Transit Scheduling Tool

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MOTIVATION

COMFORT

- Vehicles are fitted with comfortable seats. There is sufficient number of seats available.

ACCESSIBLE

- Available in every community for all segments of society.
- Designation of stops, pick-up and drop-off points.

RELIABLE

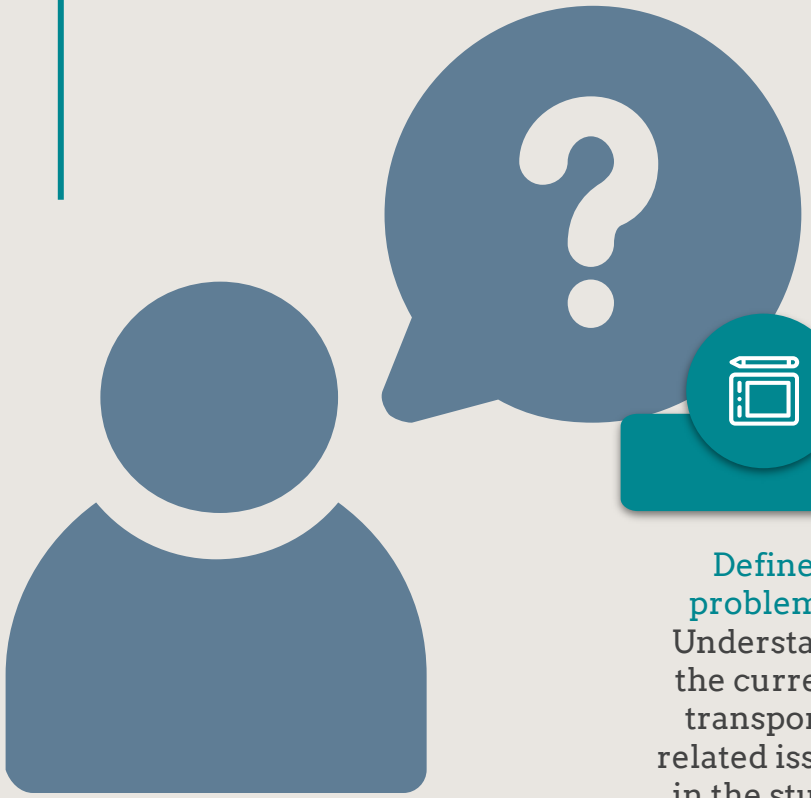
- Predictable in terms of travel and waiting time and schedule.
- Fixed dispatch time and short intervals between vehicles.

ENVIRONMENTALLY SOUND

- Vehicles have low emissions

SAFETY

- Monitoring through cameras and GPS



How can we make transport reliable?

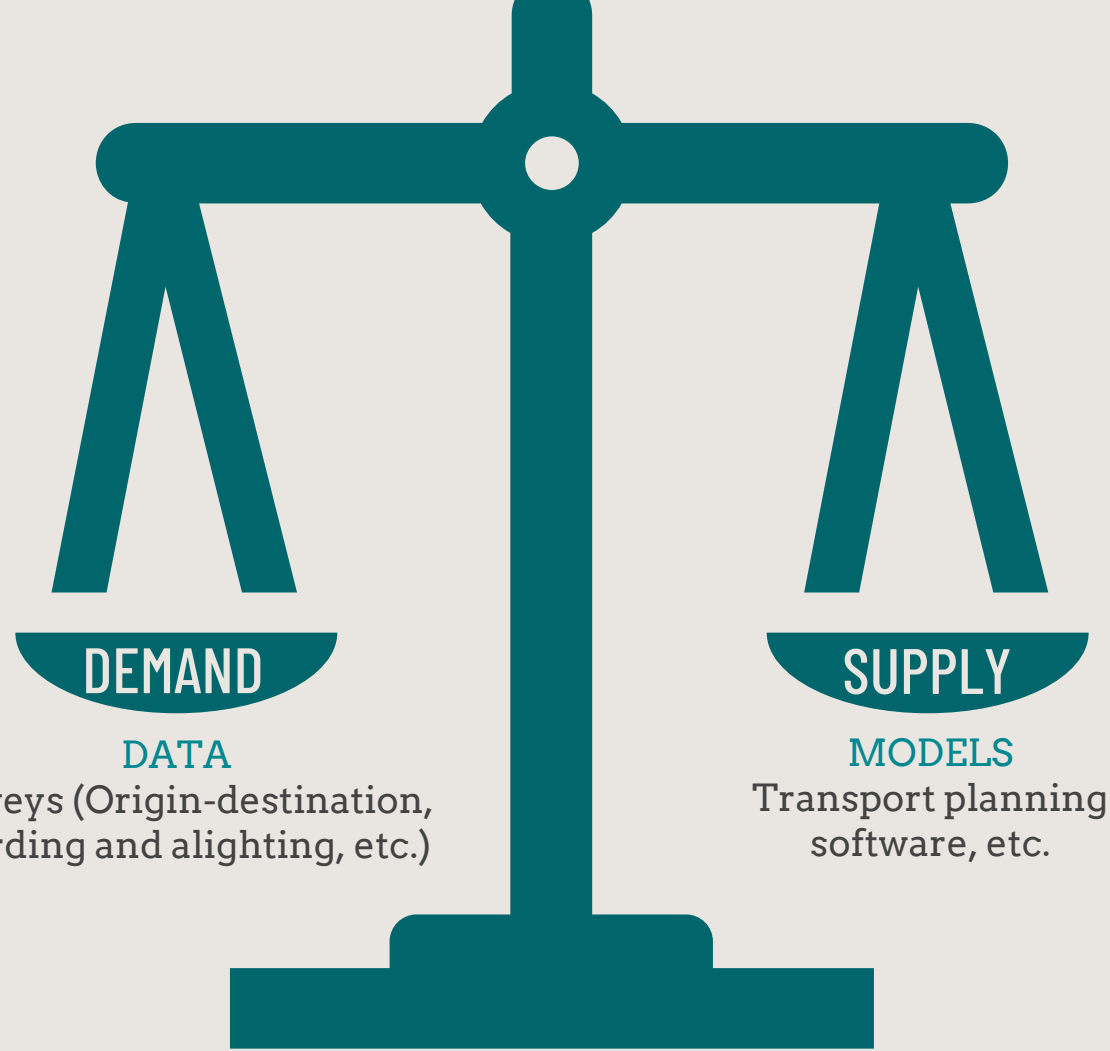
Transit route planning process:

Define problems
Understand the current transport-related issues in the study area

Setup objectives
Define the 'transport vision' of the area (include your goals and targets)

Data collection
Collect travel data and analyze to define the transport plan

Recommend
the transit supply parameters for franchise issuance



DATA

Surveys (Origin-destination, boarding and alighting, etc.)

MODELS

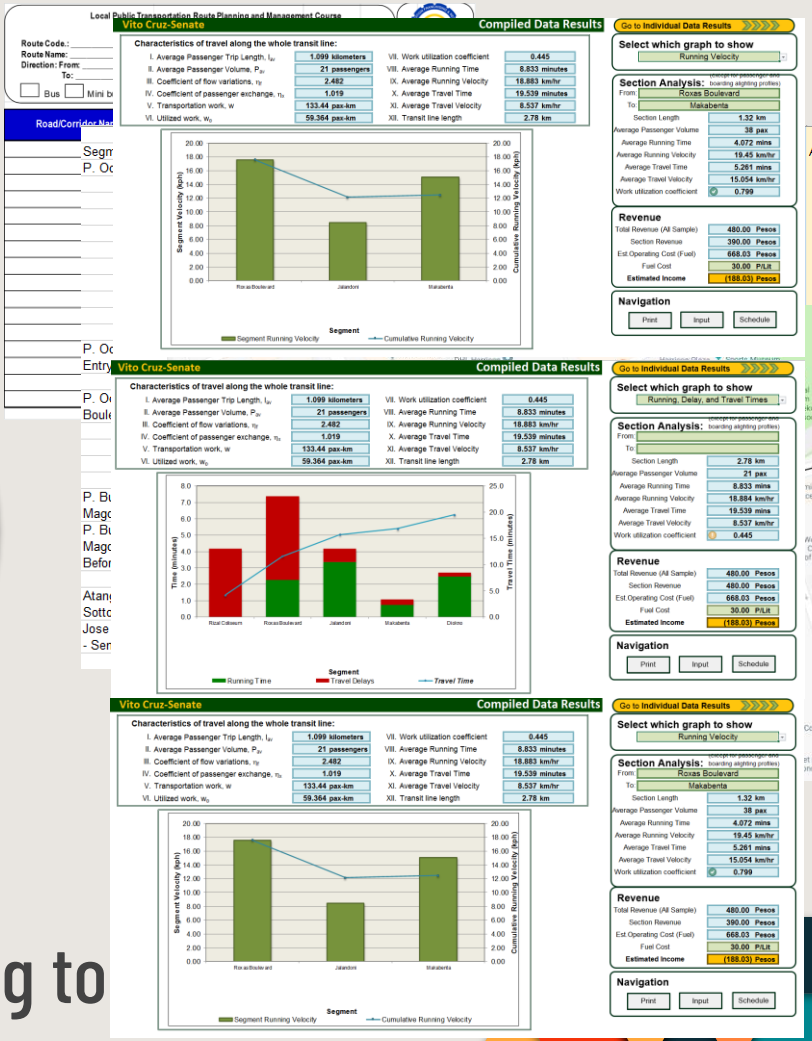
Transport planning software, etc.

Passenger movement information

Travel time information

Location

Transit performance and scheduling recommendations



Transit scheduling to

Who can use this?

Academe
Research of transit performance

Government
Planning (for LPTRP) and service evaluation

Operators
Understanding travel demand and adjustment of operations (schedule)

Current features

01

Spresadsheet software-based
The tool was developed using a spreadsheet software which allows transferability

02

Individual and aggregated transit analysis
Allows analysis of transit services at a route and individual bus level

03

Revenue calculation
Estimates revenue of services (surveyed only)

04

Timetabling
Timetabling of operations from collected data using clock headways

Under development

Stop selection
Select a stop from a pre-defined list to reduce user input

Crew/fleet scheduling
Schedule crew schedule for proper allocation

Integration with transport technologies
Integrate with developed APCs for automated analysis

LPTRP compliance
Addition of formulas to comply with LPTRP standards (route measured capacity)

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THANKS!