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Dynamic Dashboard Sync

API & DataVisualization Integration

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EXTENSION DESCRIPTION

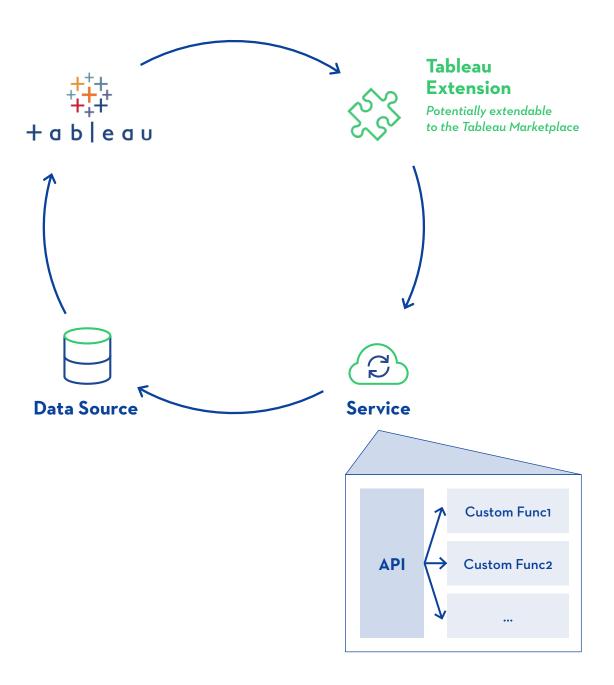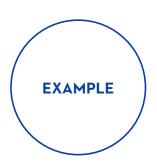|	
AS - IS **Single-dimensional softwares**	• Tableau software is used solely for data visualization • R/Python software is used only as a computational tool • R-Shiny and Dash are tools capable of both data visualization and computation, but they can be challenging to program in terms of time, organization, and business aspects.
ADD ON **Offered in Tableau**	• Improved Dashboard usability • Interactive Calculations Ability • Increased Analytics potential • Simplification of calculation and Tableau Workbook • Development simplification, even for non-expert users
TO BE **Aggregated software**	• 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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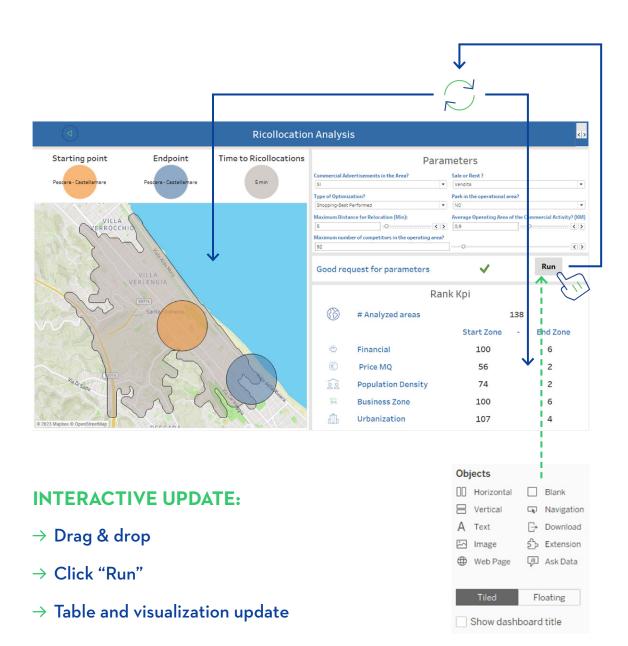# Extension Integration

WORKFLOW

Tableau Extension

Potentially extendable to the Tableau Marketplace

Data Source

Service

API

Custom Func1

Custom Func2

...

Extension FrontEnd

EXAMPLE

INTERACTIVE UPDATE:

→ Drag & drop

→ Click "Run"

→ Table and visualization update

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Extension Configuration

EXAMPLE

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.

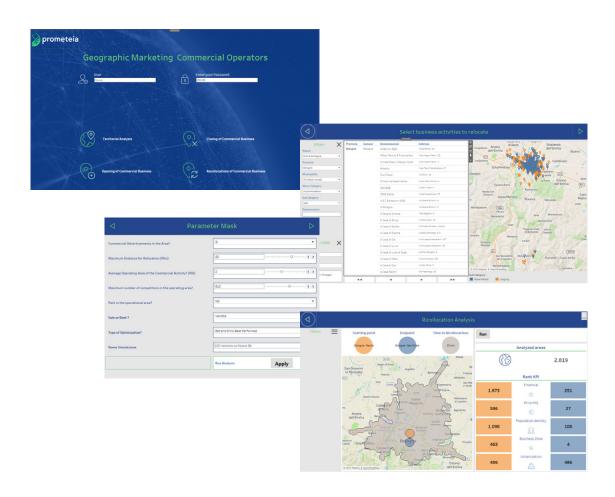| Service	Parameters	Data Source
http://localhost:8000/service Function to call: func_enginev3.tableau_eng Api Key: Button Text: Font Size: 18	☑ads_zone ☐Quartiere ☑numero_competitor ☑type_layer ☐User ☐Enter your Password ☐type_filiale ☑latitude ☑optimun_parameters ☑distance_ricollocations ☑area_operativita ☑parking ☑sel_filiale ☐Filiale_Sel ☑longitude	☑best_performed (tableau_extension) ☑start_end_isocrone ☑tab_sport_tot ☑optimun_type (demotableau.optimun_type)

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Location Intelligence

USE CASE

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.

+ tableau

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