministry of Transport and Communications (MTC) will be required.

24. Schedule of Payments

- 24.1. Payment conditions will be based on the project milestones or deliverables. The Bank does not expect to make advance payments under consulting contracts unless a significant amount of travel is required. The Bank expects to receive the most competitive cost proposal for the services described in this document.

- 24.2. The official IDB exchange rate indicated in the SDP will be applied for any required currency conversions for payments made in local currency.

Payment Schedule	
Deliverable	%
First Deliverable	20%
Second Deliverable	20%
Third Deliverable	60%
TOTAL	100%

