User Manual for Tool Bus Schedule

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Starting Tool

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

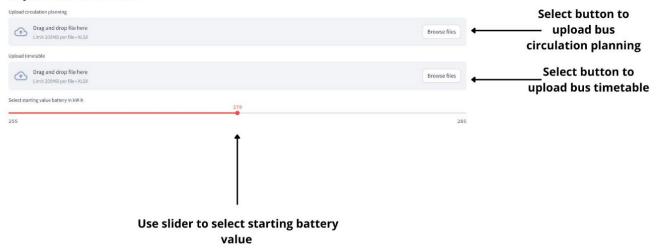
KPI

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.

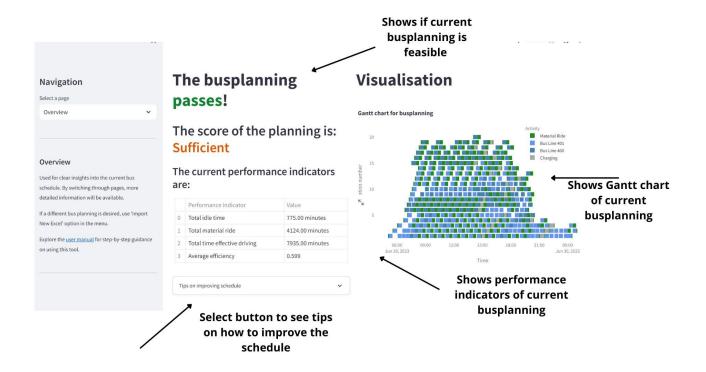
When the correct data is uploaded, the 'next' button appears.

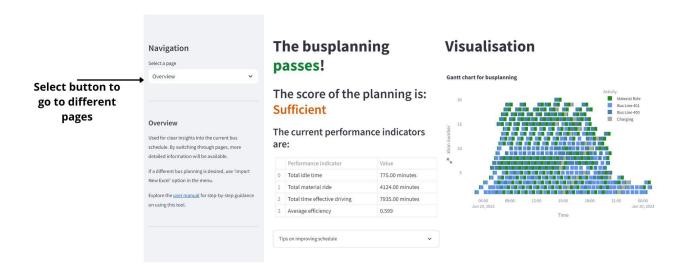
Upload circulation planning → Drag and drop file here Limit 200MB per file × XLSX → omloop planning.xlsx 56.4KB X Vuload timetable → Drag and drop file here Limit 200MB per file × XLSX → Connexxion data - 2023-2024.xlsx 25.8KB X Select starting value battery in kW-h 255 Data upload successful. Timetable is correct and in the right format, proceed to next page. Next Select button to proceed to the next

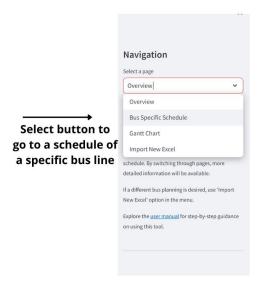
page

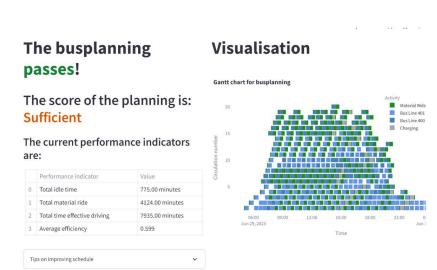
Overview

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

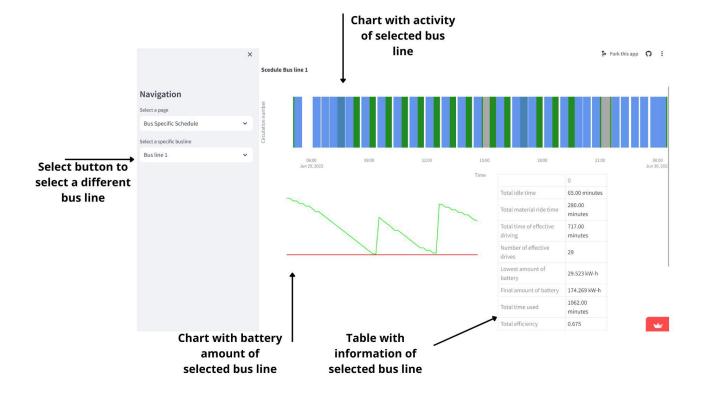


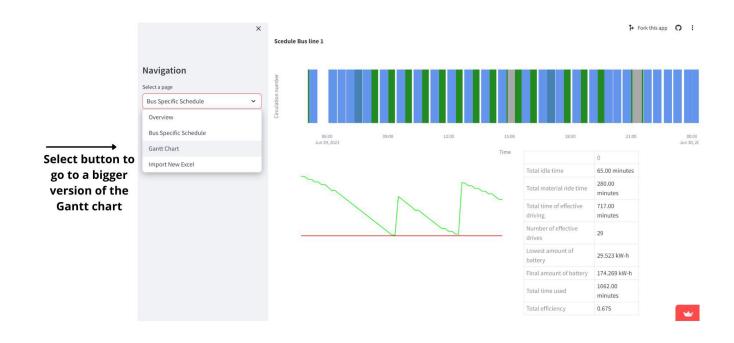






Bus Specific Schedule





Gantt Chart

