

Integration Document

To the TRESA developers and staff,

We are excited to present to you a comprehensive guide on how to seamlessly integrate and utilize the product we have developed for TRESA within the WordPress platform. Our product aims to provide a user-friendly interface for managing public and private green spaces within the Totterdown Urban Nature Reserve.

Objective:

This guide outlines the step-by-step process for integrating the TRESA mapping solution into your system environment, including seamless integration with a WordPress website using custom code.

Prerequisites:

Access to the TRESA mapping solution codebase.

Familiarity with basic web development concepts.

Admin access to the WordPress website where the mapping solution will be integrated.

Steps:

Download Codebase:

Obtain the TRESA mapping solution codebase from the provided source.

Ensure that all necessary files, including PHP scripts, JavaScript, and CSS files, are included in the download.

File Structure:

Decide where to place the TRESA mapping solution codebase within your system environment.

Organize the files in a directory structure that aligns with your system's architecture.

Configuration:

Open the config.php file included in the codebase.

Update configuration settings such as API keys, database connection details, and any other environment-specific variables.

A Google Maps API key is essential for the mapping application to work. More information about getting a Google Maps API key can be found [here](#). Within the file config.php there is a section as seen below:

```
//Google Maps API Key
$api_key = '<script src="https://maps.googleapis.com/maps/api/js?key=YOUR_API_KEY_HERE&libraries=geometry"></script>';
```

Please replace the 'YOUR_API_KEY_HERE' text with your own Google Maps API key.

Database Setup:

Ensure that the TRESA mapping solution has access to the required database tables.

If necessary, import or set up the database schema according to the provided SQL files or instructions.

To implement a database on the website the phpMyAdmin plugin should be used. Within this plugin a database called 'tresadb' should be created, and from there the tresadb.sql file can be imported to create a fully functioning database.

WordPress Integration:

Decide where within your WordPress website you want to display the TRESA map.

Open the appropriate WordPress theme files (e.g., header.php, footer.php, functions.php) where you want to include the mapping solution.

Embedding Code:

Copy the PHP code responsible for rendering the TRESA map from the provided codebase.

Paste the PHP code into the desired location within your WordPress theme files.

Ensure that the PHP code is properly integrated with WordPress functions and hooks as needed.

Customization:

Customize the appearance and behavior of the TRESA mapping solution to align with your website's design and functionality.

Modify CSS styles, marker icons, map colors, and other visual elements as necessary.

Testing:

Thoroughly test the integrated mapping solution within your system environment.

Verify that the map displays correctly, markers are placed accurately, and user interactions function as expected.

Test across different devices, browsers, and screen sizes to ensure compatibility and responsiveness.

Documentation:

Document the integration process, including any customizations or modifications made to the codebase.

Provide detailed instructions for TRESA staff on how to manage and update the mapping solution within the WordPress environment.

Training:

Offer training sessions or tutorials to familiarize staff with the usage and maintenance of the mapping solution.

Highlight key features, functionality, and best practices for managing green spaces within the Totterdown Urban Nature Reserve.