

Demand Prediction and Management Tool Step-by-step Training Guide

Transport Sector
Trieste Trasporti SPA (TT) - Italy



Content Overview



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This step-by-step guide helps users navigate the Demand Prediction and Management Tool to analyse forecast data and manage uploads. It forms part of the training materials provided for the solution, alongside the [training video](#) for the Trieste Trasporti SPA (Italy) pilot in the Transport Sector.

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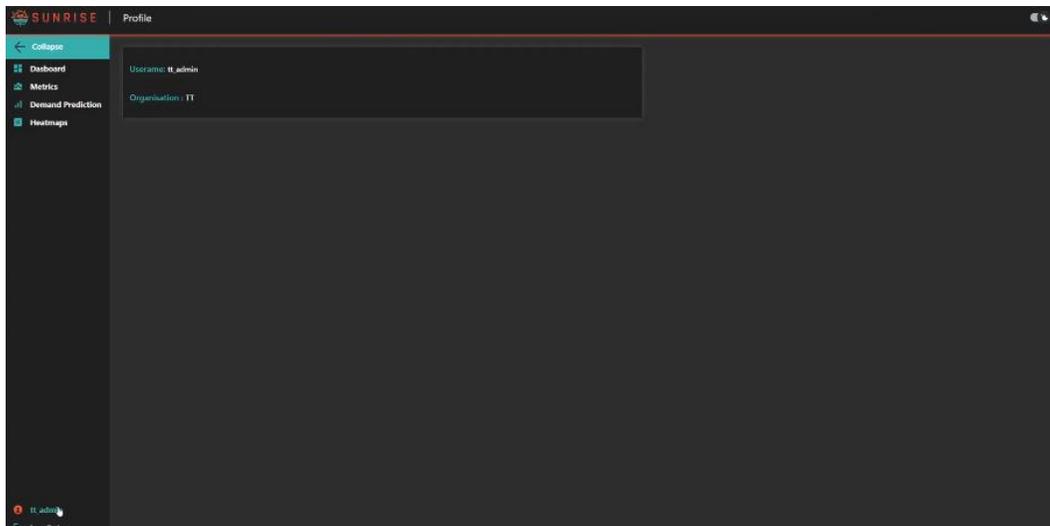
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Login & Interface



- + Begin by entering your credentials on the login screen.
- + Select the “**Remember Me**” option if you wish to stay signed in on future visits.
- + After logging in, the main dashboard loads, featuring a left-hand sidebar with navigation links and a toggle to switch between **dark and light themes**.

Dashboard Page



- + Use the dropdown menus to **filter data by bus lines or stops**. It includes **over a thousand stop options**, offering highly granular analysis capabilities.
- + Explore **interactive time series graphs** of uploaded transport-related data (E.g. trends and variations across different bus lines)
- + In some cases, **gaps or breaks** may appear in the time series due to missing data on certain days (E.g. weekends with no service on some lines).
- + You can zoom into specific time ranges and **use Ctrl + Z to reset the view** to its default zoom level.

Metrics Page



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Choose the desired categories & frequency from the options below to get the corresponding metrics.

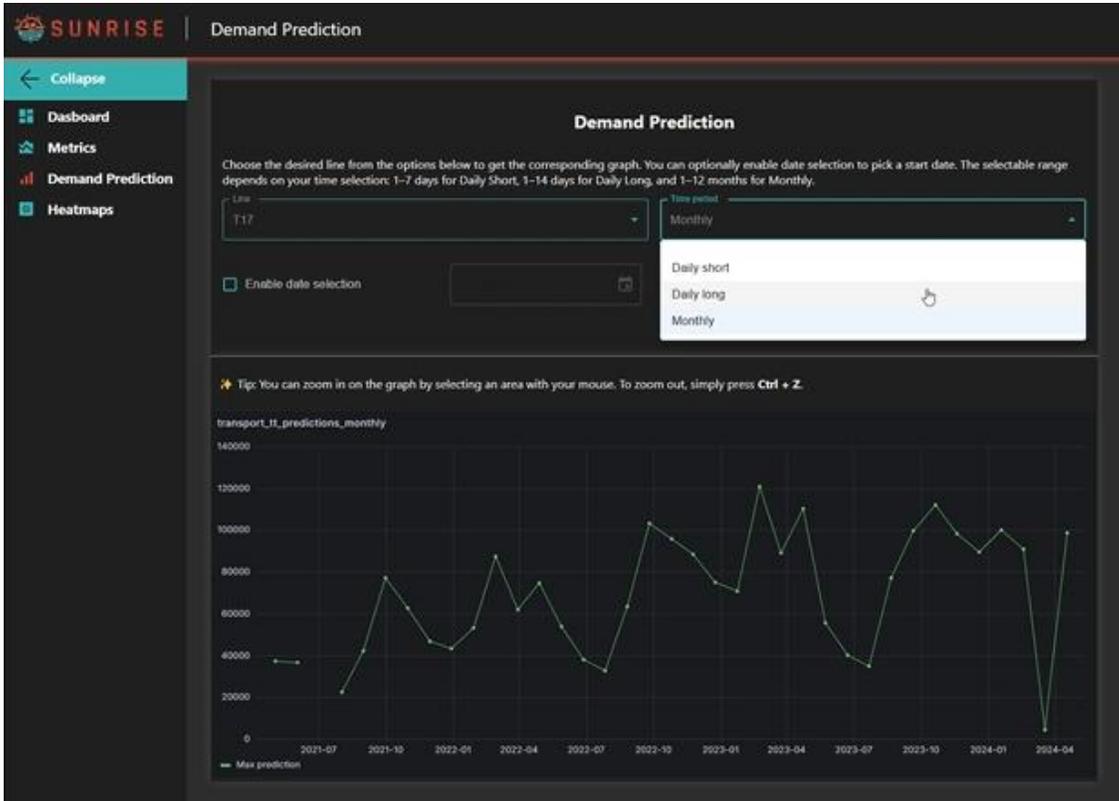
Line: T30 Frequency: Daily long

GET METRICS

Name	Value
mape	0.3854009161844264
mae	629.6828548325068
mse	604279.8128683262
r2	0.033747578302327816

- + Navigate to the Metrics section to **evaluate model performance**.
- + Apply filters to select the relevant **bus line and prediction frequency**.
- + Two dropdowns are available:
 - > **Line** to view forecasts which predict passenger numbers over time.
 - > **Frequency to** to set the prediction frequency and time scale (e.g., hourly, daily, weekly).
- + Access performance metrics such as:
 - > **RMSE** (Root Mean Squared Error)
 - > **MAPE** (Mean Absolute Percentage Error)are displayed in a structured table for easy comparison.

Demand Prediction Page

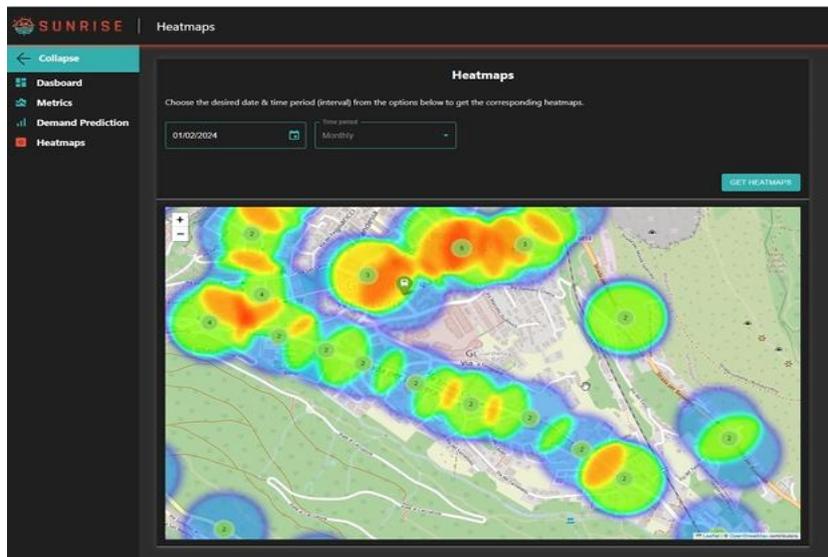
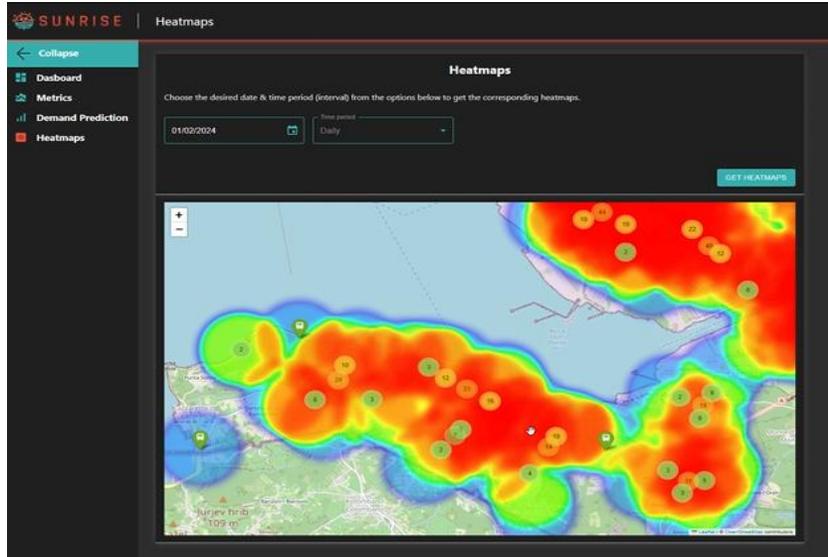


- + Go to the Demand Prediction page and select a **bus line and forecast time interval** to view upcoming demand projections (daily short, daily long and monthly).
- + A **forecast graph** shows future demand.
- + You can zoom in and use **Ctrl + Z** to reset the **view** to its default zoom level.

Heatmaps

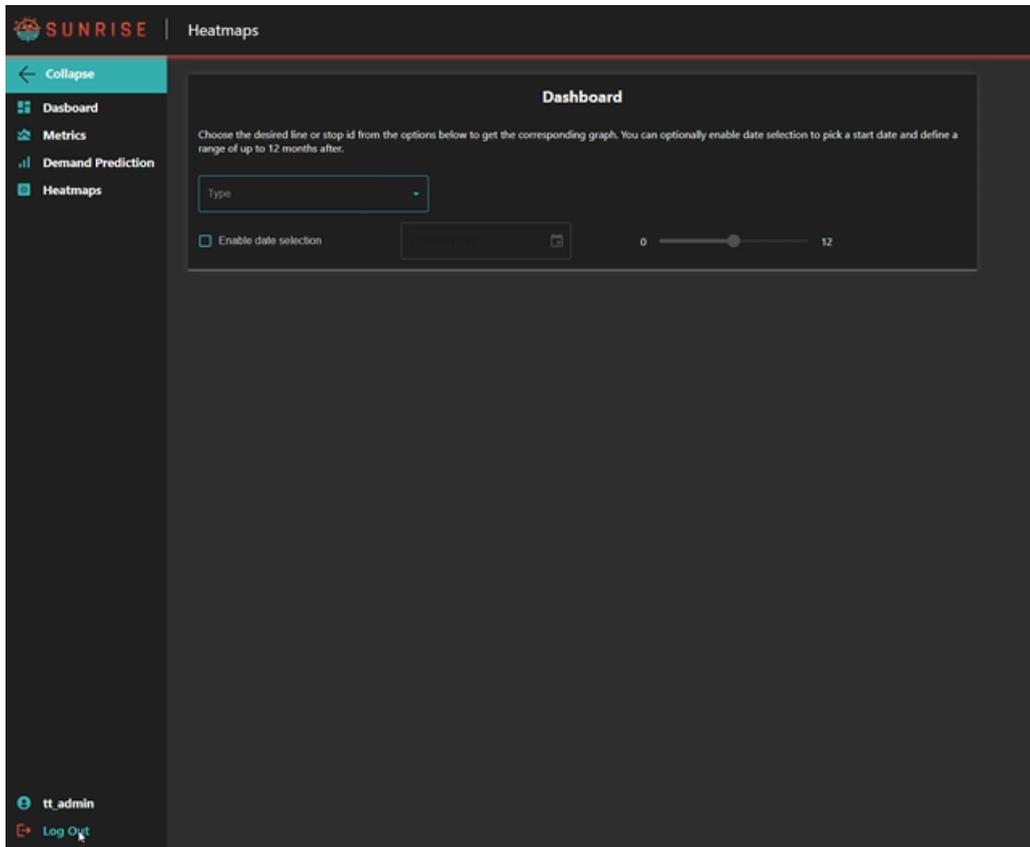


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- + Navigate to the Heatmaps section to explore metro demand visually across the full network.
- + Select a specific date within the historical data range. Use the dropdown to choose an aggregation level (e.g., hourly, daily).
- + An interactive heatmap appears, displaying the number of passengers by line for the selected period.
- + This view helps identify peak usage times, trends, and anomalies in demand across the network.
- + You can zoom and use **Ctrl + Z** to reset the view.

Logout



- + When finished, simply click to **log out** and end your session securely.



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Thank you for following the training.

For more information:
<https://sunrise-europe.eu/>



This project has received funding from the European Union's Horizon Europe research and innovation programme under Grant Agreement No. 101073821

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