

Building Stronger Transport Policy: An Evidence Gap Map

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Search and Screening Methods and Results

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About IDB

The Inter-American Development Bank (IDB) is the leading source of development financing for Latin America and the Caribbean. Since 1959, it has been dedicated to improving lives across the region by providing financial and technical support to governments and partners. Together with IDB Invest and IDB Lab, the IDB Group promotes sustainable and inclusive growth by funding projects, generating cutting-edge research, and developing innovative solutions to address the region's most pressing challenges.

About 3ie

The International Initiative for Impact Evaluation (3ie) develops evidence on how to effectively transform the lives of the poor in low- and middle-income countries. Established in 2008, we offer comprehensive support and a diversity of approaches to achieve development goals by producing, synthesizing and promoting the uptake of impact evaluation evidence. We work closely with governments, foundations, NGOs, development institutions and research organizations to address their decision-making needs. With offices in Washington DC, New Delhi and London and a global network of leading researchers, we offer deep expertise across our extensive menu of evaluation services.

Evidence gap maps

An evidence gap map (EGM) is a thematic collection of information about impact evaluations or systematic reviews that measure the effects of international development policies and programs. The EGMs provide a visual display of completed and ongoing systematic reviews and impact evaluations in a sector or sub-sector, structured around a framework of interventions and outcomes.

About this document and the EGM

This document provides a concise overview of the methods and processes followed to develop the EGM on transportation interventions. It documents key implementation decisions and protocol adjustments made during the project. The EGM was co-produced by the IDB's Transport and Knowledge and Learning Divisions, and 3ie. It is part of the broader collaboration between the IDB and 3ie, formalized through a Memorandum of Understanding signed in October 2023.

The findings and conclusions presented in this technical note are those of the authors and do not necessarily reflect the views of IDB, 3ie's donors or governing bodies, or the countries IDB and its Board of Directors represent. Please direct any comments or queries to the corresponding author, Camilo Acosta, at camiloac@iadb.org

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1. Introduction

The IDB Group Institutional Strategy 2024–2030 highlights the goal of consolidating the institution as the knowledge bank of Latin America and the Caribbean. Achieving this vision requires stronger feedback between operations and knowledge by ensuring teams have access to empirical evidence, insights from past projects, and tools that help generate new knowledge from operations.

Within this framework, the Transport Division plays a central role. As one of the IDB's largest portfolios, transport operations span all borrowing member countries and have a critical influence on the region's growth and inclusion. Ensuring their impact depends on designing projects grounded in a clear theory of change and the best available evidence.

Efficient and reliable transport systems are vital for economic growth, social inclusion, and environmental sustainability. Yet, in Latin America and the Caribbean (LAC), transport and logistics performance still lag advanced economies, limiting access to services, social inclusion (Scholl et al., 2021), competitiveness, and productivity (Calatayud & Montes, 2021).

To address this challenge, this Evidence Gap Map (EGM) compiles and classifies global evidence studying the effectiveness of transport interventions. It covers areas such as roads, regional transportation and logistics, urban mobility infrastructure, and laws, regulations, and policies related to transit and mobility. This EGM systematically organizes studies that estimate causal effects, identifying where evidence is abundant and where important gaps remain.

By visualizing this evidence, the EGM helps decision-makers identify the most promising approaches for improving transport systems, prioritize research investments, and support evidence-informed policymaking. Ultimately, this tool strengthens the connection between knowledge and operations, contributing to safer, more inclusive, and more sustainable transport in LAC and beyond.

2. Summary of Search and Screening Methods and Results

The EGM followed the agreed systematic procedures for the search, screening, and data extraction of included studies, detailed in the protocol (Acosta et al., 2025b)¹.

In brief, comprehensive searches were conducted in April 2025; titles and abstracts were screened after machine learning was used to prioritize screening; full texts of potentially relevant studies were screened in duplicate; and studies were coded in 3ie's Development Evidence Portal (DEP) using a predefined data extraction template and protocol.

¹ The EGM protocol is available at: <https://www.3ieimpact.org/research/leveraging-evidence-enhance-idbs-development-impact-lac>

2.1 Search strategy

On April 4th and 7th, 2025, an information specialist from 3ie searched the following databases: DEP, EconLit, and Web of Science. Search strings and results are available in Appendix 1. In addition, between March 19th and March 27th, the IDB Knowledge Division searched 21 websites from relevant organizations as recorded in Appendix 2.

This search complemented an initial database of relevant literature compiled by the IDB Transportation Division over the last year, which contained 167 rigorous impact evaluations.

Table 1 presents the number of search results, disaggregated by source. We retrieved 38,785 records from the searches. After deduplication, 34,733 unique records remained.

Table 1: Number of Results by Source

Sources	Results
Existing literature review from IDB	167
Existing in 3ie's Development Evidence Portal	1,363
Found in Web of Science	31,298
Found in EconLit	5,316
Grey Literature – Manual searches	624
Other manually identified studies	17
Total results	38,785
Total after deduplication	34,733

2.2 Screening process

EPPI-Reviewer software (Thomas et al. 2023) was used for the management of records, including deduplication, screening, and allocations.

A machine learning prioritization model was developed using 222 included and 2,348 excluded studies. These 222 studies included those initially compiled by the IDB Transportation Division that met the EGM's eligibility criteria. Using the model's score, all records with a score above 18 were manually screened, as well as all titles containing "review" or "meta-analysis." The model was recalibrated after screening several hundred papers to improve screening accuracy. Due to resource constraints, lower-priority records were not screened.

Title and abstract screening was done in duplicate until an 85% inter-reviewer agreement was reached (1,112 records). The remaining 5,916 records were screened individually. From TAS, 2,568 records were included for full-text screening (FTS). Of these, 34 PDFs could not be retrieved, and 2,534 studies were screened at FTS (independently in duplicate).

After FTS, we ultimately included 1,174 impact evaluations (IEs), 44 systematic reviews (SRs), and 6 ongoing IEs. Among these, 97 linked publications were merged, and six records of Ph.D. theses with at least two relevant chapters were coded as 15 separate studies.

While the search and screening processes included studies on Chinese transportation interventions, their large number—mainly focused on high-speed rail—would have distorted the visualization of other intervention–outcome areas. For this reason, **432 studies from China** that met our eligibility criteria were excluded from the final map. The complete list of screened studies is available at the IDB’s Open Data Catalog <https://data.iadb.org/dataset/building-stronger-transport-policy-an-evidence-gap-map-dataset>.

2.3 Data Extraction

The final online map now includes **711 studies**. Multiple relevant chapters of the included thesis were coded as separate records. Relevant data from these records were single-coded using a data extraction protocol. Quality assurance measures were implemented, such as manual checking of codes for all studies, to confirm the coding accuracy for the interventions and outcomes within our framework, as well as for other variables used for the filters.

To ensure consistency, resolve discrepancies, and clarify questions, weekly online check-ins were used, and a shared log of questions and answers was kept throughout the screening and data extraction processes.

The included SRs were critically appraised using the 3ie appraisal checklist—an adapted version of the Specialist Unit of Review Evidence checklist (SURE 2018). The appraisal tool assesses the methodological rigor of included SRs according to criteria covering the most common areas where bias can be introduced. When a review failed to meet one of the critical criteria—indicating that its credibility was compromised by the absence of robust methods or adherence to best practices— it was assigned a “low confidence” rating in line with the tool’s overall scoring guidelines and did not complete the remaining appraisal criteria. The quality and risk of bias of included impact evaluations were not appraised, as it was beyond the scope of this EGM.

3. AI-powered chatbot to navigate the EGM

The analysis of trends and a description of the results of the EGM go beyond the scope of this document. However, this EGM also includes a chatbot that can be used to navigate the metadata of the included studies. The chatbot connects directly to 3ie’s database through a secure API and provides real-time summaries of available studies by region, outcome, or intervention.

3.1 How it works

- Built using Dify.ai, a low-code AI platform.
- Uses 3ie’s EGM API to retrieve study data.
- Users can ask questions like *“How many transport studies are from Latin America?”* and instantly receive data-driven summaries.

The chatbot only retrieves published EGM data—no user data is stored, and it does not include the full content of the publications. It is embedded within the EGM webpage for seamless user interaction. It is designed as a support tool to help navigate the large volume of studies in the EGM and does not summarize detailed study findings.

4. Overview of the Map

Figure 1 shows an overview of the EGM, aggregated into its main intervention and outcome categories (Acosta et al., 2025a). The full map is available at:

<https://developmentevidence.3ieimpact.org/egm/transportation-evidence-gap-map>

Primary evidence and synthesis gaps are summarized in the figure below. Primary evidence gaps refer to intervention–outcome intersections with few or no impact evaluations, while synthesis gaps refer to areas with sufficient impact evaluations but no recent high- or medium-confidence systematic reviews. There are clear primary evidence gaps for service management outcomes across most intervention categories. Important evidence gaps also persist in the study of affordability outcomes, particularly within urban mobility interventions and roads, regional transportation, and logistics.

Regarding synthesis gaps, the only intervention category with high- or medium-confidence systematic reviews for most outcomes is urban mobility infrastructure, several of which are within active mobility interventions. Most medium- and high-confidence SRs are relatively recent (published between 2022-2024). For the other two domains, despite large volumes of impact evaluations, synthesis efforts are rated as of low confidence, the only exception being the intersection between regional transportation and logistics and socioeconomic results. An SR published in 2024 explored the evidence on access to agricultural markets and synthesized the effects of rural transportation infrastructure among other interventions (Marion et al., 2024). The main reasons for the low appraisals for the rest of SRs include the absence of quality assessments for included studies, insufficient reporting of search strategies, and potential selection bias in study inclusion.

Appendix A: Academic databases search strategy

# Web of Science Search Strategy (v0.1) ²	
# Database: Web of Science Core Collection	
# Entitlements:	
- WOS.SCI: 1900 to 2025	
- WOS.AHCI: 1975 to 2025	
- WOS.ESCI: 2015 to 2025	
- WOS.ISTP: 1990 to 2025	
- WOS.SSCI: 1900 to 2025	
- WOS.ISSHP: 1990 to 2025	
# Searches:	
1: TMIC=(4.183.495 Travel Behavior or 4.183.669 Road Safety or 4.183.486 Traffic Flow or 8.124.10 Aerosols or 4.84.471 Vehicle Routing Problem or 4.18.788 Electric Vehicles or 8.124.552 Air Pollution or 4.84.260 Supply Chain or 6.10.465 International Trade or 6.10.82 Economic Growth or 4.183.2127 Train Scheduling or 1.150.1538 Road Traffic Noise or 6.110.580 Crime or 9.92.1337 Causal Inference or 6.86.280 Agglomeration Economies or 6.86.789 House Prices or 3.40.627 Deforestation or 6.263.898 Farmers)	
Timespan: 2005-01-01 to 2025-12-31	Results: 714732
2: TS= ((match* NEAR/2 ("propensity" or "coarsened" or "covariate" or "neighbor" or "method" or "data")) or "propensity score" or ("difference*-in-difference*" or "double difference*") or quasi-experiment* or ("estimator" and evaluat*) or ("instrumental variable*" or ("IV" NEAR/2 ("estimation" or "approach"))) or ("Heckman" NEAR/3 (model* or approach*)) or (("two-stage" or "three-stage" or "four-stage") NEAR/3 (control* or function* or regression* or "least squares")) or "2SLS" or "regression discontinuity" or "synthetic control\$" or "time series" or "counterfactual" or "segment* regression" or (non NEAR/2 participant*) or (("control" or "comparison") NEAR/2 (group* or condition* or area* or village* or household* or intervention or site*)) or ("panel\$" NEAR/2 ("data" or household* or model*)) or ((exploit* or "take* advantage") NEAR/3 (variation* or "variety" or exogen* or heterogen*)) or ("econometric" NEAR/2 (model* or adjust*)) or (select* NEAR/2 (bias* or "self")))	
Timespan: 2005-01-01 to 2025-12-31	Results: 1351592
3: TS= ("program* evaluation" or "project evaluation" or "evaluation research" or "natural experiment*" or "program* effectiveness" or "outcome assessment" or "evaluation study" or "field experiment")	
Timespan: 2005-01-01 to 2025-12-31	Results: 90932
4: TS= (("impact\$" or effect*) NEAR/2 (evaluat* or "assess" or "assessing" or "assessment" or "analyze" or "analyse" or "analyzing" or "analysing" or "analysis" or "analytical" or "estimate" or "estimating" or "estimation" or "cause" or "causal" or strong* or weak* or exert*))	
Timespan: 2005-01-01 to 2025-12-31	Results: 1651826

² This search string was adapted for EconLit and DEP.

5: TS= ((experiment* NEAR/2 ("design" or "study" or "research" or evaluat* or "evidence" or "vary" or "varies" or "variation")) or (("random" or "randomi?ed" or "randomly") NEAR/2 ("trial" or assign* or "treatment" or control* or allocat* or experiment* or evaluat* or "vary" or "varies" or "variation" or "choose" or chose*))	Results: 1498370
Timespan: 2005-01-01 to 2025-12-31	
6: #2 OR #3 OR #4 OR #5	Results: 4076325
Timespan: 2005-01-01 to 2025-12-31	
7: TS= (school* or educat* or universit* or "testing" or ("test" NEAR/3 scor*) or "literacy" or "attainment" or "achievement" or graduat* or attend*)	Results: 4076683
Timespan: 2005-01-01 to 2025-12-31	
8: TS= (emission* or emit* or pollut* or "carbon footprint\$" or ("fuel" NEAR/3 efficien*) or ("air" NEAR/3 "quality") or (clean* NEAR/3 "energy") or (("pm" or particulat*) NEAR/3 (concentrat* or (sustainab* NEAR/3 "urban" NEAR/3 develop*)))	Results: 2027639
Timespan: 2005-01-01 to 2025-12-31	
9: TS= (injur* or fatal* or surviv* or "collision\$" or "crash" or "crashes" or "accident\$" or safe* or (("physician\$" or "doctor\$") NEAR/3 ("visit\$" or "trip\$")) or hospital* or "life expectan*" or "crime" or assault* or "homicide\$" or "murder\$" or arrest* or "police per individual")	Results: 6107863
Timespan: 2005-01-01 to 2025-12-31	
10: TS= ("leisure" or recreation* or ("time" NEAR/3 ("family" or "families")) or "gender" or "sex" or minorit* or inequalit* or inequit* or equit* or "unequal" or "gini" or (access* NEAR/3 "service\$") or "inclusion" or "noise" or "noisy" or "decibel\$")	Results: 3389671
Timespan: 2005-01-01 to 2025-12-31	
11: TS= ("fare\$" or "price\$" or "pricing" or "cost\$")	Results: 2477364
Timespan: 2005-01-01 to 2025-12-31	
12: TS= ("passenger\$" or commut* or delay* or "mode choice" or "ridership" or ("vehicle\$" or "car\$" or "automobile\$") NEAR/3 ("private" or own*) or (("urban" or "sustainable" or "service\$" or "smart") NEAR/3 mobil*) or (travel* NEAR/3 "time") or "average speed" or "micromobility" or "e-mobility" or ("connectivity" NEAR/3 ("last mile")))	Results: 1125693
Timespan: 2005-01-01 to 2025-12-31	
13: TS= (migra* or immigra* or emmigra*)	Results: 870706
Timespan: 2005-01-01 to 2025-12-31	
14: TS= ("poverty" or "poor" or impoverish* or hous* or rent* or "wage\$" or salar* or "capital acquisition")	Results: 1703160
Timespan: 2005-01-01 to 2025-12-31	
15: TS= ("market\$" or "labo\$r" or "worker\$" or employ* or unemploy* or "gross domestic product" or "GDP" or "gross national product" or "GNP" or econom* or "trade" or "trading" or "traded" or import* or export* or (flow* NEAR/3 ("goods" or "services")) or expend* or "consume" or "consumption" or produc* or "TFP" or "crop\$" or farm* or (("land" or "acre\$" or "acreage" or "hectare\$" or "hectarage") NEAR/3 (allocat* or "use" or "usage"))	Results: 15654279
Timespan: 2005-01-01 to 2025-12-31	
16: #7 OR #8 OR #9 OR #10 OR #11 OR #12 OR #13 OR #14 OR #15	Results: 26372889
Timespan: 2005-01-01 to 2025-12-31	

17: TS= ("port\$" or "harbor\$" or "harbour\$" or "canal\$")	
Timespan: 2005-01-01 to 2025-12-31	Results: 288961
18: TS= ("bus" or "buses" or "busing" or "bussing" or "low emission*" or "low carbon" or (fuel NEAR/3 efficien*) or ((charg* or "electric vehicle\$" or "electric car\$" or "EV") NEAR/3 ("station\$" or "network\$")) or ("fleet\$" NEAR/3 (electri* or "EV")) or ((electri* NEAR/3 ("car\$" or "vehicle\$" or "automobile\$")) NEAR/3 (incentiv* or bonus* or "rebate\$" or "credit\$" or subsid* or "tax break\$")) or (("driving" or "driver\$") NEAR/3 ("aid\$" or assist*)) or ((ride* or carpool*) NEAR/3 ("app\$" or "application\$" or inventiv* or regulat*)) or ((autonomous* or "self-driving" or "connected") NEAR/3 ("vehicle\$" or "car\$" or "automobile\$")))	
Timespan: 2005-01-01 to 2025-12-31	Results: 268824
19: TS= ("parking" or (("traffic light\$" or "stoplight\$" or "stop light\$") NEAR/3 ("smart" or "intelligent" or control* or coordinat* or phas*)) or ((congest* or "traffic") NEAR/3 (charg* or pric* or "zone\$" or "area\$" or manag* or monitor*)) or (("traffic" or "license number" or "licence number" or "license plate" or "licence plate") NEAR/3 (ration* or restrict*)) or "number coding scheme\$" or "Unified Vehicular Volume Reduction Program" or UVVRP or "Pico y Placa" or "hoy no circula")	
Timespan: 2005-01-01 to 2025-12-31	Results: 63443
20: TS= (("bicycle\$" or "bike\$" or "cycle" or "cycling") NEAR/3 (path* or trail* or "lane\$"))	
Timespan: 2005-01-01 to 2025-12-31	Results: 16293
21: TS= ("infrastructure" or road* or "highway\$" or tunnel* or "hyperloop\$" or "bridge\$" or "sidewalk\$" or "footpath\$" or pedestrian* or "toll\$")	
Timespan: 2005-01-01 to 2025-12-31	Results: 1312246
22: TS= ("tram\$" or "trolley\$" or "streetcar\$" or "street car\$" or "cablecar\$" or "cable car\$" or "gondola\$")	
Timespan: 2005-01-01 to 2025-12-31	Results: 12227
23: TS= ("train\$" or "rail" or "railway\$" or "railroad\$" or "monorail" or subway* or ("metro" NEAR/3 ("underground" or "subterranean" or "passenger\$" or "system\$" or "network\$" or "track\$" or "line\$" or "station\$")))	
Timespan: 2005-01-01 to 2025-12-31	Results: 306379
24: TS= (transport* or "transit" or "logistics" or paratransit or "active mobility")	
Timespan: 2005-01-01 to 2025-12-31	Results: 1715807
25: #17 OR #18 OR #19 OR #20 OR #21 OR #22 OR #23 OR #24	
Timespan: 2005-01-01 to 2025-12-31	Results: 3616352
26: #16 AND #25	
Timespan: 2005-01-01 to 2025-12-31	Results: 2227796
27: #6 AND #26	
Timespan: 2005-01-01 to 2025-12-31	Results: 214426
28: #1 AND #27	
Timespan: 2005-01-01 to 2025-12-31	Results: 29887
29: TI= ("Evidence from a vanishing bridge")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
30: TI= ("Smart charging of electric vehicles with photovoltaic power")	

Timespan: 2005-01-01 to 2025-04-02	Results: 1
31: TI= ("the effect of infrastructure improvement on agricultural intensification")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
32: TI= ("the Role of Public Transport in Promoting")	
Timespan: 2005-01-01 to 2025-04-02	Results: 0
33: TI= ("Contracting the Road to Development")	
Timespan: 2005-01-01 to 2025-04-02	Results: 0
34: TI= ("Driving reduction after the introduction of light rail")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
35: TI= ("Teaching children to cross streets safely")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
36: TI= ("pedestrian injury prevention program on driver yielding behavior")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
37: TI= ("impact of rural roads in Nicaragua")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
38: TI= ("Driving restrictions that work")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
39: TI= ("approach to impact evaluation of Danida support to rural transport")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
40: TI= ("An innovative transit system and its impact on low income users")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
41: TI= ("driving aids on driving performance and driver distraction")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
42: TI= ("Estimating the value of a new transit option")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
43: TI= ("Do rural roads create pathways out of poverty")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
44: TI= ("impact of railroads in Sweden")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
45: TI= ("Estimating the Uber effect")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
46: TI= ("variable speed limits on air pollution in the metropolitan area")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
47: TI= ("Evaluation of the impact of Bus Rapid Transit on air pollution in Mexico City")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
48: TI= ("Associations between cycling experience and change detection")	
Timespan: 2005-01-01 to 2025-04-02	Results: 1
49: TI= ("The impact of public transport expansions on informality")	
	Results: 1
50: TI= ("Exploring the causal effects of nonlocal vehicle driving restriction")	
	Results: 1
51: TI= ("Roads and Jobs in Ethiopia")	
	Results: 1

52: TI= ("The effects of road infrastructure, and transport and logistics services")	
	Results: 1
53: TI= ("Roads, Railroads, and Decentralization of Chinese Cities")	
	Results: 1
54: #29 OR #30 OR #31 OR #32 OR #33 OR #34 OR #35 OR #36 OR #37 OR #38 OR #39 OR #40 OR #41 OR #42 OR #43 OR #44 OR #45 OR #46 OR #47 OR #48 OR #49 OR #50 OR #51 OR #52 OR #53	
	Results: 23
55: #28 and #54	
	Results: 19

Appendix B: Grey literature search strategy

Organization	IDB
Link used for the search	https://publications.iadb.org/en
Date of search	19/03/2025
Year filter?	Since 2005
Topic filter?	Using keywords
Publication type filter?	Discussion papers, technical notes, policy briefs and working papers
Boolean terms?	Keep all publications from TSP OR other publications that meet keywords AND JEL codes
Initial hits	228
Final results	226
Search strings tested or topic filters used	"use ""IDBpubs_clean.dta"", clear
(justification for either)	<p>* 1. Keep from 2005 onwards and one record per publication keep if year>=2005 keep if n==1 drop if doi=""</p> <p>* 2. Keep discussion papers, technical notes, policy briefs and working papers fre pubtype keep if inlist(pubtype,6,10,11,12) compress</p> <p>gen ref=0 replace ref=1 if inlist(pubtype,2,9,12)</p> <p>gsort title -ref bys title: gen dupl=_n keep if dupl==1 drop ref</p> <p>* 3. Identify publications from TSP count gen TSP=0 replace TSP=1 if strpos(Departments,""Transporte"")>0 replace TSP=1 if strpos(Departments,""Transport"")>0</p> <p>* 4. Intervention search: titles and abstracts gen titulo=lower(title) replace abstract=lower(abstract) gen ti_ab_TSP_in=0</p> <p>local keywords_in `"" ""transport"" ""transit"" ""logistic"" ""paratransit"" "" mobility"" ""movilidad"" ""train"" ""rail"" ""railway"" ""railroad"" ""monorail"" ""subway"" ""metro"" ""station"" ""trolley"" ""tranvia"" ""tren"" ""carro"" ""streetcar"" ""street car"" ""gondola"" ""metrocable"" ""highway"" ""autopista"" ""carretera"" ""parkway"" ""tunnel"" ""tunel"" ""puente"" ""bridge"" ""acera"" ""anden"" ""sidewalk"" ""footpath"" ""pedestrian"" ""peaton"" ""peaje"" ""toll"" ""pico y placa"" ""bici"" ""bike"" ""cycling"" ""trail"" ""parking"" ""parqueo"" ""estacionamiento"" ""semaforo"" ""street light"" ""stop light"" ""vehiculos"" ""vehicles"" ""licence plate"" ""circulation restriction"" ""congestion"" ""hoy no circula"" ""uvvrp"" ""lrt"" ""brt"" ""transmilenio"" ""low emission"" ""bajas emisiones"" ""buses"" ""estaciones"" ""carpool"" ""ride"" ""self-driving"" ""automovil"" ""automobile"" ""port of"" ""harbor""</p>

```

""harbour"" ""port"" ""puerto"" ""canal de panama"" ""uber"" ""tiquete"" ""fare""
""subsidios de transporte""

foreach k in `keywords_in`{
  display `""k""`
  replace ti_ab_TSP_in=1 if (strpos(titulo,`""k""`)>0) |
(strpos(abstract,`""k""`)>0)
}
replace ti_ab_TSP_in=0 if strpos(titulo, ""transition"" )>0 |
strpos(titulo, ""transitory"" )>0 | strpos(titulo, ""trends"" )>0 | strpos(titulo, ""guber"" )>0
| strpos(titulo, ""transitando"" )>0 | strpos(titulo, ""training"" )>0 |
strpos(titulo, ""trainee"" )>0
replace ti_ab_TSP_in=0 if strpos(abstract, ""transition"" )>0 |
strpos(abstract, ""transitory"" )>0 | strpos(abstract, ""trends"" )>0 |
strpos(abstract, ""guber"" )>0 | strpos(abstract, ""transitando"" )>0 |
strpos(abstract, ""training"" )>0 | strpos(abstract, ""trainee"" )>0

tab TSP ti_ab_TSP_in, m

```

* 5. Outcomes search: titles and abstracts

```
gen ti_ab_TSP_ou=0
```

```

local keywords_ou `"" ""market"" ""labor"" ""workers"" ""employ"" ""jobs"" ""gross
domestic product"" ""gdp"" ""gnp"" ""trade"" ""import"" ""export"" ""expend""
""consump"" ""tfp"" ""crop"" ""farm"" ""poverty"" ""rents"" ""wages"" ""salar""
""price"" ""inflation"" ""investment"" ""migra"" ""passenger"" ""commut"" ""delay""
""mode choice"" ""ridership"" ""vehicle"" ""automobile"" ""sustainable"" ""smart""
""travel time"" ""speed"" ""e-mobility"" ""fare"" ""price"" ""costs"" ""leisure""
""recreation time"" ""time savings"" ""family time"" ""gender"" ""inequality""
""unequal"" ""gini"" ""inclusion"" ""segregat"" ""noise"" ""decibel"" ""injur"" ""fatal""
""surviv"" ""collision"" ""accident"" ""safety"" ""physician"" ""doctor"" ""trip""
""hospital"" ""life expectancy"" ""crime"" ""assault"" ""homicide"" ""murder""
""arrest"" ""polic"" ""emission"" ""emit"" ""pollut"" ""carbon"" ""fuel"" ""air quality""
""clean energy"" ""pm"" ""urban develop"" ""school"" ""educat"" ""univers""
""testing"" ""scores"" ""literacy"" ""attain"" ""achieve"" ""graduat"" ""continuity""
""resilience"" ""affordability"" ""ownership"" ""fleet"" ""`

```

```

local palabras_ou `"" ""mercado"" ""trabaj"" ""emplear"" ""empleo"" ""empleos""
""producto interno bruto"" ""pib"" ""pnb"" ""comercio"" ""importacion""
""exportacion"" ""gasto"" ""consumo"" ""productividad"" ""cultivo"" ""granja""
""pobreza"" ""alquiler"" ""precio"" ""inflacion"" ""inversion"" ""pasajero"" ""viaje
diario"" ""retraso"" ""eleccion de modo"" ""vehiculo"" ""coche"" ""carro""
""automovil"" ""sostenible"" ""inteligente"" ""tiempo de viaje"" ""velocidad""
""movilidad"" ""tarifa"" ""costos"" ""ocio"" ""recreacion"" ""ahorro"" ""genero""
""desigual"" ""gini"" ""inclusion"" ""segregacion"" ""ruido"" ""decibelio"" ""lesion""
""fatalidad"" ""supervivencia"" ""colision"" ""accidente"" ""seguridad"" ""medico""
""doctor"" ""viaje"" ""hospital"" ""esperanza de vida"" ""crimen"" ""asalto""
""homicidio"" ""asesinato"" ""arresto"" ""policia"" ""emision"" ""emitir""
""contaminacion"" ""carbono"" ""combustible"" ""calidad del aire"" ""energia
limpia"" ""partículas PM"" ""desarrollo urbano"" ""escuela"" ""educacion""
""universidad"" ""prueba"" ""puntajes"" ""alfabetizacion"" ""graduacion""
""continuidad"" ""resiliencia"" ""asequibilidad"" ""propiedad"" ""flota"" ""`

```

```
foreach k in `keywords_ou`{
```

```

display `""`k""
replace ti_ab_TSP_ou=1 if (strpos(titulo,`""`k"">0) |
(strpos(abstract,`""`k"">0)
}
foreach k in `palabras_ou`{
display `""`k""
replace ti_ab_TSP_ou=1 if (strpos(titulo,`""`k"">0) |
(strpos(abstract,`""`k"">0)
}

* 6. JEL Codes of interest
gen jel_TSP=0

local jel ""L62 L91 L92 L98 O18 R4 N7""
foreach k in `jel`{
display `""`k""
replace jel_TSP=1 if (strpos(JELCodes,`""`k"">0)
}

* 7. Decision rule
keep if TSP==1 | (ti_ab_TSP_in==1 & ti_ab_TSP_ou==1 & jel_TSP==1)
compress
"

```

Organization	World Bank
Link used for the search	https://documents.worldbank.org/en/publication/documents-reports/docadvancesearch
Date of search	24/03/2025
Year filter?	Since 2005
Topic filter?	Using keywords
Publication type filter?	Policy Research Working Paper
Boolean terms?	N
Initial hits	3734
Final results	187
Search strings tested or topic filters used (justification for either)	Year>=2005, disclosed documents, document type (column H), languages (4), "impact evaluation" or "systematic review", topics similar using keywords as in IDB's search with a code in Stata

Organization	CAF
Link used for the search	https://www.caf.com/en/action-areas/research-for-development/publications/
Date of search	20/03/2025
Year filter?	N
Topic filter?	Subjects: evaluación de impacto, asociaciones público-privadas, desarrollo urbano, logística, movilidad urbana, puertos, seguridad vial, transporte, vialidad.
Publication type filter?	N
Boolean terms?	N
Initial hits	240
Final results	9
Search strings tested or topic filters used (justification for either)	Filters in this website are not sequential so it was harder to search. That is why I imposed the initial filter of impact evaluations

Organization	CEPAL
Link used for the search	https://www.cepal.org/en/list/cepal_publication
Date of search	20/03/2025
Year filter?	Since 2005
Topic filter?	Topics: programme and policy evaluation, infrastructure, regional physical integration, logistics and mobility, road safety
Publication type filter?	N
Boolean terms?	N
Initial hits	86
Final results	0
Search strings tested or topic filters used (justification for either)	Filters in this website were semi-sequential so it was harder to search. That is why I imposed the initial filter of programme and policy evaluation

Organization	Asian Development Bank
Link used for the search	https://www.adb.org/publications
Date of search	25/03/2025
Year filter?	Since 2005
Topic filter?	Topics: transport
Publication type filter?	Yes, Publication
Boolean terms?	N
Initial hits	33
Final results	29
Search strings tested or topic filters used (justification for either)	I use "evaluation" in the search field. Also, I just took papers and briefs, publications and reports. I did not include books and infographics

Organization	African Development Bank
Link used for the search	https://www.afdb.org/en/documents/publications
Date of search	26/03/2025
Year filter?	N
Topic filter?	N
Publication type filter?	Working paper series
Boolean terms?	N
Initial hits	322
Final results	7
Search strings tested or topic filters used (justification for either)	Filters in this website are not sequential so it was harder to search. That is why I examined all the articles and look for something related to transportation

Organization	European Investment Bank
Link used for the search	https://www.eib.org/en/publications/all/index.htm
Date of search	20/03/2025
Year filter?	N
Topic filter?	Tags: economic impact, EU-Africa Infrastructure Trust Fund, Fossil Fuel, Impact, Infrastructure, Mobility, PPP*, Railways, Reconstruction, sustainable transport, Urban development, urban mobility, urban transport, ten-t
Publication type filter?	Thematic studies and working papers
Boolean terms?	N
Initial hits	4
Final results	4

Search strings tested or topic filters used (justification for either) I tried broader types of series, or doing a search alone without any tags that included words like transport and impact, but most of the results were descriptive studies or organizational reports

Organization	UN Trade and Development
Link used for the search	https://unctad.org/publications
Date of search	26/03/2025
Year filter?	Since 2005
Topic filter?	Tags: Maritime transport, transport costs, transit transport, transport policy and legislation, research papers, policy issues in international trade
Publication type filter?	N
Boolean terms?	N
Initial hits	84
Final results	23
Search strings tested or topic filters used (justification for either)	Filters in this website are not sequential so it was harder to search. I examined tag by tag and look for "impact" OR "evaluation"

Organization	UN Habitat
Link used for the search	https://unhabitat.org/knowledge/research-and-publications
Date of search	24/03/2025
Year filter?	N
Topic filter?	Topic: mobility and transport
Publication type filter?	Publication or report
Boolean terms?	N
Initial hits	1
Final results	1
Search strings tested or topic filters used (justification for either)	"evaluation", publication or report, topic: mobility and transport

Organization	International Road Federation
Link used for the search	https://www.irf.global/irf-knowledge/
Date of search	25/03/2025
Year filter?	N
Topic filter?	N
Publication type filter?	IRF Examiner, white papers
Boolean terms?	N
Initial hits	Approx. 90
Final results	10
Search strings tested or topic filters used (justification for either)	I opened each issues of the IRF examiner. Then I read each title and abstract and briefly assessed if they should be included for the next stage. Finally, I searched each selected document in Google Scholar and added to Zotero

Organization	International Council on Clean Transportation
Link used for the search	https://theicct.org/insight-analysis/publications/
Date of search	24/03/2025
Year filter?	Start date: 2005-01-01
Topic filter?	N
Publication type filter?	Working paper, true publications
Boolean terms?	N
Initial hits	61
Final results	18

Search strings tested or topic filters used (justification for either)	"evaluation", start date after 2005, and only download working papers and true publications in english, spanish, portuguese or french.
Organization	World Resources Institute
Link used for the search	https://www.wri.org/resources?query=&sort_by=created
Date of search	26/03/2025
Year filter?	N
Topic filter?	Biking, carbon pricing, congestion, electric mobility, health and road safety, infrastructure, integrated transport, public transit, road safety, transportation, urban mobility, GHG Emissions, GHG
Publication type filter?	Working papers and technical notes
Boolean terms?	N
Initial hits	20
Final results	20
Search strings tested or topic filters used (justification for either)	"evaluation", type of resource (research: technical note, working paper), topic filters as in column G
Organization	C40 Cities
Link used for the search	https://www.c40.org/research/
Date of search	26/03/2025
Year filter?	N
Topic filter?	Transport
Publication type filter?	Research reports
Boolean terms?	N
Initial hits	8
Final results	8
Search strings tested or topic filters used (justification for either)	evaluation, topic: transport, type: policy briefs and research reports
Organization	Transformative Urban Mobility Initiative
Link used for the search	https://transformative-mobility.org/knowledge-hub/multimedia-library/
Date of search	26/03/2025
Year filter?	N
Topic filter?	N
Publication type filter?	Publications
Boolean terms?	N
Initial hits	8
Final results	8
Search strings tested or topic filters used (justification for either)	search separately for "impact" and then for "evaluation". Evaluation contained one handbook and three framework documents, not actual studies.
Organization	Institute for Transportation and Development Policy
Link used for the search	https://itdp.org/publications/
Date of search	26/03/2025
Year filter?	N
Topic filter?	N
Publication type filter?	N
Boolean terms?	N
Initial hits	6
Final results	0

Search strings tested or topic filters used
(justification for either)

evaluation

Organization	Rand Transportation
Link used for the search	https://www.rand.org/topics/transportation.html
Date of search	26/03/2025
Year filter?	Since 2005
Topic filter?	N
Publication type filter?	Research
Boolean terms?	N
Initial hits	18
Final results	13
Search strings tested or topic filters used (justification for either)	impact evaluation, content type: research
Organization	International Transport Forum
Link used for the search	https://www.itf-oecd.org/
Date of search	27/03/2025
Year filter?	N
Topic filter?	N
Publication type filter?	N
Boolean terms?	N
Initial hits	20
Final results	9
Search strings tested or topic filters used (justification for either)	"impact evaluation"
Organization	International Energy Agency
Link used for the search	https://www.iea.org/search/analysis?q=Publications
Date of search	27/03/2025
Year filter?	N
Topic filter?	N
Publication type filter?	reports
Boolean terms?	N
Initial hits	75
Final results	0
Search strings tested or topic filters used (justification for either)	"impact evaluation"
Organization	Transport Research Laboratory
Link used for the search	https://www.trl.co.uk/publications
Date of search	27/03/2025
Year filter?	N
Topic filter?	N
Publication type filter?	N
Boolean terms?	N
Initial hits	70
Final results	23
Search strings tested or topic filters used (justification for either)	"evaluation"

Organization	Department for Transport (UK)
Link used for the search	https://www.gov.uk/search/research-and-statistics
Date of search	26/03/2025
Year filter?	Since 2005
Topic filter?	Topic: transport
Publication type filter?	N
Boolean terms?	N
Initial hits	61
Final results	2
Search strings tested or topic filters used (justification for either)	search "impact" and "evaluation". Have 61 results. With "impact evaluation" I have 2 results. I will keep those 2 results.

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