Scipopulis

A green4T company

About us

We are an innovation company working with **data** analysis, processing, integration and visualization, focused in turning cities into **smart cities**.

Since 2014, our mission is to build more human, sustainable and integrated cities for everyone, applying technology, urbanism and design.

Our solutions

Weather

Ticketing

GPS

Traffic

+

Big Data

Cloud Computing

Machine Learning

=

Contextualized information

Solutions for governments

Enabling evidence-based decision making

TRANCITY

Public transport management in real-time

To better adapt to new people flows and other challenges imposed by the “new normal”, public managers need a tool that allows them to monitor the current scenario and its evolution.

TRANCITY is exactly this tool

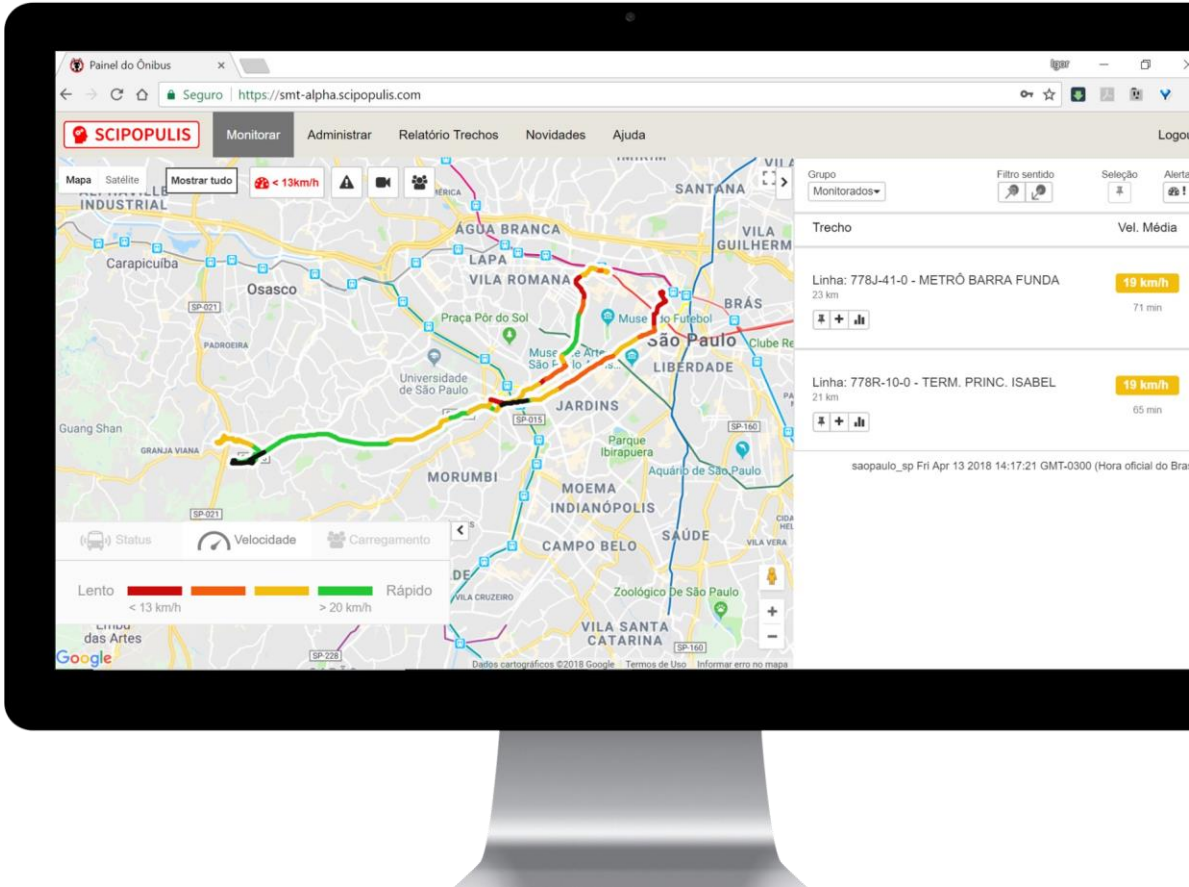
- Paths and vehicle positions
- Quantity of buses operating
- Need for new lines
- Bottlenecks
- Variations in offer
- Evolution of metrics through time

trancity

Visualization of paths and positions

Identify structural points of failure

Follow metrics through time

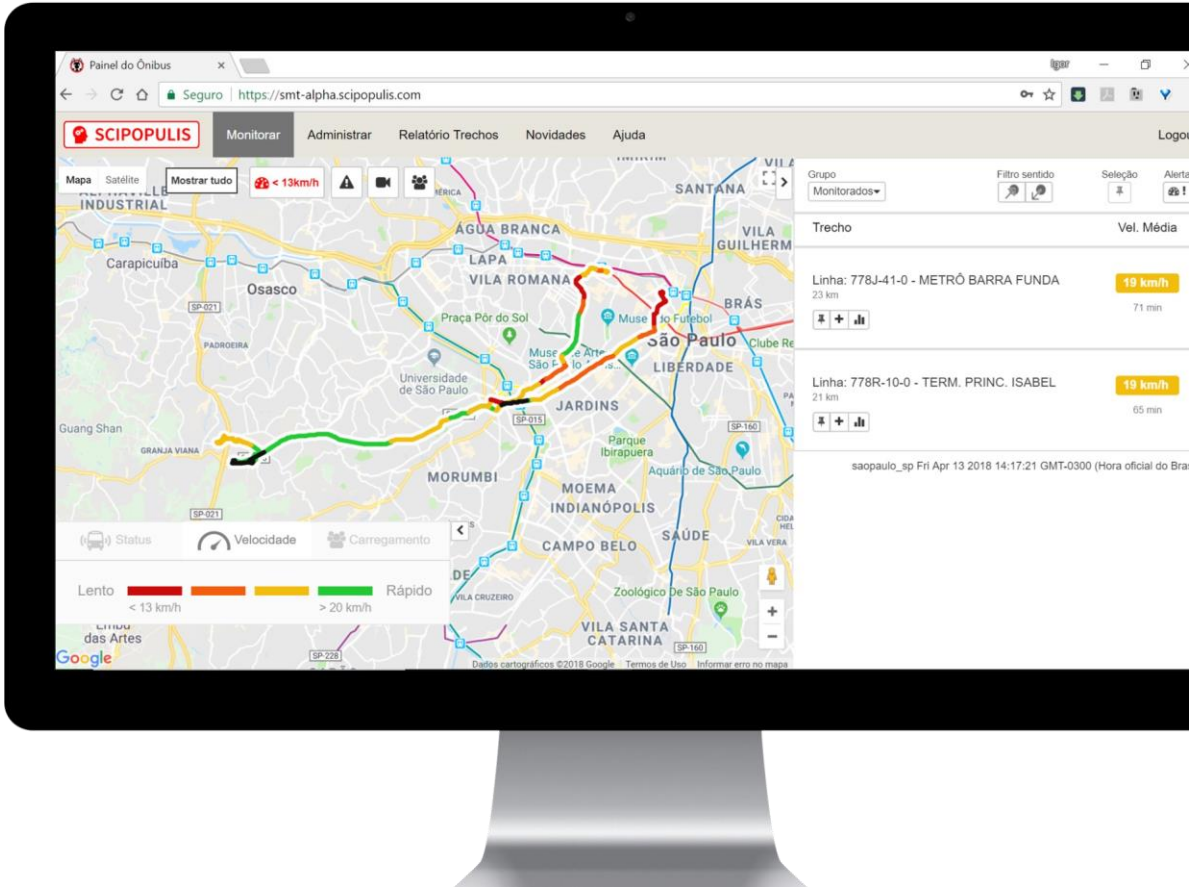


trancity

Alerts

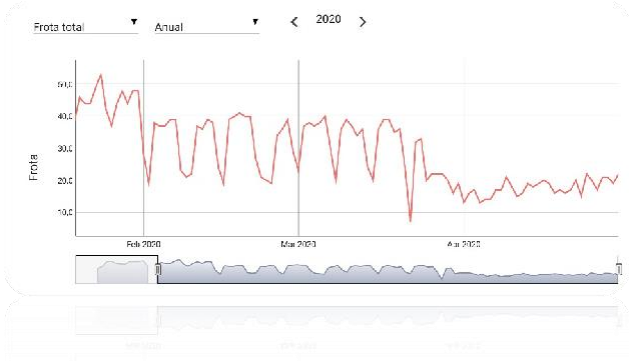
Historical and real time data

Reports comparing different time periods



TRANCITY: Applications

Working fleet



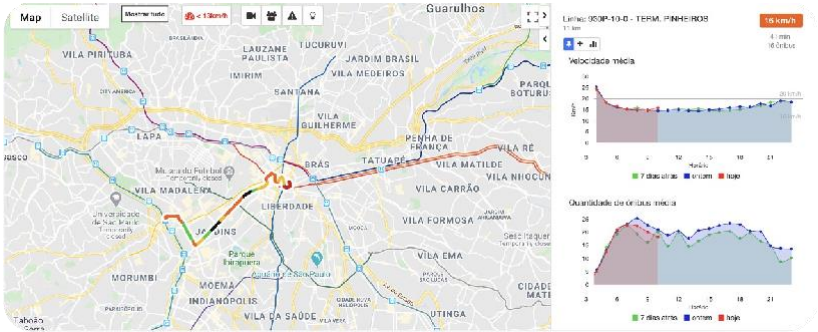
As the number of passengers vary, fleets operating each bus line must be adapted to offer a service compatible with current demand. During the pandemics this process required frequent changes on the operation. Trancity helps to monitor the fleet running each day, on each line. Public managers use that information to fine tune operation of public transport networks.

Average speed comparison

As cities started to implement social distancing measures, traffic was reduced bringing operational gains to public transport. Average speeds may vary from one day to another or even on the same day, requiring actions from public managers to maintain public transport operation.

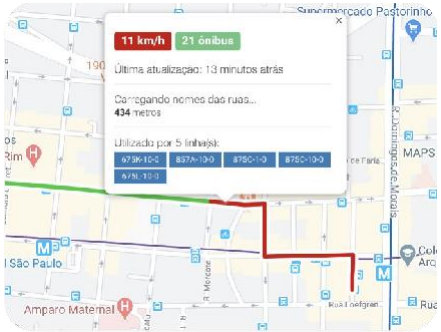
TRANCITY: Applications

Map of bottlenecks



Low average speeds are often a result of an event that impacts a larger area around it. Being able to see over the map the exact sectors with low average speed enables the user to correlate low speed sectors. Quick access plots show if that behavior is normal or extraordinary.

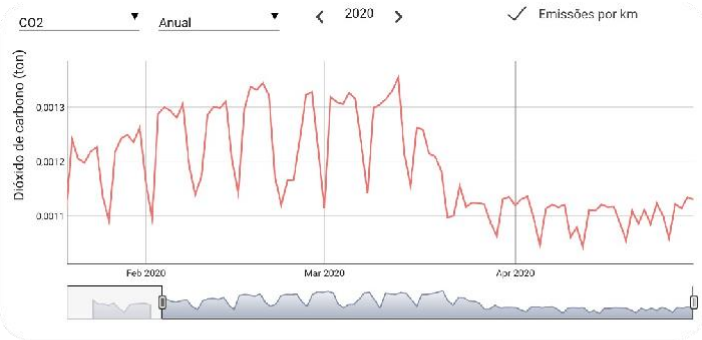
Detailed analysis



By monitoring sectors not longer than 300m, Trancity allows traffic engineers to pinpoint bottlenecks and analyze the local infrastructure for causes.

TRANCITY: Applications

Public transport emissions



Trancity implements a model for estimating the volume of emissions generated by public transport. The model can estimate not only GHG emissions, but also other pollutants such as particle matter. It is a fundamental tool to guide the electrification process and to give it more transparency.

Punctuality and regularity

Transport agencies must ensure that buses are working according to planned intervals and scheduled times. Trancity synoptic diagrams combine time intervals between buses, estimated time of arrivals and average speeds to provide users with a comprehensive view of bus operations.

trancity

Running on 12 cities: São Paulo, Rio de Janeiro, Belo Horizonte, Florianópolis, São José do Rio Preto, Jundiaí, Bragança Paulista, Santiago (Chile), Montevideo, Vilnius, Kaunas, Klaipeda, Gdansk, Varsóvia

Constantly developing new features to help cities improve operation and city planning

Open architecture that enables integration of additional data sources

Sustainable Development Goals

11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with special attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons

13.2 Integrate climate change measures into national policies, strategies and planning

10.3 Ensure equal opportunity and reduce inequalities of outcome, including by eliminating discriminatory laws, policies and practices and promoting appropriate legislation, policies and action in this regard

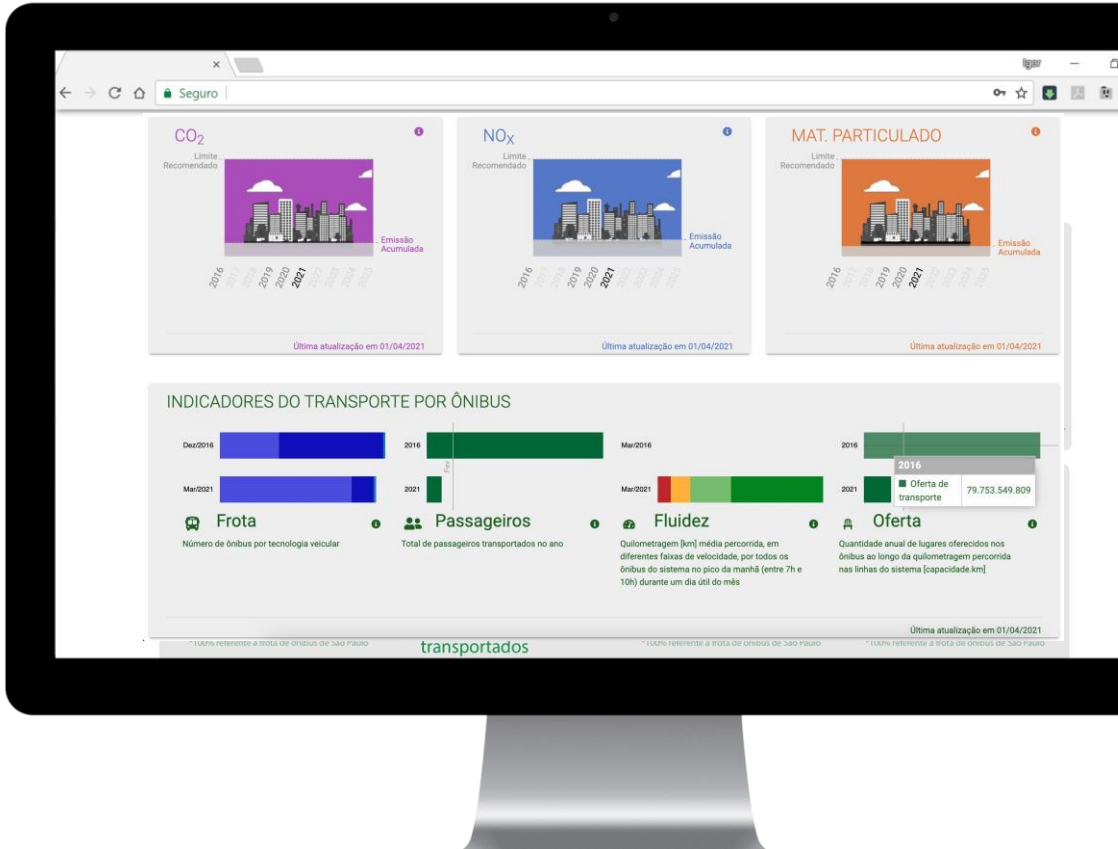
3.9 By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, water and soil pollution and contamination

Public Dashboard

- General city view based on zones
- Summary of flows and street speeds
- Comparison between bus and cars

Emissions Dashboard

Dashboard that provides public transport emissions information to citizens and non-governmental organizations.



Team

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Design

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Information Systems

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Computer Scientist

Conselho:

Julian Monteiro, PhD Computer Science

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2014

Start

Honorable Mention
Startup Farm

2015

ANTP

Technical Report
on Big Data for
Transport

PREFEITURA DE
SÃO PAULO
MOBILIDADE
E TRANSPORTES

Trancity
contract

2017

1st place
DemoDay
Mobilab

THE WORLD BANK

Ride hailing monitoring
app and dashboard

2018

Startups to Watch

Appeared on the list of
100 startups to watch

BID Banco Interamericano de Desenvolvimento

iema Instituto de Energia e Meio Ambiente

MINISTÉRIO DAS CIDADES

BRASIL PAÍS RICO É PAÍS SEM POBREZA

Public transport
emissions analysis

2019

Acquired by green4T group

2020

COVID RADAR

Offered Trancity for free as part of the efforts against COVID

2021

UN CLIMATE CHANGE CONFERENCE UK 2021

IN PARTNERSHIP WITH ITALY

Invited to COP26 Glasgow

2022

AS 100 EMPRESAS + INFLUENTES EM MOBILIDADE DE 2021

100 companies most influential in urban mobility

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