



## IDF\_06 : Observatory of mobility for Versailles agglomeration

### Activities towards demonstration (*How?*)

#### Preliminary works [2024-05 to 2025-03]

##### Implementation of new data sources into the dashboard, data refinement data and analysis

Several data sources will be included in the observatory at the time of the demonstration:

- Traffic jam and alerts (Provided by Waze)
- Air quality measures (Provided by VGP, sourced on local air quality stations)
- Counting by AI enhanced cameras (Provided by VGP, sourced on Aliss or Cliris vendors)
- Weather info (Provided by VGP, sourced on national weather API)
- Infrastructure: Bicycle path, bus stops, bus lines, railway, roads, areas, etc. (Provided by VGP)

##### Extraction, transformation and definition from raw data to useful widgets

Based on each data source, an ETL (Extract, Transform and Load) software has been specially developed to query, transform and store the data in a meaningful way to be used by widgets in the observatory.

ETL software will be specific to the local data source of each pilot city. The data model used for the observatory and its widgets will be generic for all cities. Based on the widgets and the analysis domains, a data model will be provided for each type of data.

Each ETL will be triggered on a specific frequency to refresh the data at different stages. The back office of the observatory will let users define the frequency and specific parameters and have an overview of all ETL runs and results.

#### Deployment and integration [2024-04 to 2025-06]

##### Deployment of the dashboard

The observatory will be deployed on VGP IT infrastructure to run locally in production conditions.

Minimal configuration required:

- 1 Virtual machine to host the solution
- Storage capacity: 100 Go
- RAM: 16 Go
- CPU: 4
- Operating system: Linux server Ubuntu versions 20.04+
- Docker version: 24+
- Remote access to the server for maintenance

#### Demonstration activities [2025-06 to 2025-12]

##### Workshop and training on how to use the dashboard

Technical documentation on how to deploy, run and maintain the solution will be provided by Redlab.



Master data (cities, maps, locations, colours, customization, ...) will be integrated at initial load

ETL will be deployed and configured to run on proper frequency based on VGP expectation.

A training will be conducted to solution administrators to understand the key concept and features of the solution (back office management).

A training and a user procedure will be given by Redlab to end user on how to customize their widgets and navigate through the observatory.

Data collection and validation

Key users will have to perform users acceptance tests to validate that data collected are correctly integrated in the observatory. VGP administrators will focus on UAT related to the global stability of the observatory (ETL and tasks running in background).

**Timeline for implementation and demonstration (When?)**

UPPER	Jul-2024	Aug-2024	Sep-2024	Oct-2024	Nov-2024	Dec-2024	Jan-2025	Feb-2025	Mar-2025	Apr-2025	May-2025	Jun-2025	Jul-2025	Aug-2025	Sep-2025	Oct-2025	Nov-2025	Dec-2025	Jan-2026	Feb-2026	Mar-2026	Apr-2026	May-2026	Jun-2026	Jul-2026	Aug-2026	Sep-2026	Oct-2026	Nov-2026	Dec-2026		
<b>General planning for IDF_06</b>	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active
<b>Preliminary works</b>	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active
<i>Implementation of new data sources into the dashboard, data refinement data and analysis</i>	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active
<i>Extraction, transformation and definition from raw data to useful widgets</i>	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active
<b>Deployment and integration</b>	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active
<i>Deployment of the dashboard</i>	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active
<b>Demonstration activities</b>	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active
<i>Workshop and training on how to use the dashboard</i>	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active
<i>Data collection and validation</i>	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active
<b>Results evaluation</b>	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active	Active

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