User Manual for Tool Transdev

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Starting Tool

To start the Transdev tool, insert https://bussie-on-its-way.streamlit.app/ into browser.

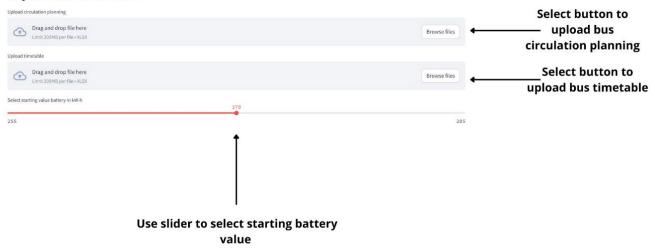
KPI

The tool uses a total of three metrics to determine the efficiency of a circulation. The total time that a bus stands idle is measured, as well as the time a bus is driving. Driving time is then separated in two, one for the time people are transported and one for when they are not. To determine the efficiency of a circulation the time of transporting people gets divided by the total time.

Tool

Upload Schedule

Input Bus Schedule



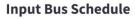
To upload the bus circulation planning, the planning must be an Excel file with the following format:

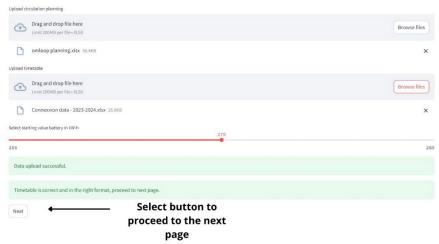
- Index: Unique identifier for each row.
- Start location: Starting location for the activity.
- End location: End location for the activity.
- Activity: A description of the activity between starting and ending locations.
- Bus line: The number of the bus line related to the activity.
- Energy consumption: The energy consumption of the activity in kWh.
- Start time: The date and time when starting the activity.
- End time: The date and time when ending the activity.
- Circulation number: The circulation number associated with the activity.

To upload the bus timetable, the timetable must be an Excel file with the following format:

- Start location: Starting location of the bus line.
- Start time: Starting time of the bus line from the starting location.
- End location: End location of the bus line.
- Bus line: The number of the bus line.

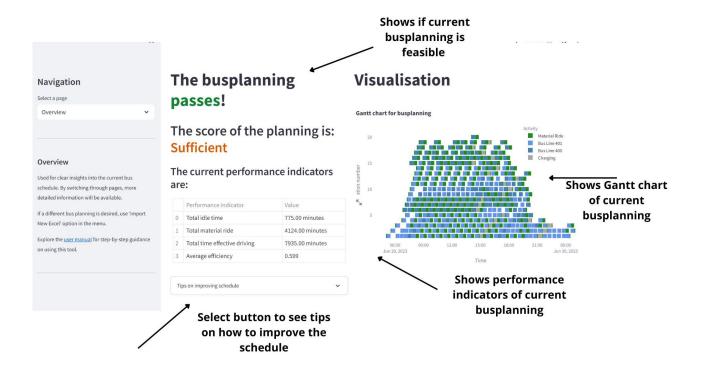
When the correct data is uploaded, the 'next' button appears.

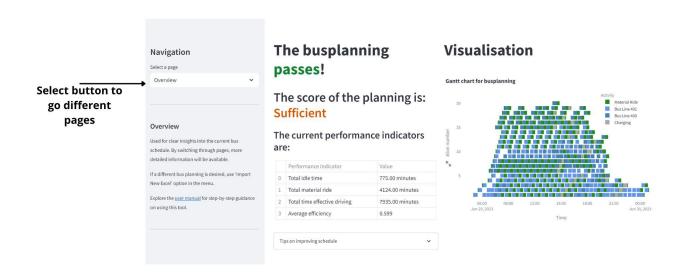


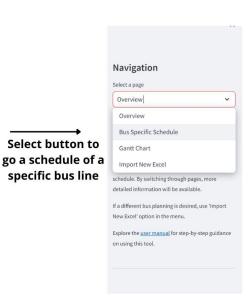


Overview

After selecting the 'Next' button, the overview screen appears.







The busplanning passes!

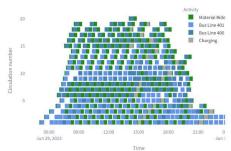
The score of the planning is: Sufficient

The current performance indicators are:

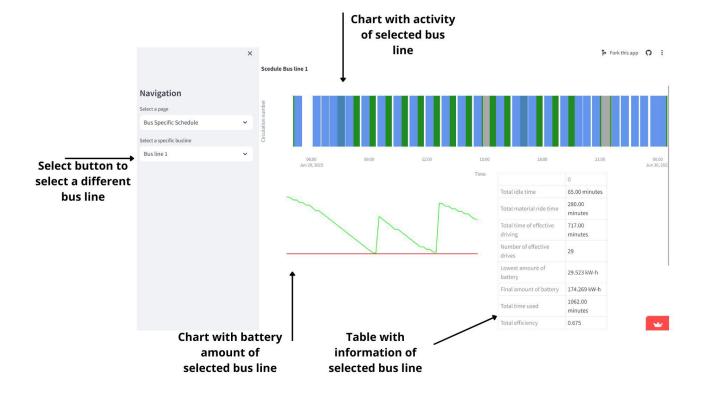


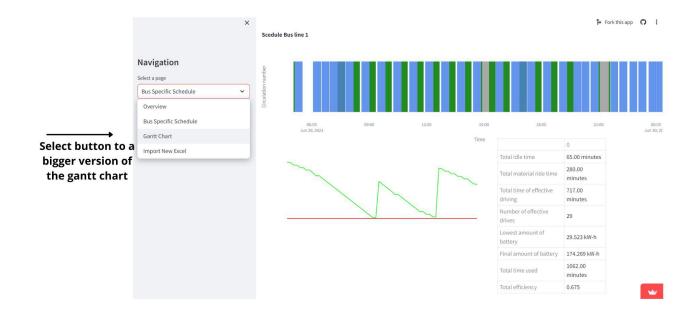
Visualisation





Bus Specific Schedule





Gantt Chart

