



Dynamic Dashboard Sync

API & Data Visualization
Integration

EXTENSION DESCRIPTION

<p>AS - IS Single-dimensional softwares</p>	<ul style="list-style-type: none"> • Tableau software is used solely for data visualization • R/Python software is used only as a computational tool • R-Shiny and Dash are tools capable of both data visualization and computation, but they can be challenging to program in terms of time, organization, and business aspects.
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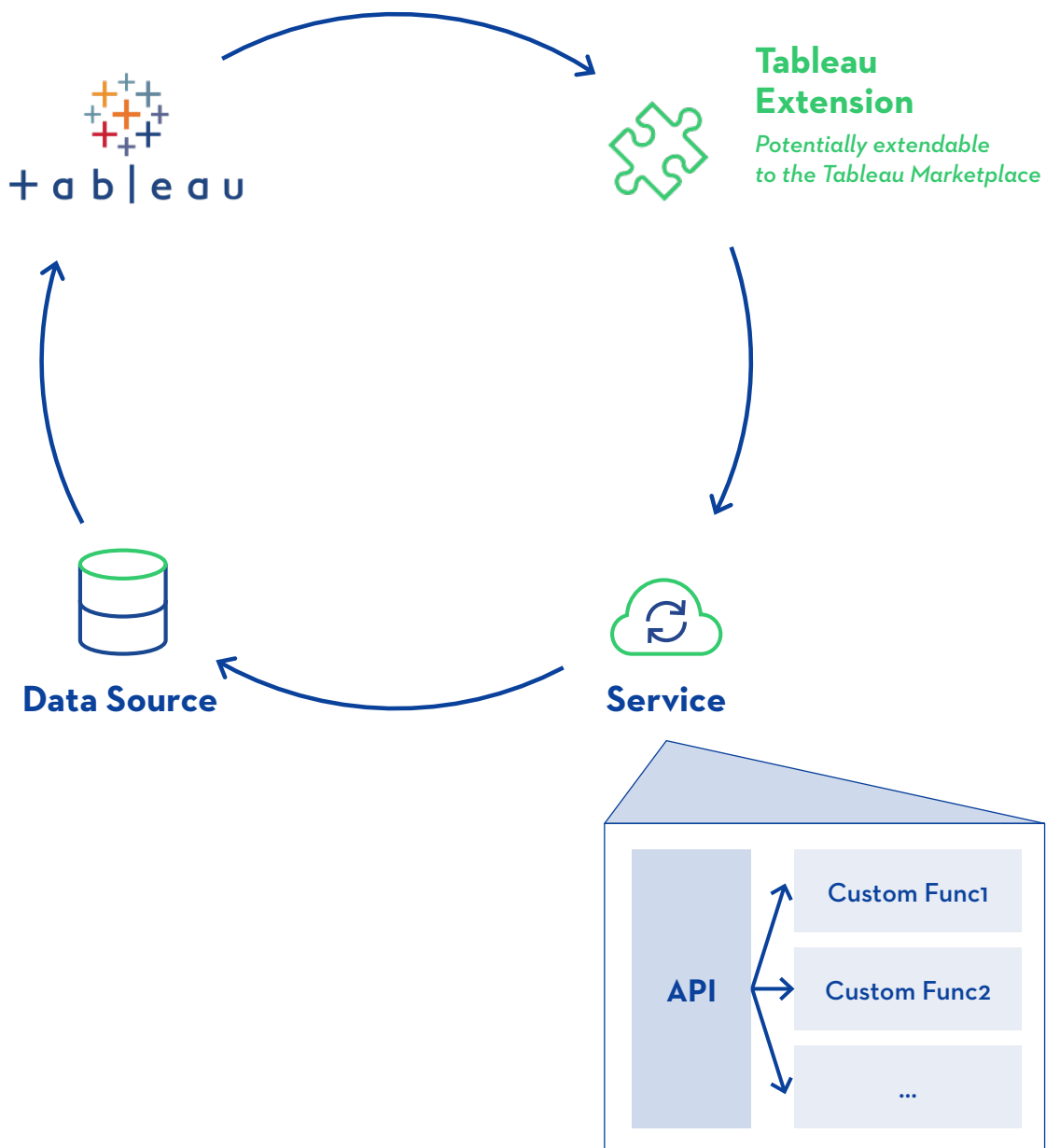


<p>ADD ON Offered in Tableau</p>	<ul style="list-style-type: none"> • Improved Dashboard usability • Interactive Calculations Ability • Increased Analytics potential • Simplification of calculation and Tableau Workbook • Development simplification, even for non-expert users
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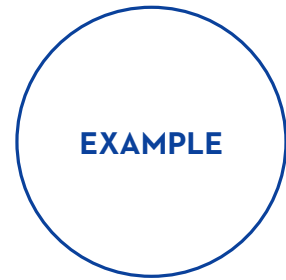


<p>TO BE Aggregated software</p>	<ul style="list-style-type: none"> • An integrated tool that incorporates both Data Visualization and Analytics functionalities. • Ease and speed in building dashboards through leading software and market standards for Data Visualization. • Advanced analysis and calculations using familiar skills with tools like R and Python.
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Extension Integration



Extension FrontEnd



	Start Zone	End Zone
# Analyzed areas	138	
Financial	100	6
Price MQ	56	2
Population Density	74	2
Business Zone	100	6
Urbanization	107	4

INTERACTIVE UPDATE:

- Drag & drop
- Click "Run"
- Table and visualization update

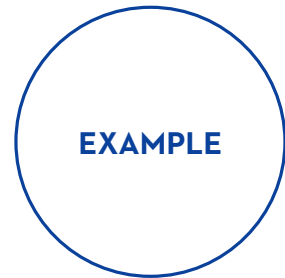
Objects

<input type="checkbox"/> Horizontal	<input type="checkbox"/> Blank
<input type="checkbox"/> Vertical	<input type="checkbox"/> Navigation
<input type="checkbox"/> Text	<input type="checkbox"/> Download
<input type="checkbox"/> Image	<input type="checkbox"/> Extension
<input type="checkbox"/> Web Page	<input type="checkbox"/> Ask Data

Tiled Floating

Show dashboard title

Extension Configuration



Service:

Configurations needed for invoking the API (e.g. its URL) and the relative function that will update the datasets. The function can be implemented in any programming language.

Parameters:

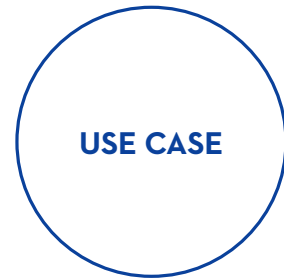
Form fields on the Tableau dashboard (if any) whose values will be passed to the function as additional parameters.

Data Source:

Data sources that must be updated after executing the function.

Service	Parameters	Data Source
<p><input type="text" value="http://localhost:8000/service"/></p> <p>Function to call:</p> <p><input type="text" value="func_enginev3.tableau_enc"/></p> <p>Api Key:</p> <p><input type="text"/></p> <p>Button Text:</p> <p><input type="text"/></p> <p>Font Size:</p> <p><input type="text" value="18"/></p>	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> ads_zone <input type="checkbox"/> Quartiere <input checked="" type="checkbox"/> numero_competitor <input checked="" type="checkbox"/> type_layer <input type="checkbox"/> User <input type="checkbox"/> Enter your Password <input type="checkbox"/> type_filiale <input checked="" type="checkbox"/> latitude <input checked="" type="checkbox"/> optimun_parameters <input checked="" type="checkbox"/> distance_ricollocations <input checked="" type="checkbox"/> area_operativita <input checked="" type="checkbox"/> parking <input checked="" type="checkbox"/> sel_filiale <input type="checkbox"/> Filiale_Sel <input checked="" type="checkbox"/> longitude 	<ul style="list-style-type: none"> <input checked="" type="checkbox"/> best_performed (tableau_extension) <input checked="" type="checkbox"/> start_end_isocrone <input checked="" type="checkbox"/> tab_sport_tot <input checked="" type="checkbox"/> optimun_type (demotableau.optimun_type)

Location Intelligence



This use case aims to support a point of sale in choosing the best area to open or relocate based on the sector and its specific characteristics. With only data visualization, we would have been able to represent exclusively the data present in our datasource without being able to perform real-time simulations. Instead, with our extension, the client can modify parameters that, working in real-time, change the data source both in rows and columns, transforming Tableau into a reactive software.




Rank KPI	Value
Financial	251
Price/MQ	27
Population density	106
Business Zone	4
Urbanization	486



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