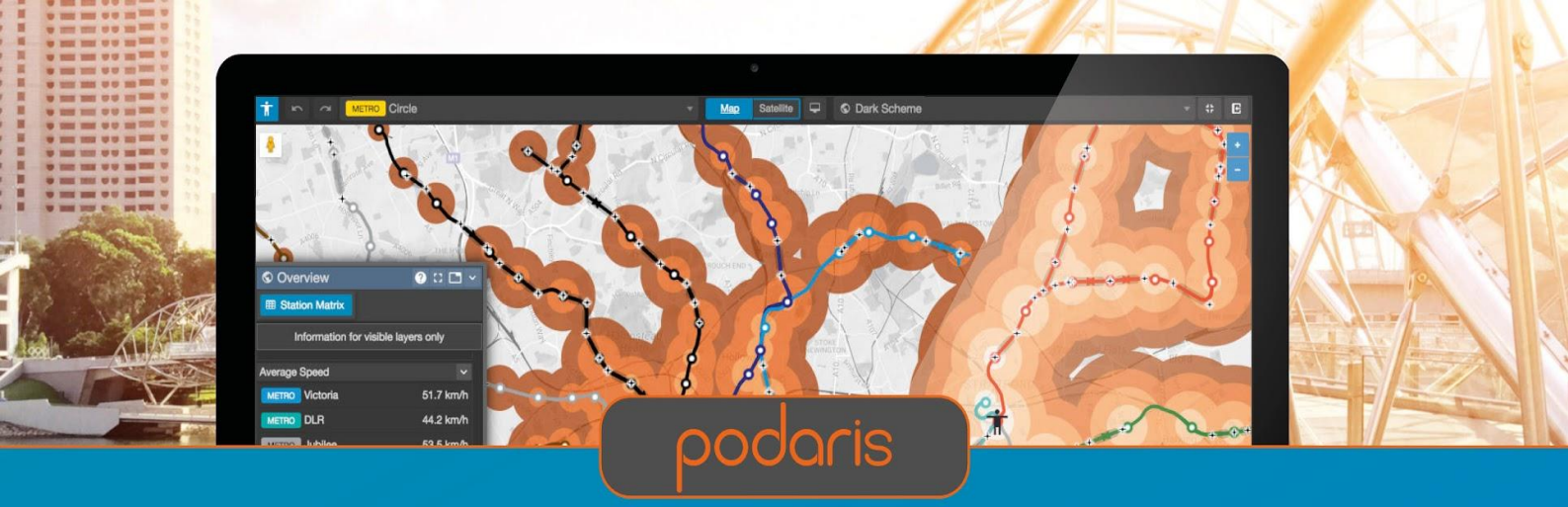

Podaris:Enterprise

G-Cloud 15

Service Definition

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Introduction

When planning transport changes, meeting everyone's needs means balancing the concerns of many different disciplines, technologies, institutions, and stakeholders — throughout the lifecycle of the network. Traditional planning, engineering, and analysis tools don't make this easy. They are too slow, only accessible by experts, and don't play well together.

Designed from the ground up for interdisciplinary collaboration, rapid-iteration scenario creation, and easy interoperability with other planning and scheduling tools, Podaris makes transport analysis and optioneering faster and easier than ever. Our platform combines rapid-iteration scenario creation, powerful analysis capabilities, and seamless interoperability with other tools – improving productivity, accelerating innovation, and enhancing accuracy – making it easier than ever before to surface the insights that decision makers need.

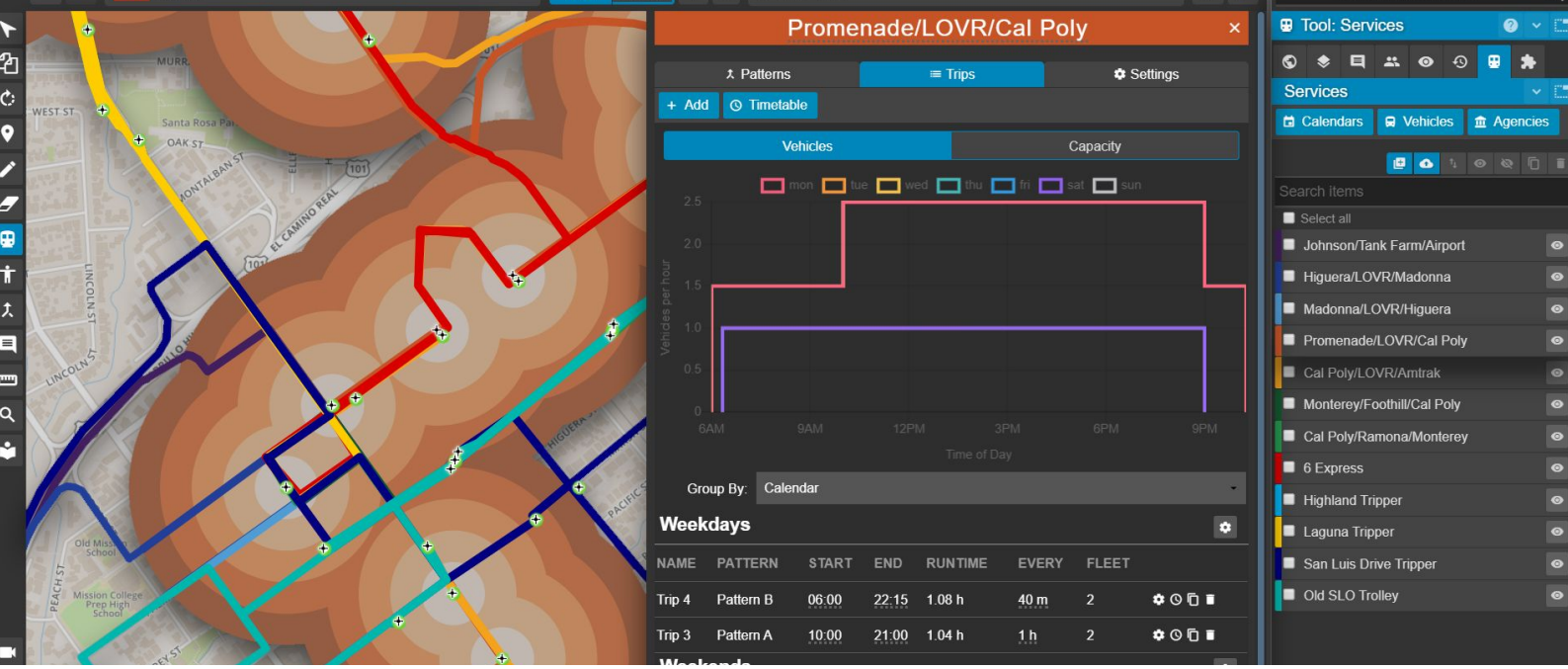
Goals

1. **Improve high-level planning:** **Podaris:Plan** is a web application which enables rapid-iteration design and analysis of multimodal transport scenarios, giving planners the ability to rapidly work with greater speed and confidence.

2. **Support stakeholder engagement:** **Podaris:Engage** allows you to share selected scenarios with stakeholders, helping them to understand the benefits and impacts, and to provide structured, constructive feedback.

3. **Streamline accessibility analysis**: **Podaris:Insight** helps you generate reliable insights into the impacts of transport decisions through industry-standard and emerging accessibility metrics, from simple isochrones to sophisticated multi-modal indicators. An intuitive user interface backed by Cloud-based computation enables large-scale analyses to be undertaken with unprecedented ease and speed.

4. **Enhance collaboration:** All aspects of the podaris platform can be used by multiple users in real-time collaboration, shared with non-users via interactive web interfaces, and integrated via the API with third-party tools and overall transport / GIS workflows. The aim is to facilitate seamless interoperability between tools, disciplines, stakeholders, and decision makers – eliminating the frictions which are so often detrimental to transport projects.



Included Features

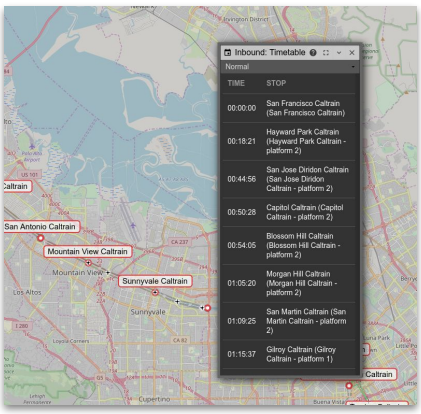
Podaris is a powerful cost-effective platform for high-level transport planning and analysis. Out of the box, it provides you with powerful tools to get quick answers to key questions. Below are some of the key features and capabilities that will be included in your subscription:

- **CREATE UNLIMITED PROJECTS FOR ANY SCHEME OR IDEA**
- **IMPORT AND EXPORT DATA USING COMMON FORMATS**
- **YOUR OWN BRANDED PORTAL FOR STAKEHOLDER ENGAGEMENT**
- **EASY-TO-USE GEOREFERENCER TO CREATE MAPS FROM PLANS**
- **ADVANCED CLOUD-BASED VERSION CONTROL**
- **COLLABORATION BY DEFAULT FOR STAFF AND CONSULTANTS**

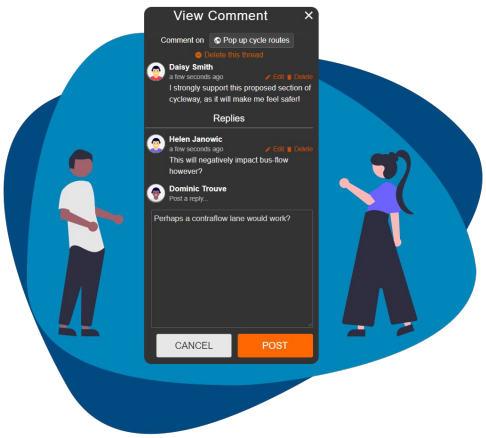
- Drag-and-drop bus route planning
- Interactive high-level service scheduling
- Multi-modal transport planning with support for custom transport modes
- Sophisticated parametric modelling tools for fixed infrastructure systems
- Generation of accurate velocity profiles
- Instant isochrones and advanced demographic analysis through isochrone queries
- Ridership projections
- Agent-based simulation engine for fare strategy testing and analysis
- Instant KPI calculations (revenue distance, fleet size, runtime, journey time, etc)
- Visualise network changes and route deviations for rapid what-if analysis
- Built-in street network for route planning and analysis
- Create and edit GIS datasets directly
- Create and manage scenarios using views
- Calculate operating costs for scenarios
- Multiple map, satellite, and terrain imagery providers included
- Unlimited import/export of common transport formats, such as GTFS, TransXChange
- Unlimited import/export of common GIS formats, including GeoJSON, Shapefiles, CSV, KML
- Public API for developing integrations
- Regular feature updates and improvements
- Branded customer portal and shared organisational assets
- Unlimited high-resolution image export (PNG)
- Georeferencing of raster imagery for custom tilesets and map overlays
- Collect geolocated stakeholder feedback through comments
- Optional Single-Sign-On system integration

Bus Planning and Analysis with Podaris

Podaris makes it simple to rapidly create route and service designs, and understand their interactions with development and land-use scenarios. From ordinary bus routes to innovative DRT services, the drag-and-drop interface makes transport planning easy and accessible, empowering all officers to design, analyse, and appraise schemes in moments, and then share them with key stakeholders.

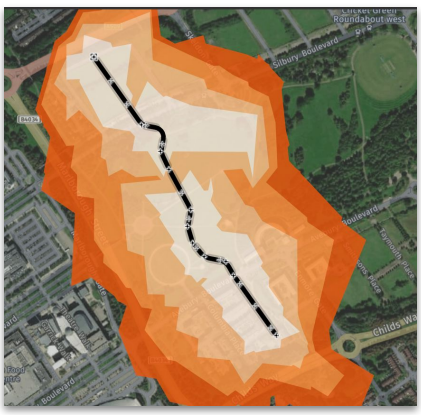


Improve early-stage planning: **Podaris:Plan** is a complete toolkit for multimodal planning and scheduling, enabling easy exploration of scenarios — from route alignments to varying levels of segregation, or even service-level changes. Intuitive tools make it easy to plan interventions, and Podaris uses past traffic data to help you accurately plan routes with little effort.



Support stakeholder engagement: **Podaris:Engage** is a presentational window into any project created with **Podaris:Plan**. It's a seamless way to showcase networks, services, and development scenarios created with **Podaris:Plan**, and generate immediate feedback from selected groups of stakeholders — enhancing dialogue and accelerating project delivery.

Advanced geospatial analysis: Harness the power of datasets to perform advanced demographic analysis and understand the real-world impacts of your interventions. Guide your plans by calculating the reach of schemes with connectivity analysis tools, to quantify key metrics such as potential ridership, access to jobs, and changes in travel times.



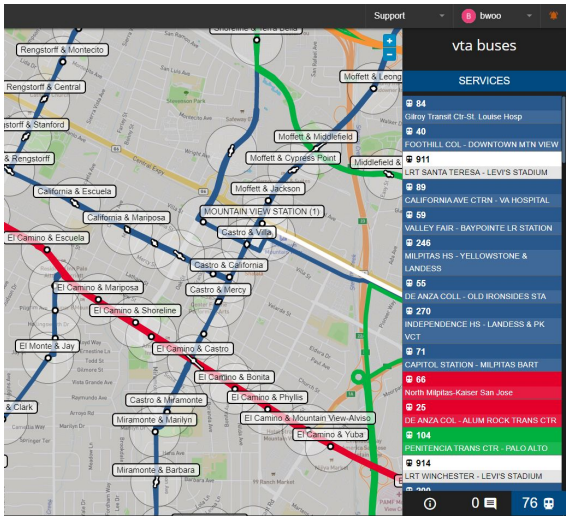
By 2035, the Google HQ in San Francisco will have an additional 100,000 employees. Google uses Podaris to support their campus expansion planning process, helping them strategically plan and evaluate transport and development scenarios.

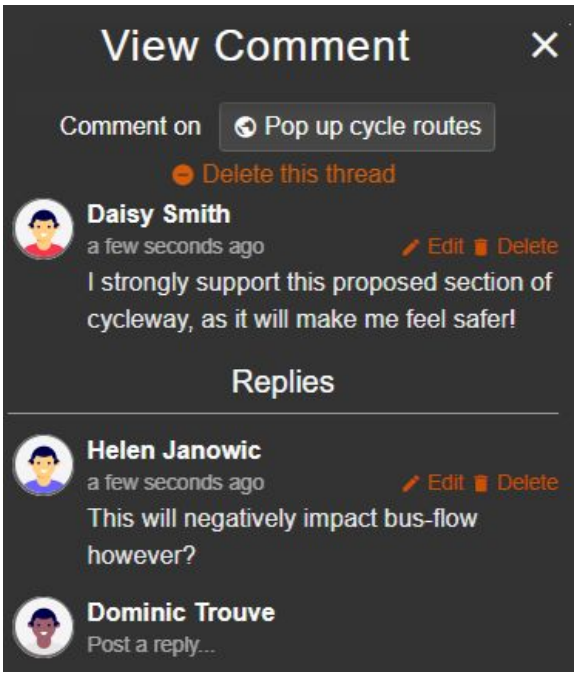
Engage Stakeholders Early and Often

Podaris' stakeholder engagement application replaces static screenshots and Powerpoint presentations by inviting curated individuals and groups to explore transport plans in a live and interactive environment. Each ‘view’ constructed from your plans, can be styled to display only the most relevant aspects of your projects, exposing only selected networks, routes and isochrones.

Present Service Proposals

Showcase complete timetables, as well as the inbound and outbound patterns associated with your services. Within those timetables, stakeholders can quickly explore running times and frequencies across your service calendars. By interacting with different services, they can put those frequencies in context, to better understand how well-served communities are by the routes that run through them.



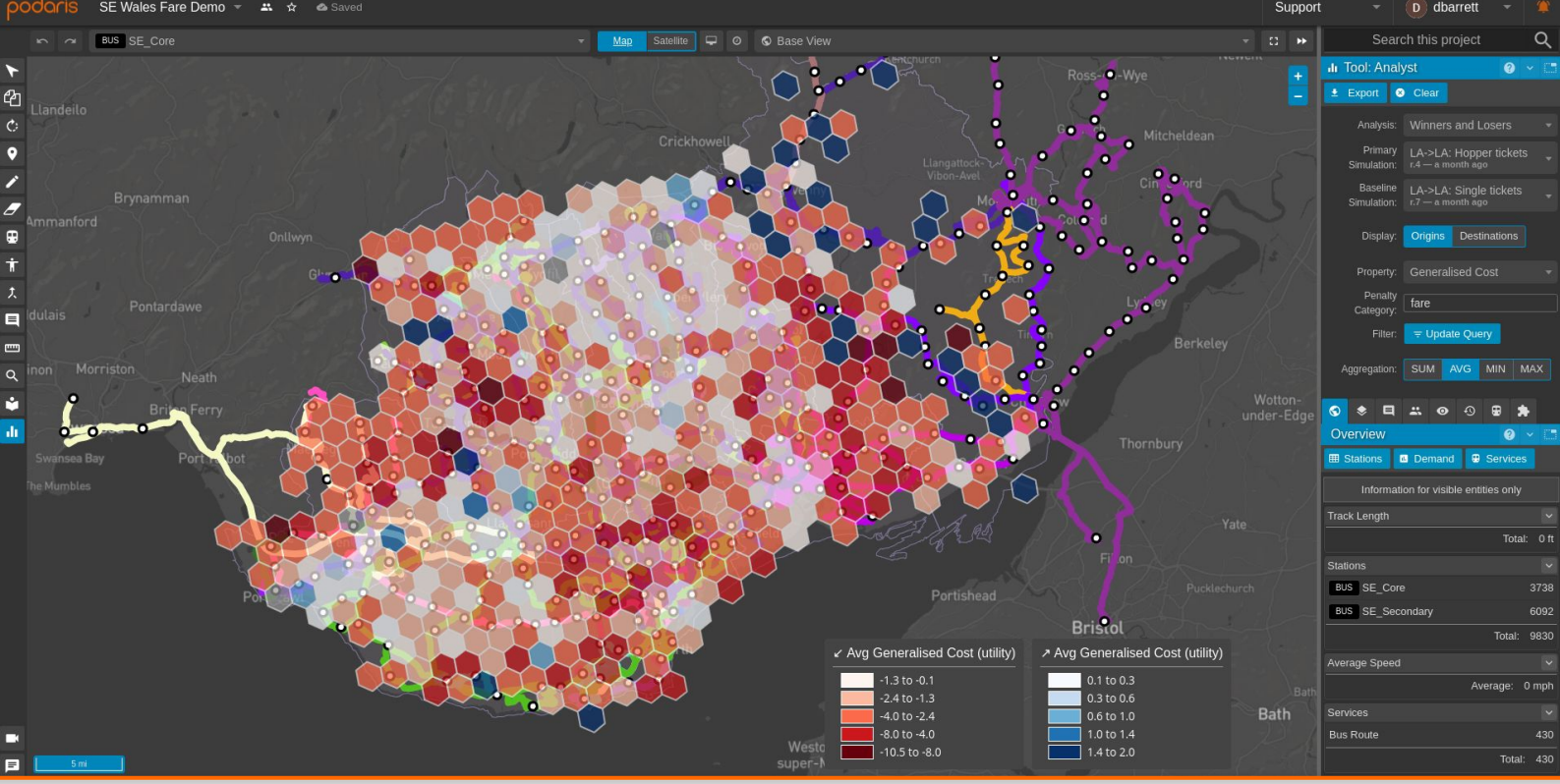


Collect Geolocated Feedback

Engage experts and non-experts alike on a single platform, fostering conversation through pinned comment threads. Gather comments from selected individuals, or the general public. The scenarios that you prepare in Podaris can be presented in tabbed 'views', allowing stakeholders to view and compare each at-a-glance, and attach comments directly to your maps.

All comments can be exported for use outside of Podaris, to form supporting evidence of consultations.

A London Borough uses the same engagement tools to collaboratively plan and consult on active travel interventions like cycle hangers, sheffield stands, and modal filters.



An image from Podaris showing a map of "Winners and Losers" under different simulated bus fare strategies

Measure Access To Opportunities

Podaris facilitates rapid and agile planning and analysis at a high level, helping you to measure and understand the effects of proposed changes to services on cost, journey times and connectivity for the communities you serve.

Test and Model Public Transport Fare Strategies

Podaris allows fare modelling to be integrated into the planning process by making operational costs more transparent, and providing tools to measure likely impacts. Its powerful simulation engine helps practitioners test fare strategies quickly, building evidence cases to feed into network reviews and operator negotiations for what may work best.

Easy-To-Use Isochrones For Demographic Accessibility Analysis

Network Reviews are expected to use operator, population and travel demand data to improve services. Podaris features simple yet powerful tools for analysing access to opportunities through isochrones. By connecting census data, Podaris can generate important metrics for your network, such as the percentage of the population with access to healthcare services within 30-minutes via public transport.

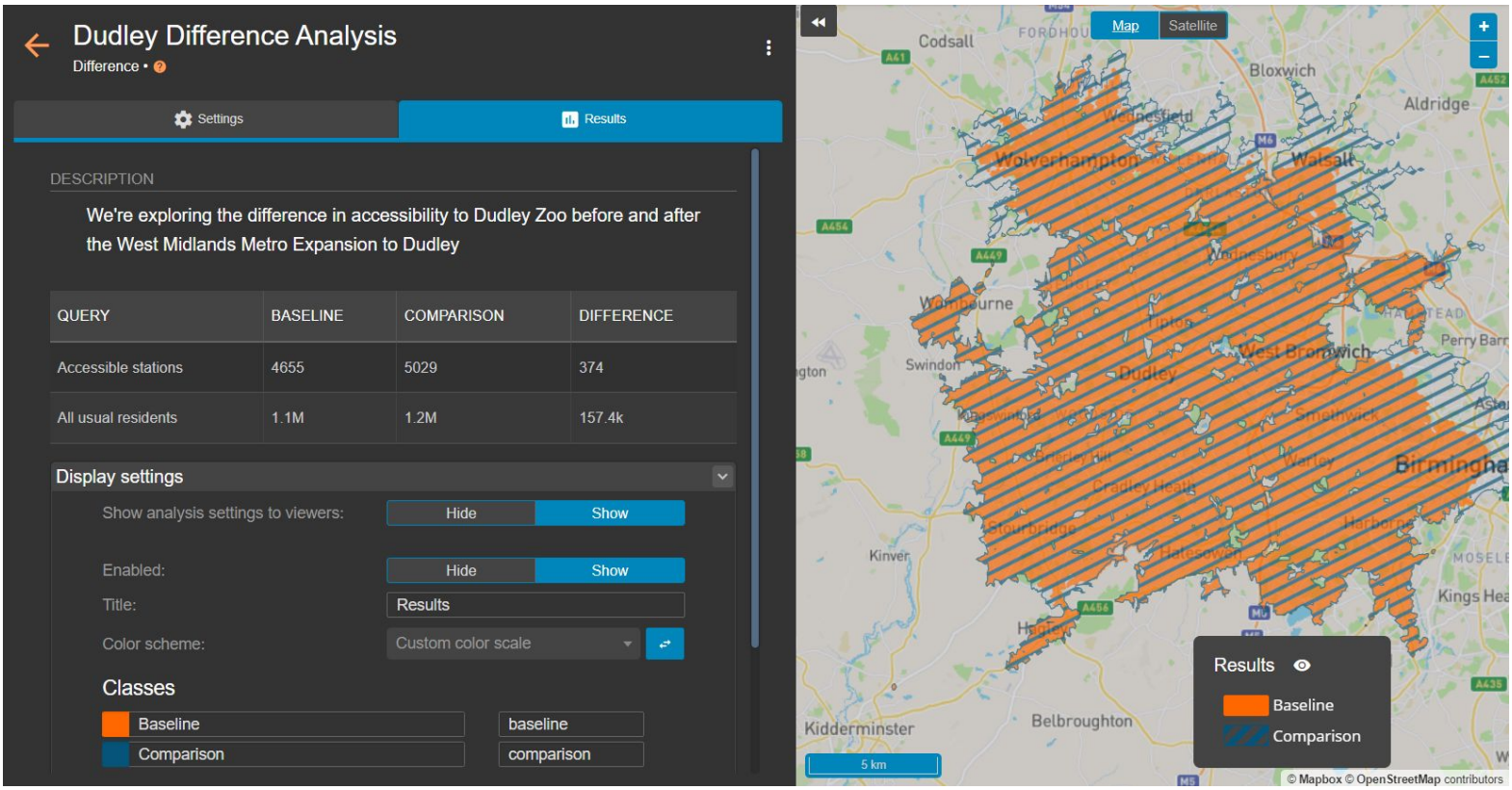
One-Click Transport Data Visualisation

Analysis within Podaris takes seconds, and pre-built data visualisations make it possible to quickly share outputs with stakeholders as interactive maps or export images for reports.

How Does Podaris:Insight Transform Accessibility Analysis?

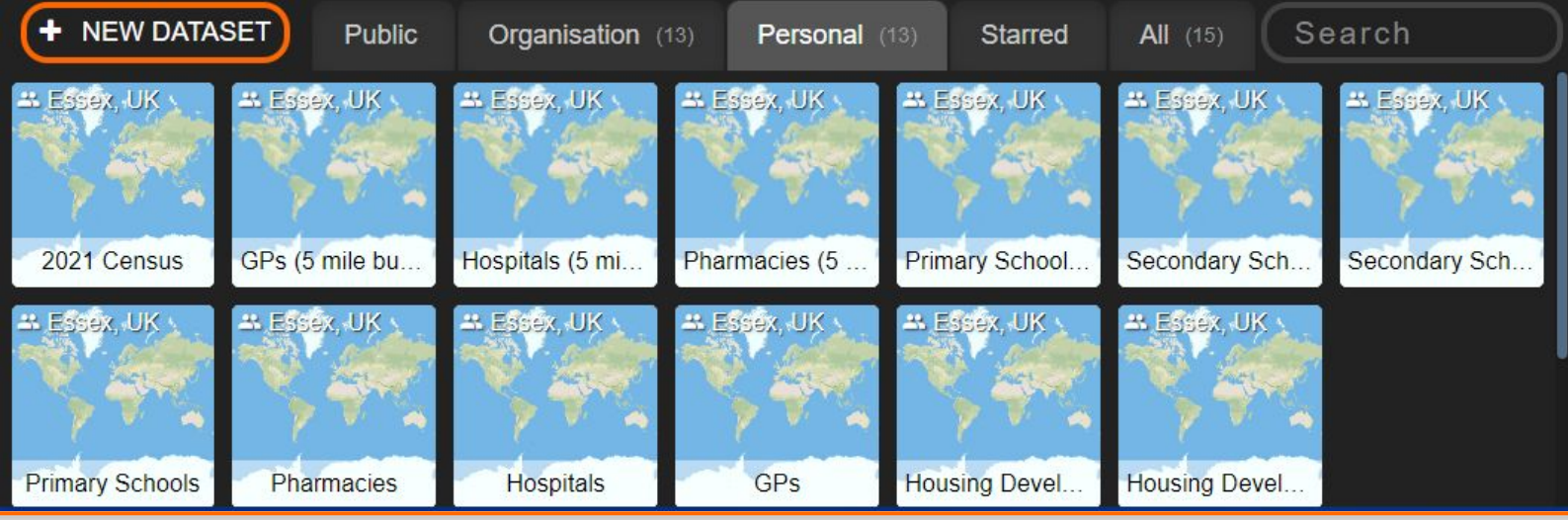
Whether to aid the calculation of access to a particular location or the creation of sophisticated socio-economic multi-modal indicator, **Podaris Insight enables the quick evaluation of connectivity and accessibility**:

- Select both **industry-standard and emerging accessibility analysis methods** from a pre-built, ever-growing, collection;
- **Cloud-based calculations** allow you to generate results for the smallest schemes to national-scale analysis in moments;
- Avoid the frustration of wrangling GIS files and spreadsheets by exporting **report-ready images, tables, and results**;
- Share your results with collaborators and **internal and external stakeholders** through interactive maps and charts.



About Podaris

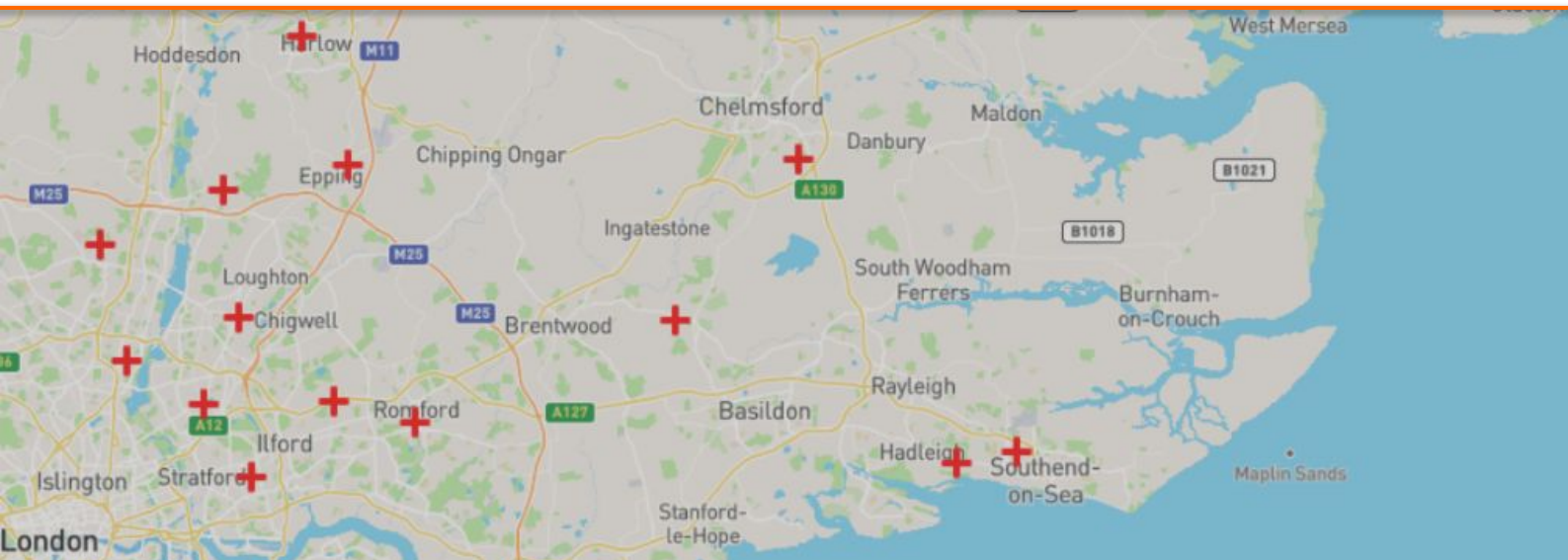
Podaris is a **collaborative web-based platform** for high-level multi-modal transport planning and analysis. It is used by planners in consultancies and public bodies to help create more equitable places and transport systems throughout the UK and worldwide.



Included Data

As part of your subscription, we will provide datasets to enable you to carry out your analyses out-of-the-box. This saves you from having to spend time sourcing your own data, whilst still providing you with the option to use your own data when needed. We will also ensure that these datasets are maintained, allowing you to focus on your analyses with the confidence that the correct data is ready and waiting for you.

- **Existing street network - Allowing you to carry out active travel accessibility analysis taking into account public rights of way as well as the road network, with built-in historical traffic speed data.**
- **Public Transport network - Allowing you to analyse accessibility by public transport, the density of the network and identify gaps.**
- **Demographic information - Query demographic data such as age, deprivation and car availability**



Technical Requirements

The Podaris platform is offered as a fully-hosted, web-based software-as-a-service subscription service. The platform is consistently maintained, updated and supported by Podaris - we regularly release new features which are automatically made available for no additional cost.

It requires no complicated installation or lengthy setup and can be run in any modern web browser on any operating system. Podaris has been tested to work in recent versions of the following browsers: Chrome, Firefox, Safari, Microsoft Edge, and Opera.

An enterprise license is your own branded Podaris-portal, meaning your data is isolated securely from any other customers and can be archived and exported at any time

Support

Technical support is included with every subscription and provides a 99.9% uptime guarantee, email-based support for queries, and access to knowledgebase articles and videos.

To ensure the successful adoption of Podaris, 40 hours of enhanced support is included in the G-Cloud package bundles. Unused support hours cannot be carried forward from year to subsequent year. Additional enhanced enterprise support is available through credit-based hourly packages. Enhanced support packages include:

- Guaranteed same business day response
- Dedicated account manager
- Ongoing videoconference-based training, upon request
- Prioritising the development of lightweight feature requests
- Conversion / integration of non-standard data formats or georeferenced images
- Development and deployment of custom functionality
- Transport advisory services for Podaris-powered projects
- Development support for customers integrating with the Podaris API

Terms

Access to the platform is provided in line with our **security** and **privacy** policy, and in agreement with our standard **terms of service** and Enterprise subscription terms and conditions.