



Data Tools for Transport Planning: Introducing the SCOPE Web Tool

July 9, 2025



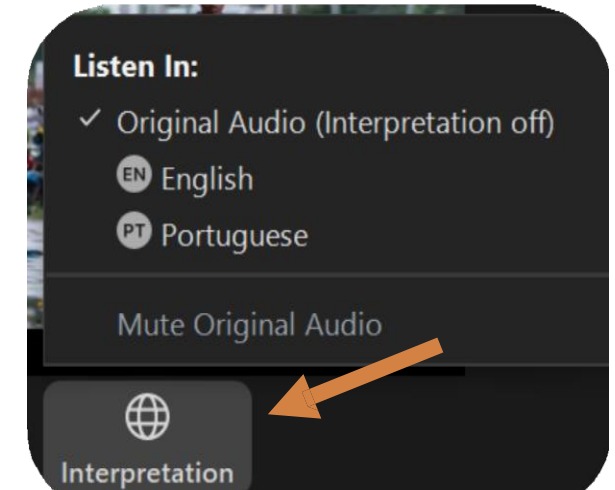
Some Reminders



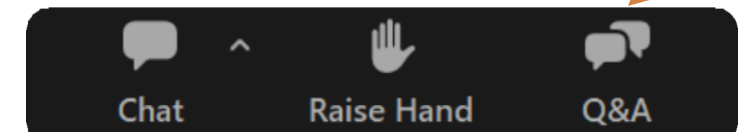
This session will be about 60 minutes and is recorded to share @ITDP_HQ on YouTube



For non-English interpretation, select the language you prefer in the toolbar (Spanish or Bahasa Indonesia)

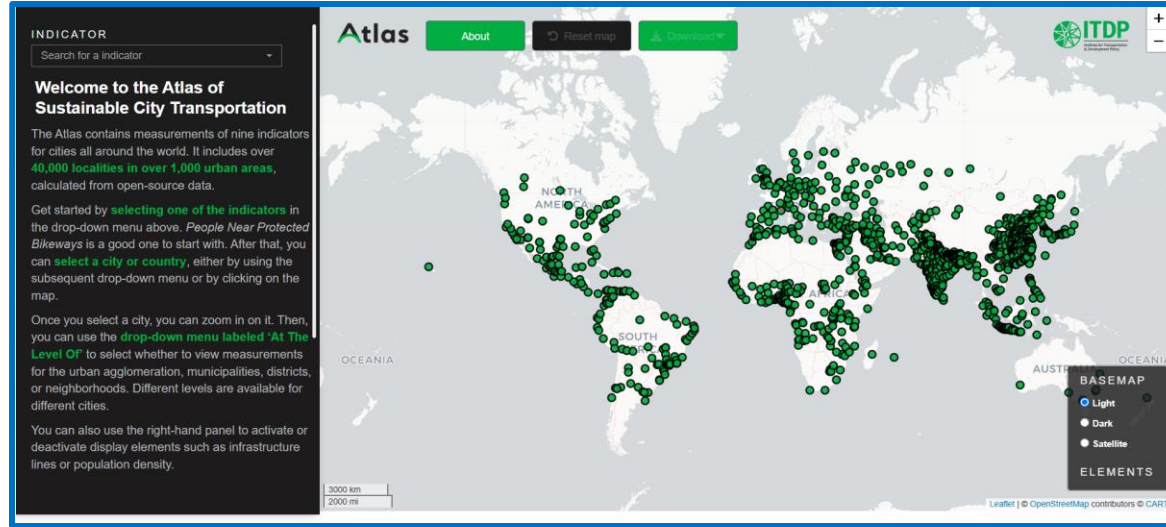


The chat box is available for comments, but please submit questions for our speakers using the Q&A function

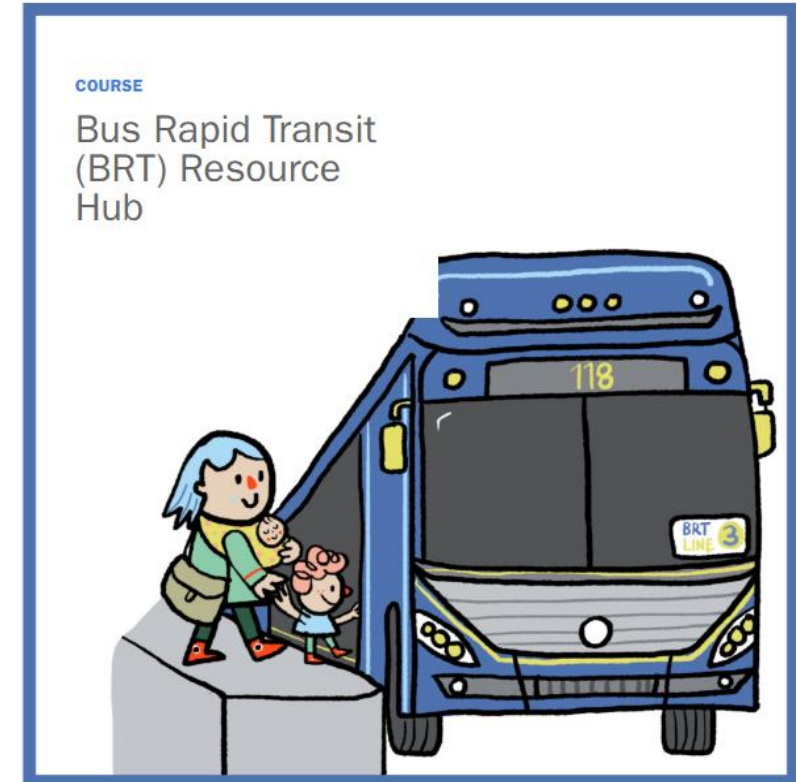


Background on ITDP's Data Tools

atlas.itdp.org



itdp.org/learning-hub



SCOPE tools: itdp.org
or scope.itdp.org

Simple Calculator of Project Effects for Off-Street Parking Policy Reform (Off-Street Parking SCOPE)
Main page: Data entry and predictions

INSTRUCTIONS:
Fill out the yellow cells. If desired, fill out the blue cells as well with custom data. Type all values directly into the cells (do not copy and paste).
The tool is color-coded as follows:

Required user input
Optional user input, default values are given
Input value is invalid
Text or supporting data; do not edit
Outputs

For details and documentation, see <https://itdp.org/publication/off-street-parking-scope-emissions-tool>
version 1.0.1, 2024-12-23

Evaluation Introduction

Year of policy implementation	
City or district name	
Country or world region (choose from dropdown)	
Population growth rate	growth per year
Growth rate of office space	growth per year
Growth rate of commercial (retail, restaurant, etc.) space	growth per year
Car emissions factors (choose one from dropdown)	Default emission factors for your region

What are the SCOPE tools?

The Simple Calculators Of Project Effects (SCOPE) are free tools that can estimate potential impacts of sustainable transport infrastructure

Suite of tools includes:

- Bus Rapid Transit
- Protected bicycle lane networks
- Off-street parking policies

Impacts predicted:

- ▶ Potential impacts on air pollutant emissions (CO, PM2.5, NO2eq);
- ▶ Potential impacts on climate pollutants (CO2eq)

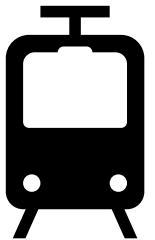
What is the BRT SCOPE?

The Simple Calculator Of Project Effects (SCOPE) is a free tool that can estimate potential impacts of BRT corridor implementation

Main inputs

- City's basic information;
- Fleet characteristics;
- Population or ridership data.

[Optional] Custom factors



- ▶ Excel tool's customized inputs may allow for rough estimations of LRT impacts

Final results

- ▶ Changes in ridership;
- ▶ Percentage shifting from other modes;
- ▶ Potential impacts on air pollutant emissions (CO, PM2.5, NO2eq);
- ▶ Potential impacts on climate pollutants (CO2eq)

Good planning → Better systems

The BRT SCOPE tool simplifies assessments to support projects, reducing potential time and costs

Enhances corridor selection

- Provides KPIs like PNT and frequency
- Provides pollutant estimations for routes

Provides insightful impact analysis

- Evaluates potential impacts of design changes
- Assesses fleet technology changes

Data-driven promotion


- Supplies key supportive data to make a strong case for BRT

Target audiences:

- MDBs providing climate financing
- Climate ministries/government agencies
- Technical/transport planning staff
- Transport advocates

The original Excel tools ...

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& Development Policy

BRT SCOPE Main Page: Data Entry and Predictions

INSTRUCTIONS:

Step 1: Fill out the yellow cells to provide basic information about the BRT project. If desired, fill out the blue cells as well with custom data. Type all values directly into the cells (do not copy and paste).

City Characteristics

City name	buenos aires
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Country name	Argentina
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Annual urban population growth rate (percent)

Year	Default (Population Growth Rates)	<i>User Custom Input</i>
2020	1.07%	
2030	0.79%	
2050	0.55%	

Working days in a year

Default (EspoCRM)	<i>User Custom Input</i>
260	

Pros:

- Fully customizable
- View all back-end data and calculations

Cons:

- Harder for less technical users
- No geospatial features

... are now available online!

BRT SCOPE Tool

ITDP's BRT SCOPE tool evaluates the climate and air quality benefits of a BRT corridor.

To start, enter information about the project route

Step 1: Location

2

3



Country

Select the country

City

Select the city

Project Name

scope.itdp.org


Pros:

- Simple to use with any level of expertise
- Geospatial features
- Large datasets included; city-level data
- Easily save and compare scenarios


Cons:

- Less customizable
- Less transparent

BRT SCOPE web tool in action:



[Home](#) [About](#) [Documentation](#) [SCOPE tools](#) [Login](#) [EN](#)



SCOPE Out Your New BRT Line

Reliable sketch-level impact predictions for transportation project plans with ITDP's Simple Calculator of Project Effects (SCOPE)

[Evaluate a BRT corridor](#)
[Documentation](#)

BRT

Cycle lanes

Footpaths

The new SCOPE tools by the Institute for Transportation and

Thank you!

::: itdp.org ::: [@ITDP-HQ](https://twitter.com/ITDP-HQ) :::

Visit ***scope.itdp.org*** and ***itdp.org***
for more resources & events.