



CADENCE: SERVICE DEFINITION

Further Information: cadence.support@cityscience.com

WHAT IS CADENCE?

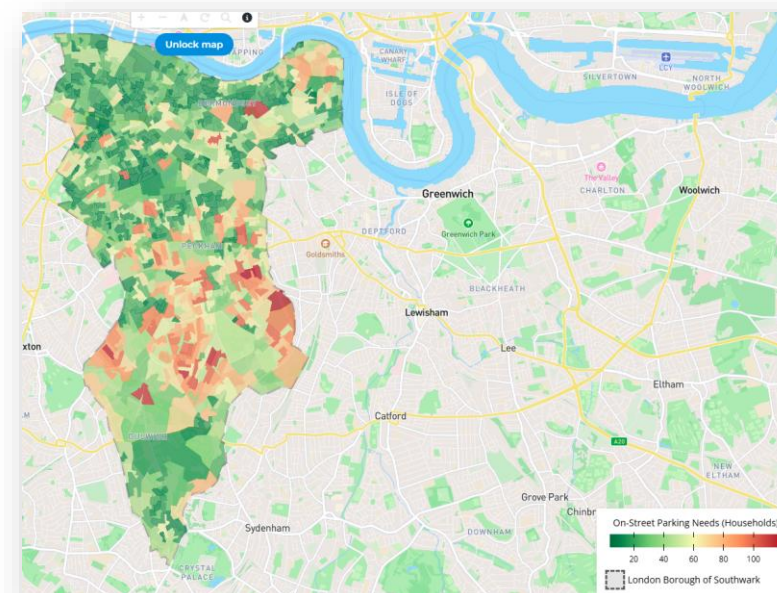


Cadence is an **easy to use**, flexible web-based GIS system, allowing users to create and share maps with collaborators.

It is a cloud-based GIS visualisation platform that helps public sector organisations create, analyse, and share professional maps without requiring specialist GIS training or expensive software licenses.

From transport planning to LAEPs and biodiversity mapping, Cadence provides the data and tools needed to support evidence-based decision-making across all council services.

Our system allows for detailed **map / project creation** and simplified public map viewing for stakeholders.



OUR SERVICES



GIS Mapping & Visualisation The vital first step to spatial analysis is having the right data at your fingertips. Cadence houses 5,000+ curated UK planning-related datasets, maintained and updated continuously. We combine cutting-edge GIS technology with an intuitive interface, enabling users to create professional-quality maps in minutes

Interactive Storytelling & Engagement Maps alone don't always tell the full story. Our *Stories* feature embeds spatial data into stakeholder communications through engaging, multimedia presentations. These turn complex data into exciting, digestible narratives for decision-makers, communities, and public consultations – all within a slide-based interface that publishes to the web with a single click.

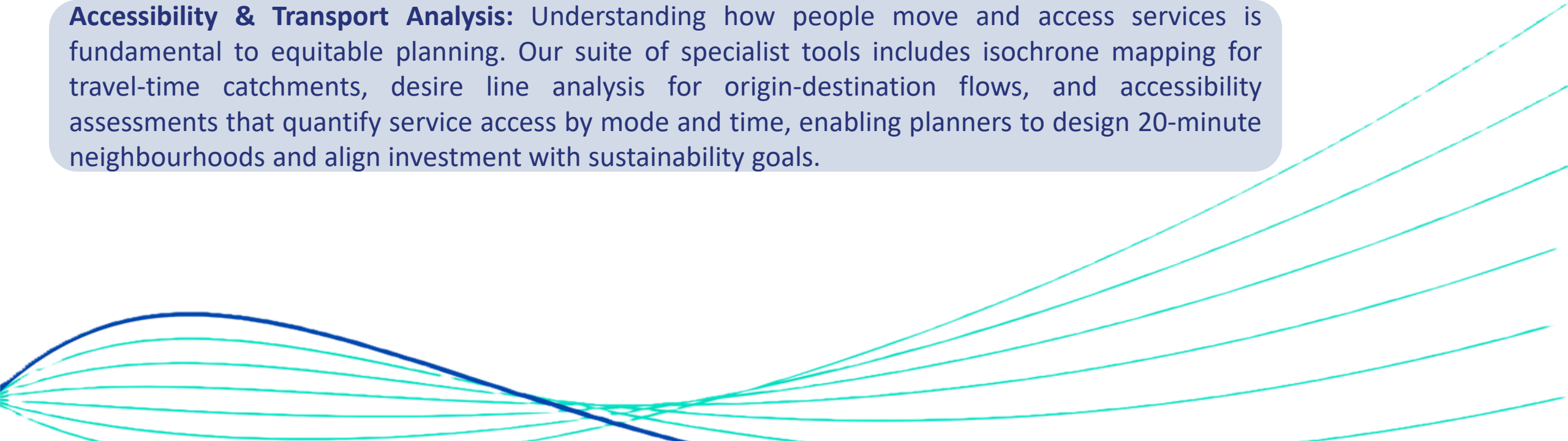
Strategic Data Solutions Authorities need more than maps: they need integrated data infrastructure. Cadence serves as a trusted core data engine for cities and regions, providing comprehensive data repositories, custom templates for LCWIPs and LAEPs, and role-based access controls that enable secure collaboration across organisations while maintaining tight control over sensitive information.

OUR SERVICES



Energy Planning & Mapping: Achieving net zero requires spatial intelligence that connects energy infrastructure, building stock, and decarbonisation pathways. Our energy analysis suite enables Local Area Energy Planning, renewable capacity assessments, and heat network opportunity mapping, helping authorities translate carbon targets into deliverable, location-specific investment strategies that accelerate the transition to clean energy.

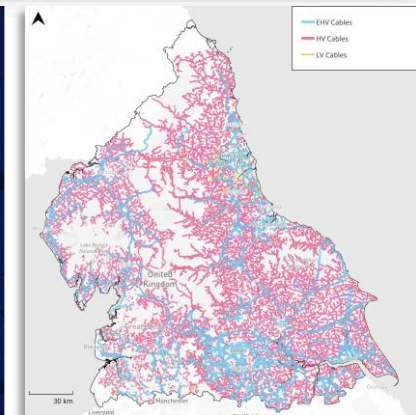
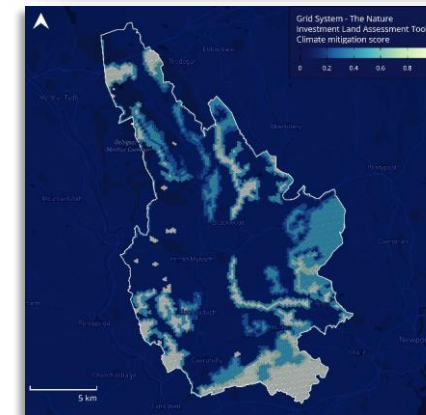
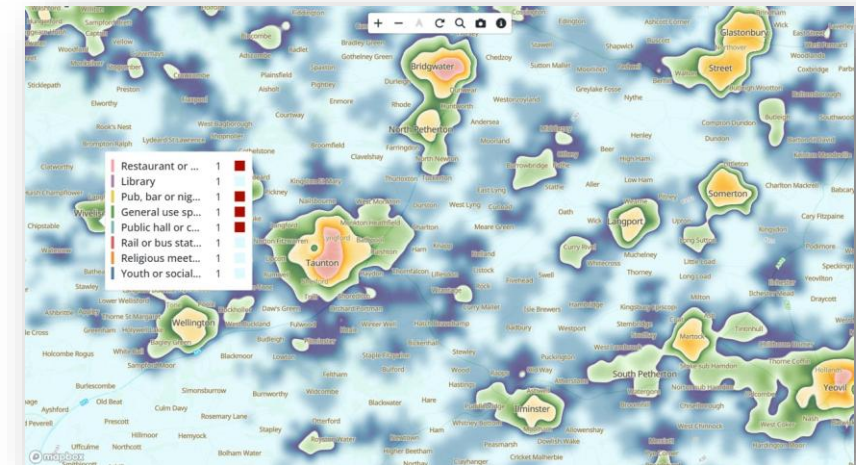
Accessibility & Transport Analysis: Understanding how people move and access services is fundamental to equitable planning. Our suite of specialist tools includes isochrone mapping for travel-time catchments, desire line analysis for origin-destination flows, and accessibility assessments that quantify service access by mode and time, enabling planners to design 20-minute neighbourhoods and align investment with sustainability goals.



GIS MAPPING & VISUALISATION

Built for the public sector. Cadence is purpose-built for public institutions, combining geospatial precision with user-centred design to deliver transparent, audit-grade spatial intelligence. We understand public sector complexity and work alongside your teams to embed GIS across departments, turning data into clear, actionable insight. From regional monitoring to digital local plans, Cadence supports confident, data-driven place-making..

- **No-Code Data Upload & Integration:** We're more than just software. We're your strategic partner across the entire planning and analysis journey.
- **5,000+ Pre-Integrated Datasets:** We handle the complexity of data discovery and preparation so you don't have to. Our curated databank, built on best-in-class sources including OS, ONS, and specialist environmental data, offers granular, policy-relevant insights trusted by nearly 100 local authorities across the UK.
- **Real-Time Collaboration & Sharing:** Cadence's cloud platform keeps your maps live and shareable. Visual dashboards, team-specific projects, and instant web publishing foster cross-departmental collaboration and transparency. Monitor spatial patterns, set priorities, and share results in a way that resonates with all stakeholders.
- **Award-Winning Innovation:** Trusted by councils, Combined Authorities, and Strategic Transport Bodies nationwide. Winner of the CIHT Innovation Award and Masters of Modelling Awards, with nominations for Net Zero Innovation of the Year. Our platform transforms how organisations leverage spatial data for sustainable, inclusive growth.

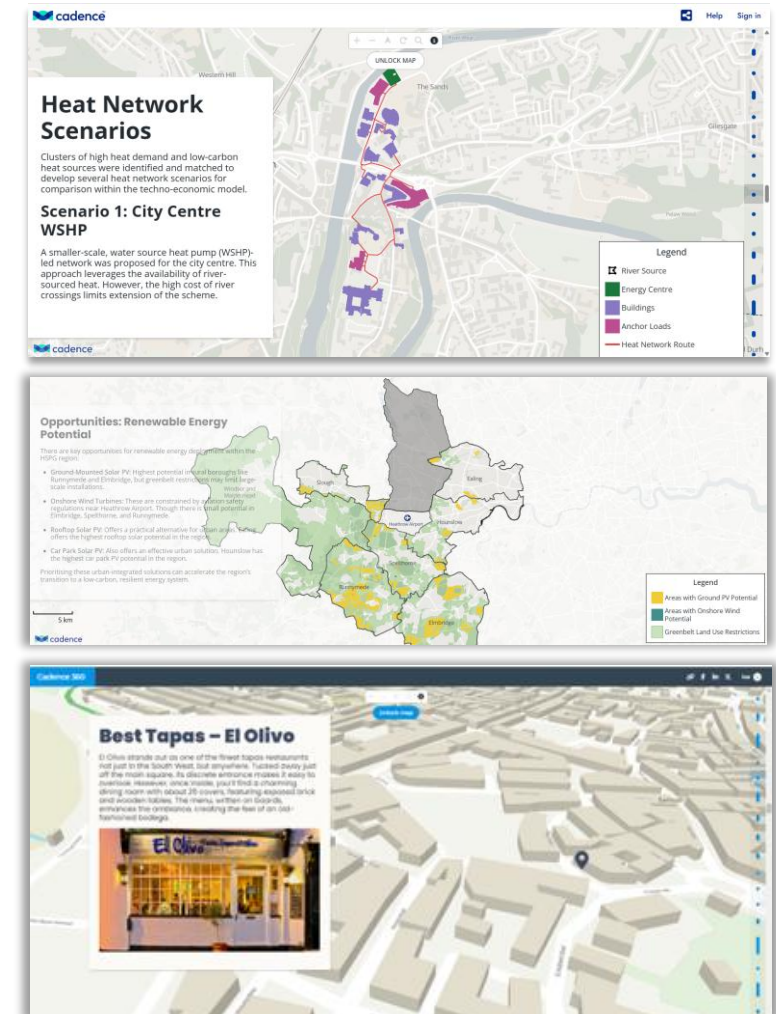


Interactive Storytelling & Engagement

Turn complex spatial data into compelling narratives. Static maps and reports often fail to engage or clearly explain spatial issues. Developed by public sector communication experts, Cadence's Stories feature brings data to life, helping public institutions embed spatial intelligence across consultation, policy communication, and dashboards: **turning technical maps into clear, accessible narratives that drive real understanding.**

Our Stories functionality is built on core principles that guide organisations through every stage of spatial communication:

- **Slide-Based Narrative Building:** An intuitive, PowerPoint-style interface combining maps, text, media, and interactive charts to structure information clearly, guide attention to key spatial insights, and create reusable, shareable presentations.
- **Web Publishing & Accessibility:** Instant web publishing via shareable URLs, full mobile responsiveness, and accessible design ensure inclusive access for all stakeholders, anywhere.
- **Embedded Intelligence & Interactivity:** Interactive maps, live data charts, and configurable access controls let different audiences explore the right level of detail while protecting sensitive information.
- **Integration with Planning & Policy Processes:** Spatial storytelling is embedded into standard workflows, supporting Local Plan consultations, policy monitoring dashboards, and reusable templates for recurring reports like AMRs.



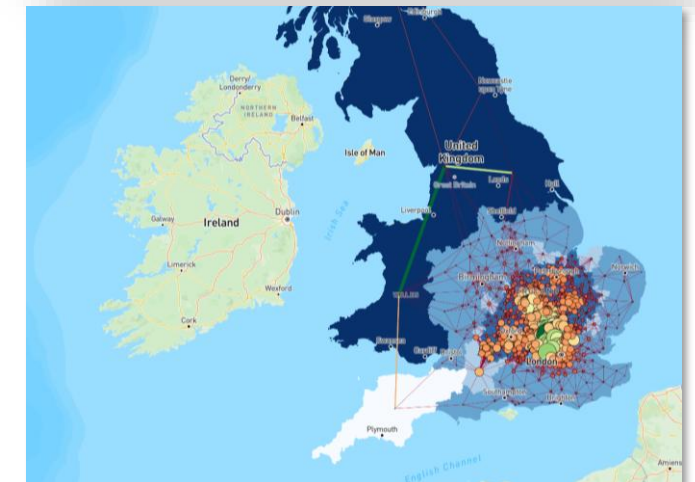
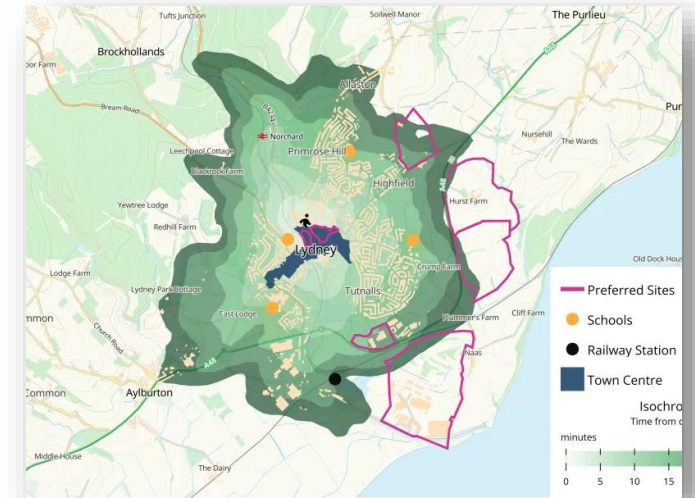
Accessibility & Transport Analysis

Understand how people move and access opportunity. Mapping your transport network is just the start. The challenge is understanding who can access what, where gaps exist, and how to prioritise investment. Cadence's Transport & Accessibility Suite helps local authorities translate connectivity data into realistic, evidence-based plans – from bus route optimisation and LCWIP delivery to active travel infrastructure and 20-minute neighbourhood planning.

We don't just model accessibility: we model the real world. Our platform enables multi-modal analysis across walking, cycling, public transport, and car, helping you identify which interventions deliver the greatest impact for underserved communities. Rapid scenario testing allows you to evaluate new routes, cycle infrastructure, and demand-responsive transport options before committing resources.

Isochrones Made Easy: Generate custom travel-time catchments from any point on the map for site suitability, accessibility benchmarking, settlement sustainability assessment, and emergency planning. Our isochrone tool supports multi-modal comparison and helps planners understand service access patterns that inform equitable investment decisions.

Transport Model Outputs: Automate shareable outputs including forecast traffic flows, public transport borders and alighters, travel times, delays, and model validation results..

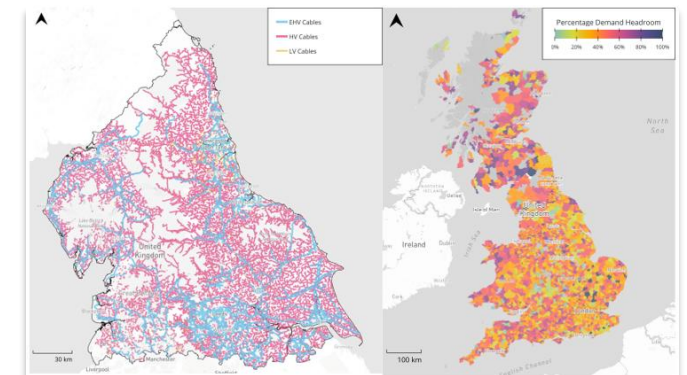
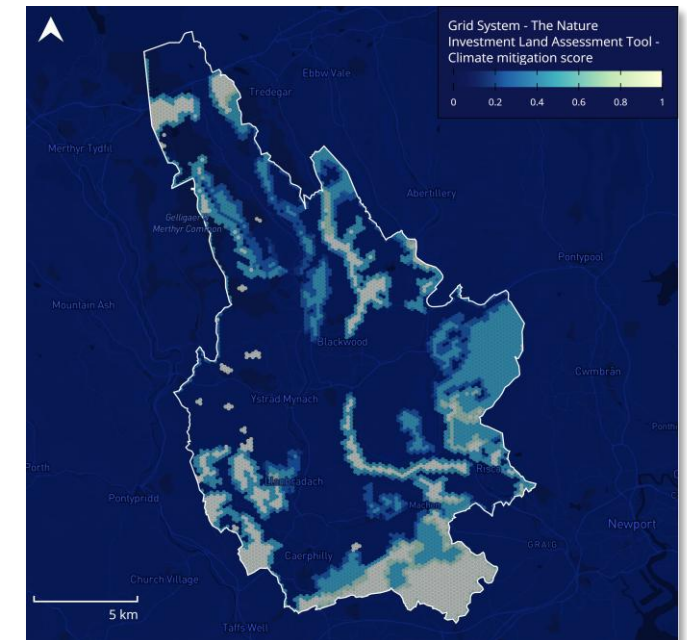


Energy Planning & Mapping

Spatial intelligence for net zero delivery. Carbon targets are meaningless without location-specific delivery plans. You need to understand where heat networks make economic sense, which buildings suit heat pumps, where renewable generation can connect to constrained networks, and how to sequence investment across a 20-year pathway. Cadence's Energy Planning capabilities translate net zero commitments into actionable spatial strategies.

From Local Area Energy Plans to renewable energy assessments and network capacity mapping, Cadence combines building-level energy data, infrastructure constraints, and techno-economic modelling to deliver plans that work in the real world: tested through delivery across the UK.

- **Evidence-Based Decarbonisation Planning:** Turn complex datasets into clear investment priorities. Map heat network opportunities, identify renewable capacity, assess building retrofit potential, and model technology deployment scenarios.
- **Whole-System Infrastructure Analysis:** Understand network capacity, renewable potential, and how technologies interact across gas, electricity, and heat systems. Identify constraints before they block delivery.
- **From Strategy to Implementation:** Move from opportunity identification to project-specific feasibility, connecting spatial analysis with techno-economic modelling for investment-grade business cases.
- **Energy Model Outputs:** Create beautiful visualisations of your data. Past examples Cadence has created include heat network opportunity maps, building-level demand analyses, renewable capacity assessments, and technology deployment scenarios.



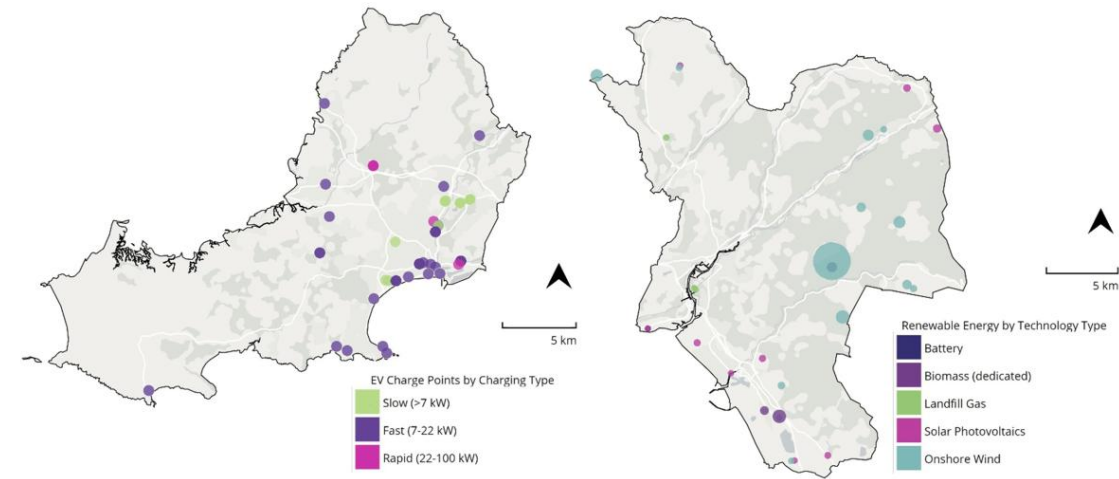
South West Wales Local Area Energy Plans

Overview

City Science delivered three Local Area Energy Plans across Southwest Wales for the Welsh Government's national programme, covering Swansea, Neath Port Talbot, and Carmarthenshire. Using Cadence, we built comprehensive baseline models of the regional energy system, mapping building and industrial demand alongside low-carbon generation, storage, and transport infrastructure. Advanced geospatial zoning segmented the region by electricity grid infrastructure, enabling detailed modelling of decarbonisation pathways. Cadence visualisations illustrated EV charging locations, renewable generation by type and scale, gas network coverage, and properties off the gas grid. All analysis was shared interactively through Cadence's mapping and data visualisation tools, supporting stakeholder engagement via workshops, focus groups, and prioritisation sessions to develop clear, actionable energy transition roadmaps.

Outcomes

Cadence helped elevate sustainable transport analysis enabling this to be conducted interactively and easily shared with stakeholders. Cadence's presentational features ensured the project was highly collaborative, enhancing stakeholder deliberations and discussions.



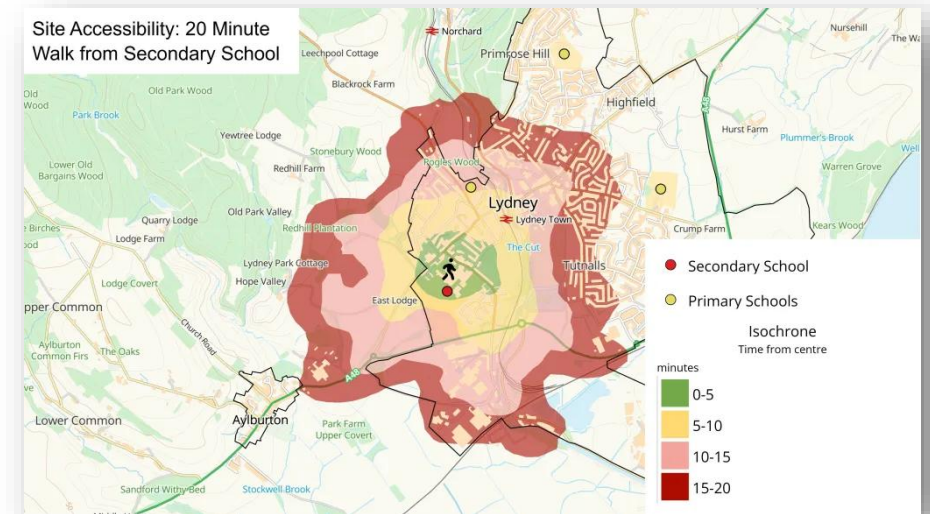
How Cadence Helped Assess Sustainability of Development sites in Lydney

Overview

LDA Design evaluated sustainability of growth options for Forest of Dean Council using Cadence's isochrone feature to analyse travel times from amenities. They identified seven potential development sites and imported them into Cadence, adding points of interest from Cadence's Databank. Travel time maps were created to assess accessibility via sustainable transport modes and public transport connections to external employment centers. All analysis was presented interactively, helping stakeholders understand options and reach consensus.

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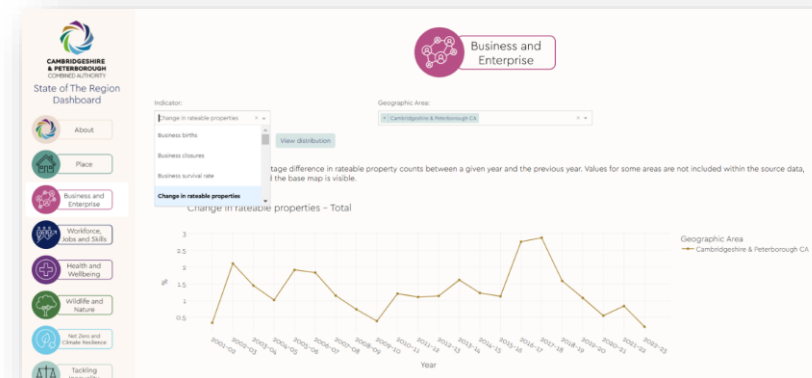
Redefining Data Portals for Cities and Regions

Overview

CPCA commissioned Cadence team to deliver a State of the Region Review and interactive dashboard, creating a reliable evidence base for regional policies. Cadence worked with stakeholders to establish a high-quality databank and developed a regional data observatory with multiple interactive components: Cadence Stories for narrative walkthroughs, Cadence Maps for community-level data exploration, and a curated dashboard for interactive data visualisation.

Outcomes

The Cadence team delivered a step change in regional dashboarding, developing a trusted, comprehensive and engaging solution that will provide a long-term asset to the Cambridgeshire and Peterborough region.





More Case Studies: <https://cadence.cityscience.com/case-studies/>



Sign up to get access to Cadence for a free trial here:

