Net Zero Living: Meet The Innovator - Webinar Series

Webinar 1: AI, Data and Digital for Net Zero

Thursday 12th February 2026

UKRI Innovate UK

Our Purpose & Vision

We are part of Innovate UK, the UK's innovation agency.

We create diverse connections to drive positive change.

To establish a network of innovators so powerful its ideas will change the world.

UKRI Innovate UK | Business Connect

Our Network

46,229
Unique Organisations

72%
Small

15%
Medium

13%
Large

335,478
innovators

Every university in the UK

UKRI Innovate UK | Business Connect

The Net Zero Living Programme

Helping local authorities and businesses work together to deliver new solutions that improve local services and open markets for economic growth.

- Places are seizing the opportunities that come with decarbonisation and creating warmer homes, cheaper local energy, new skills, and more secure work for their communities.
- But their teams are overstretched and they have limited resources and investment.
- Innovate UK's Net Zero Living Programme is providing funding, insights, and specialist assistance to nearly 300 businesses and local authorities so they can adopt social, policy, and technical innovation and help their place prosper.
- A £60m programme from 2023-2026, including large-scale demonstrator projects
- https://iuk-business-connect.org.uk/programme/net-zero-living

UKRI Innovate UK

AI, Data and Digital for Net Zero

Innovate UK | Business Connect

Simon Tricker

UrbanTide

Mollie Atherton

Advanced Infrastructure

Alejandro Navarro

edenseven

UKRI Innovate UK | Business Connect

Let’s make a sustainable world with AI

Simon Tricker - Co-founder, UrbanTide

February 2025

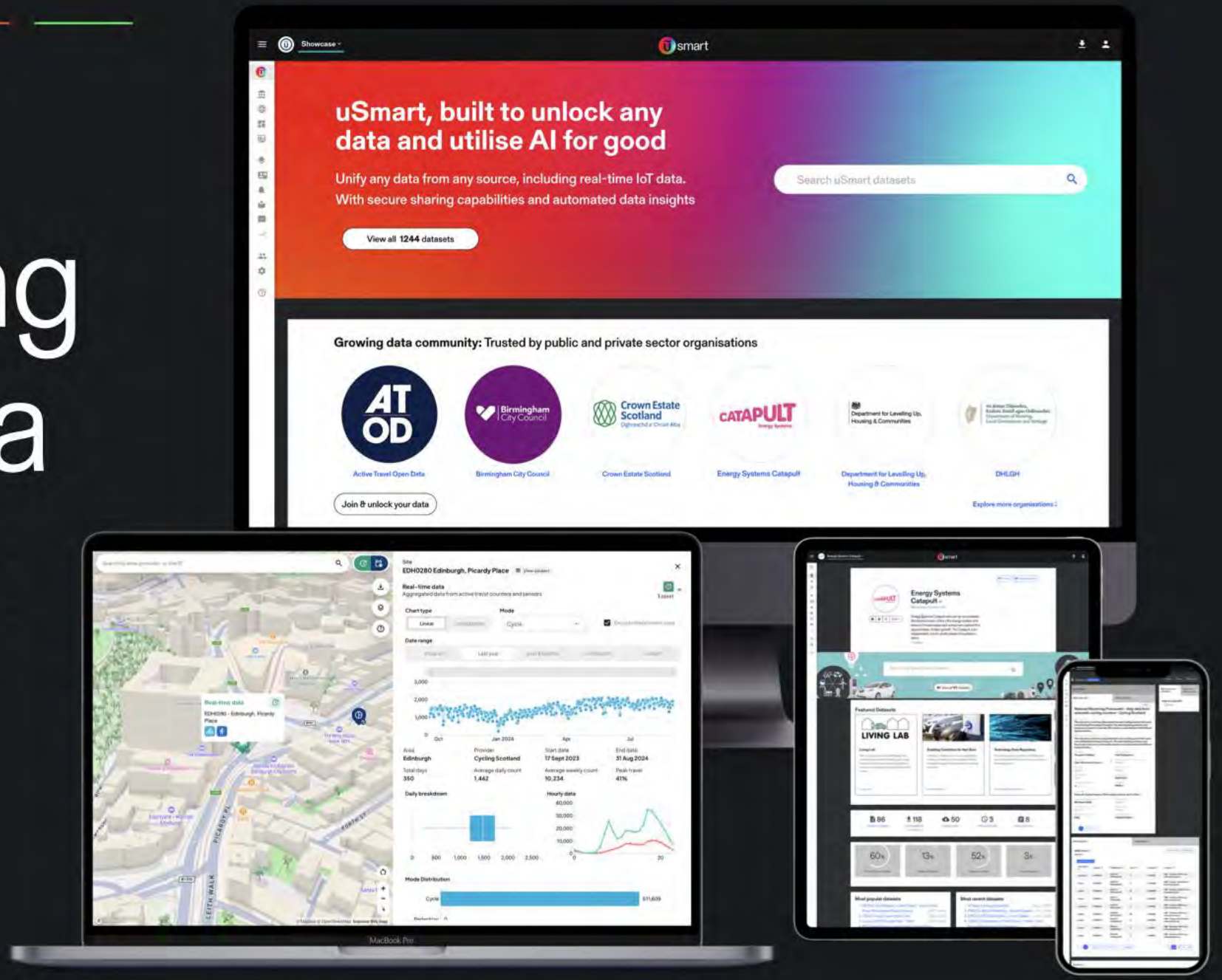
Simon.Tricker@urbantide.com

UrbanTide.com
uSmart.ai

UrbanTide

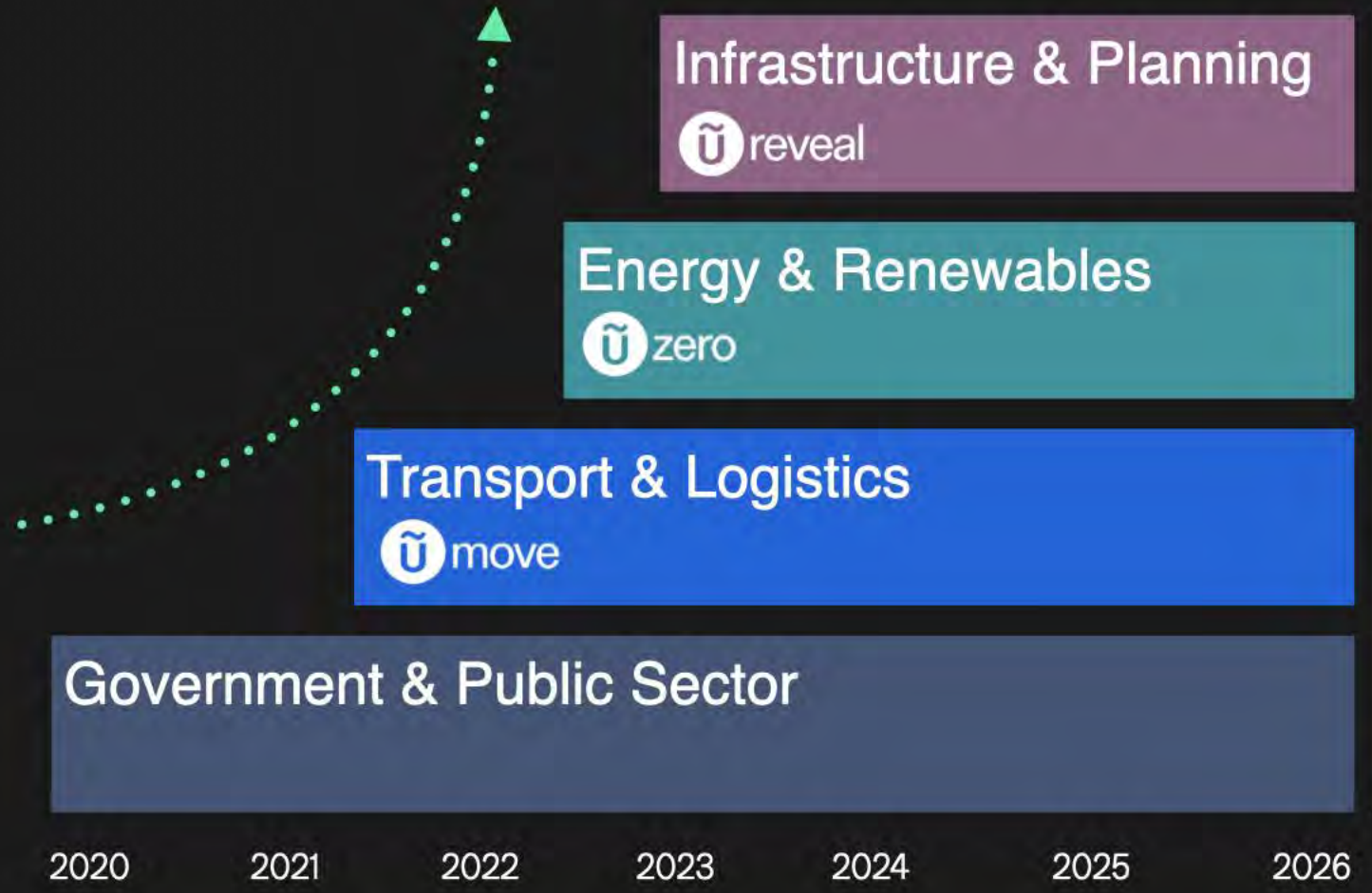
uSmart

Unlocking local data to target action



UrbanTide

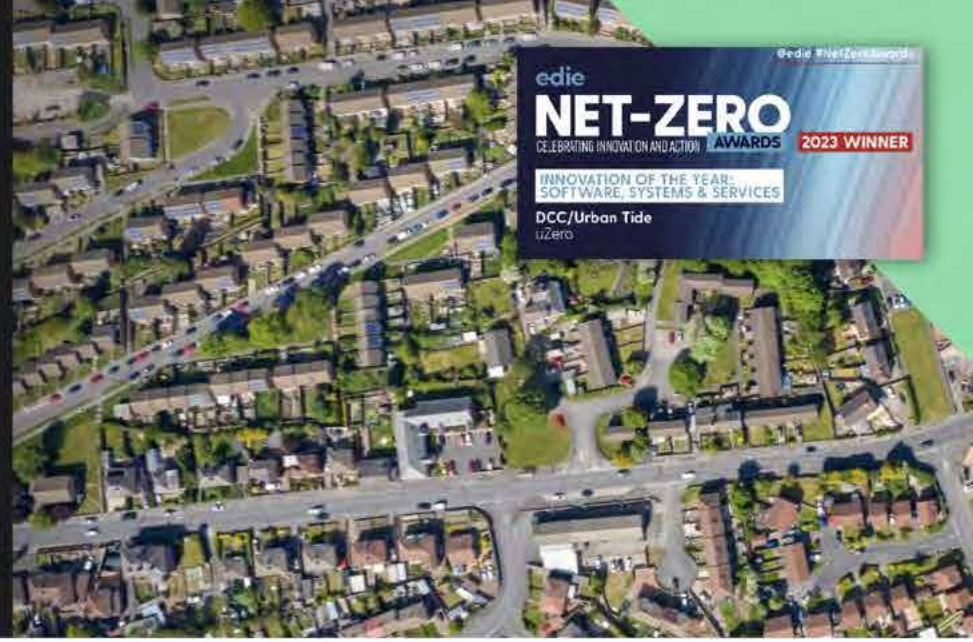
smart - Built to unite cross-sector data to deliver unique value

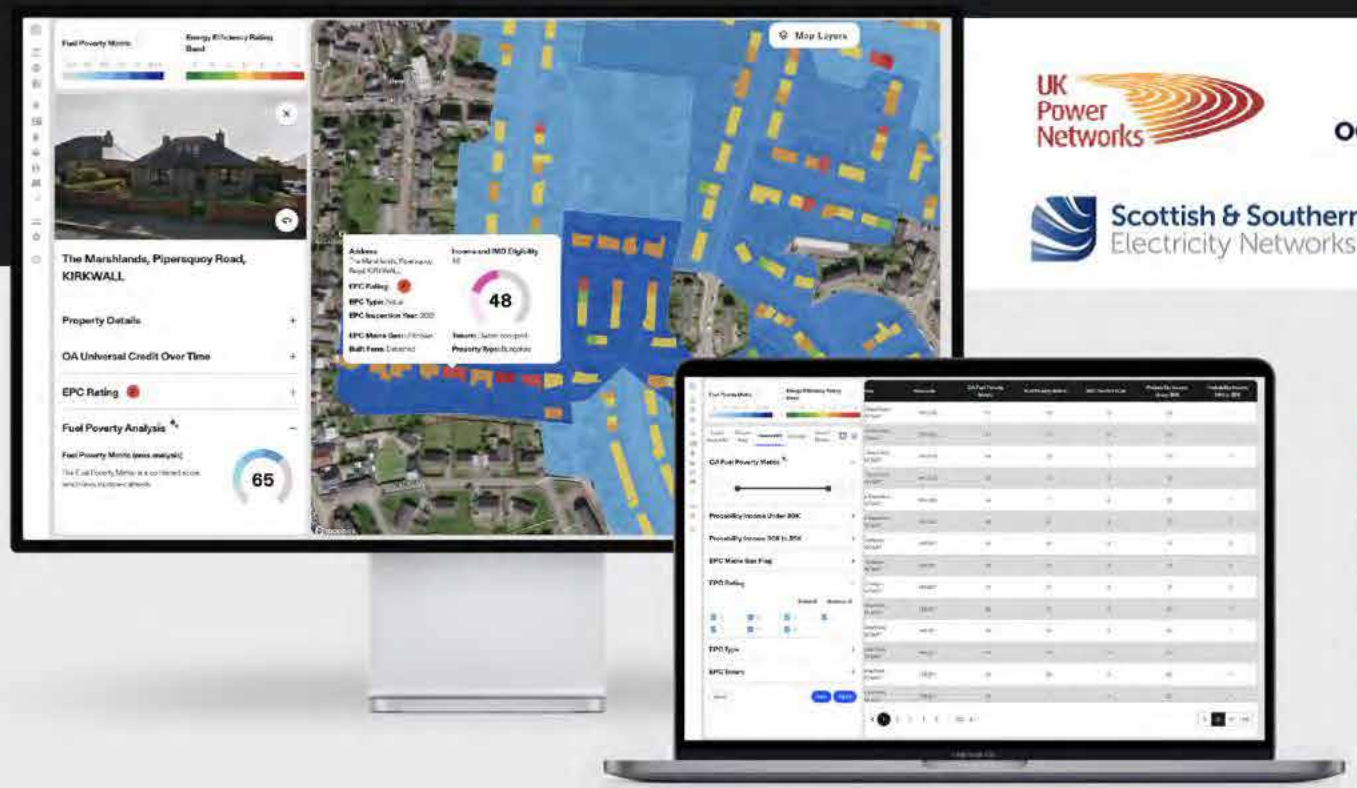


BURO HAPPOLD
UK Power Networks
Qiddiya
CATAPULT Energy Systems
Sunderland City Council
ReFLEX ORKNEY
Department for Levelling Up, Housing & Communities
ICNZ Islands Centre for Net Zero
Scottish & Southern Electricity Networks
TRANSPORT SCOTLAND CÒMHDHAIL ALBA
wisegroup Inspiring social enterprise
Central Bedfordshire
Greater South East Net Zero Hub
Cycling Scotland
SOMERSET County Council
AECOM
Jacobs
Crown Estate Scotland Oighreachd a Chrùin Alba
EDINBVRGH THE CITY OF EDINBURGH COUNCIL
North Lanarkshire Council
Scottish Government Riaghaltas na h-Alba gov.scot
An Roinn Tithíochta, Pleanála agus Rialtais Áitiúil Department of Housing, Planning and Local Government
paths for all

AI targeting for energy efficiency and support for our communities

Combines Smart Meter System data to help identify fuel poverty and deliver targeted support.





UK Power Networks · octopus energy · wisegroup inspiring social enterprise · Greater South East Net Zero Hub · Data Communications Company

Scottish & Southern Electricity Networks · Dover District Council · Dartford Borough Council · ICNZ Islands Centre for Net Zero · Shetland Islands Council

£84m

GSENZH invested over £84 million to retrofit homes across the South East.

34x

uZero delivered a 34x increase in response rates compared to the previous campaigns.

£2m

Saved on inefficient **referral data & lead generation,** with more money going to those in need

zero Transform your support delivery with AI-powered intelligence

Identification

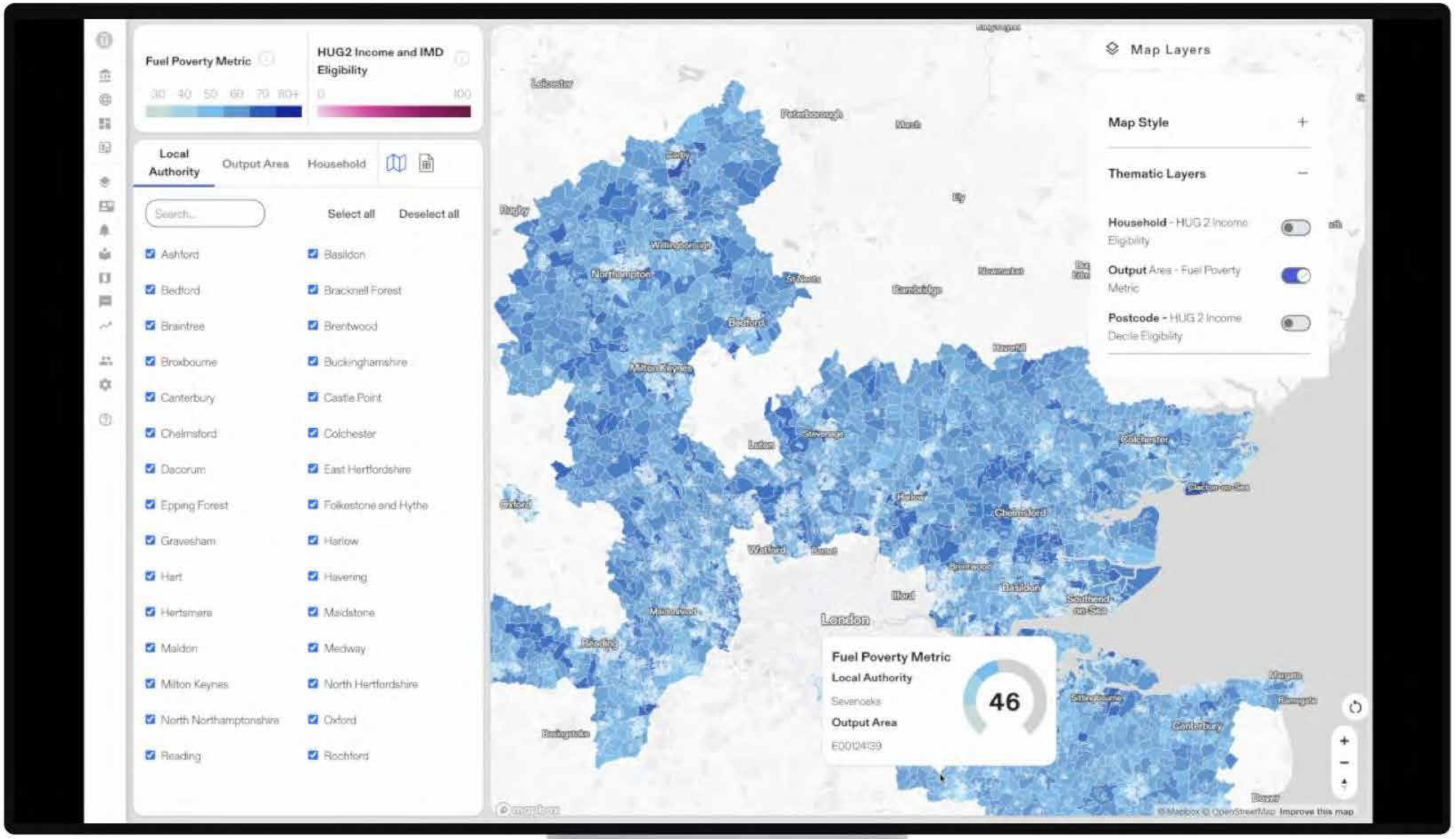
AI-powered precision targeting combines large cross-sector data including smart system meter data

Intervention

Increase warm home & support schemes to massively increase referral rates **(34x more effective)**

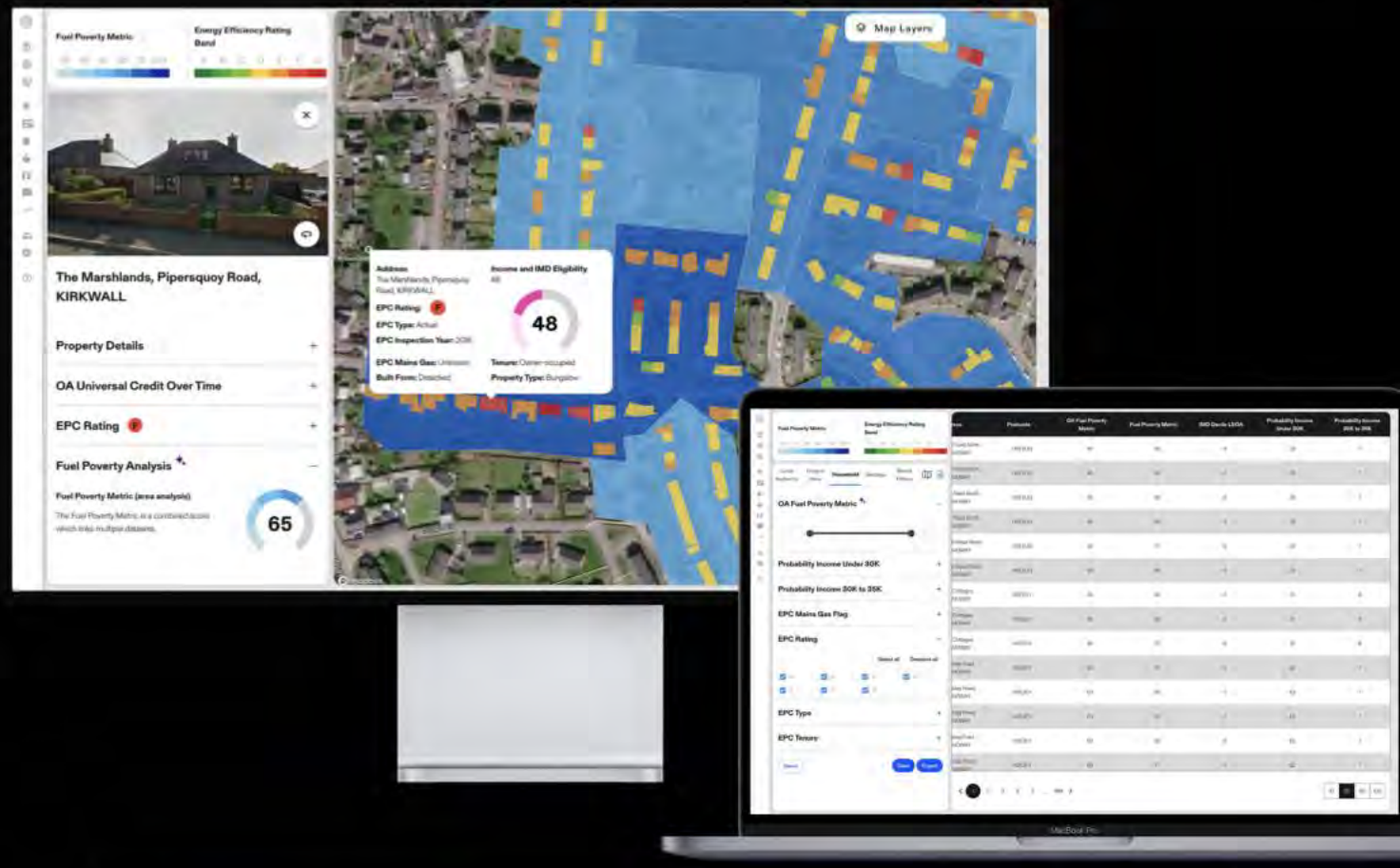
Impact

Tracking the impact of the interventions, combining data to fill in the gaps for future planning & delivery


Fuel Poverty Metric
30 40 50 60 70 80+
HUG2 Income and IMD Eligibility
0 100
Local Authority
Output Area
Household
Search...
Select all
Deselect all
Ashford
Basildon
Bedford
Bracknell Forest
Braintree
Brentwood
Broxbourne
Buckinghamshire
Canterbury
Castle Point
Chelmsford
Colchester
Dacorum
East Hertfordshire
Epping Forest
Folkestone and Hythe
Gravesham
Harlow
Hart
Havering
Hertsmere
Maidstone
Maldon
Medway
Milton Keynes
North Hertfordshire
North Northamptonshire
Oxford
Reading
Rochford
Map Layers
Map Style
Thematic Layers
Household - HUG 2 Income Eligibility
Output Area - Fuel Poverty Metric
Postcode - HUG 2 Income Decile Eligibility
Fuel Poverty Metric
Local Authority
Sevenoaks
46
Output Area
E00124139
London
Improve this map

Tackling the growing fuel poverty crisis

- Monthly fuel poverty metric using anonymised **smart meter data**
- Combining **cross-sector** data at the household level
- Enhanced EPCs with **new virtual EPCs** to fill in the gaps
- **Saved filters** for different grants and **easy data exporting** (Excel, API)
- **Area-based pricing** tailored to your region and scheme requirements
- **Materials out** and **best Intervention** across properties & regions (in dev)



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Development Reports and Background Research

www.urbantide.com/uzero

www.urbantide.com/nohomeleftcold

Data Communications Company

UCL

Greater South East Net Zero Hub

move Scale of the challenge

Transport data is distributed across multiple sources and rarely used beyond its original purpose

Evidence of modal shift and behaviour change is challenging, which limits planning and investment

Sharing and access to data is limited - restricting the value of that data and investment

uMove - Mobility Insights

COLLECT

Millions of mobile data points to understand travel behaviour

ANALYSE

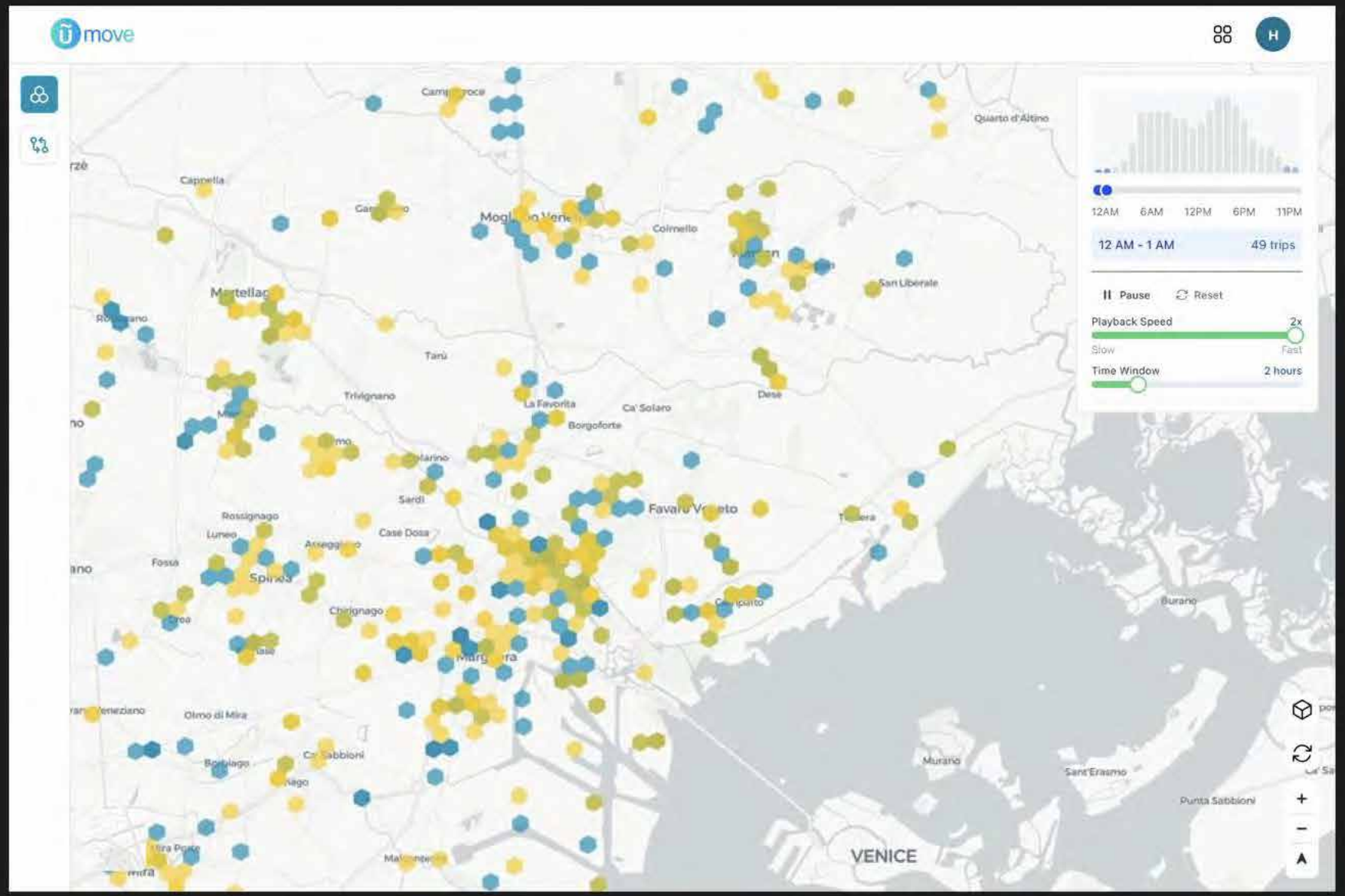
Track mode usage, modal shift, and behaviour change

ACT

Identify groups or destinations that could shift transport modes

uMove - Mobility Insights

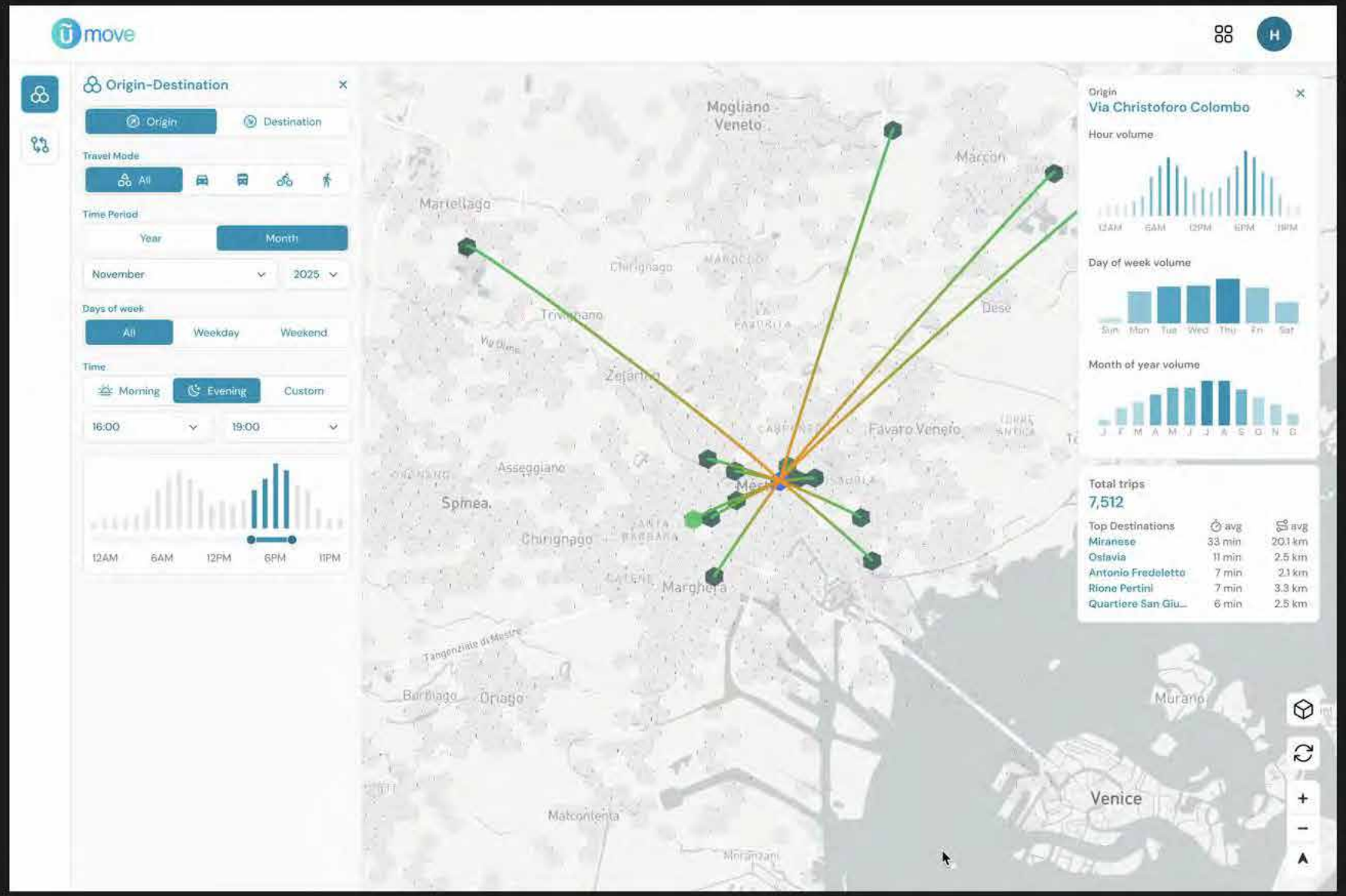
See the whole picture



- **Millions of anonymised mobile data points**
- **Every journey, every mode, across the whole region**
- **Identifying routes with potential for active travel**

uMove - Mobility Insights

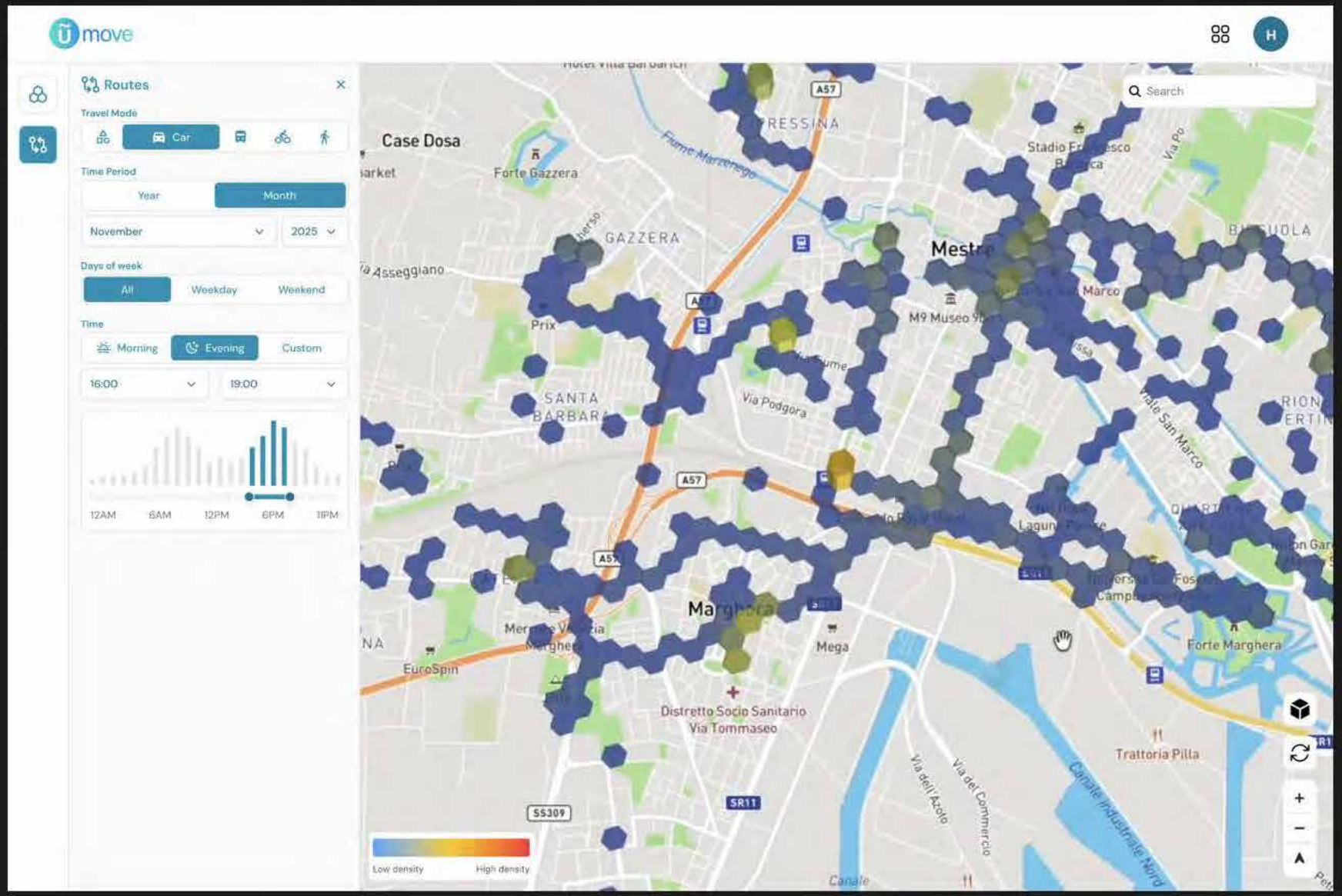
Understand travel choices



- **Understand current travel modes and patterns**
- **Focus on key destinations: workplaces, campuses, retail centres**
- **Assess potential for behaviour change**

uMove - Mobility Insights

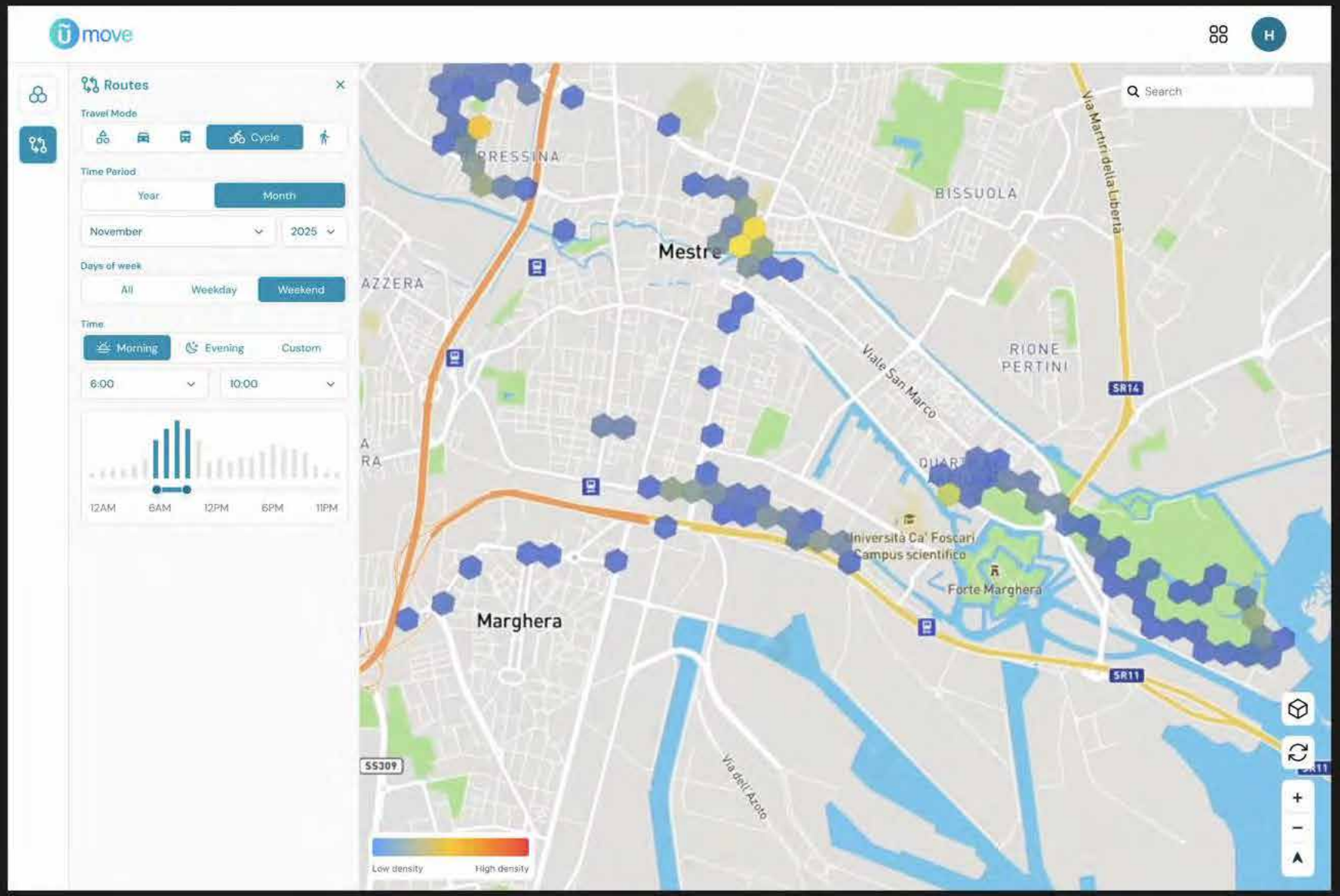
Target the right journeys



- **Pinpoint short car journeys — prime candidates for change**
- **Example: car trips under 5km to major employers**
- **Target interventions where impact is greatest**

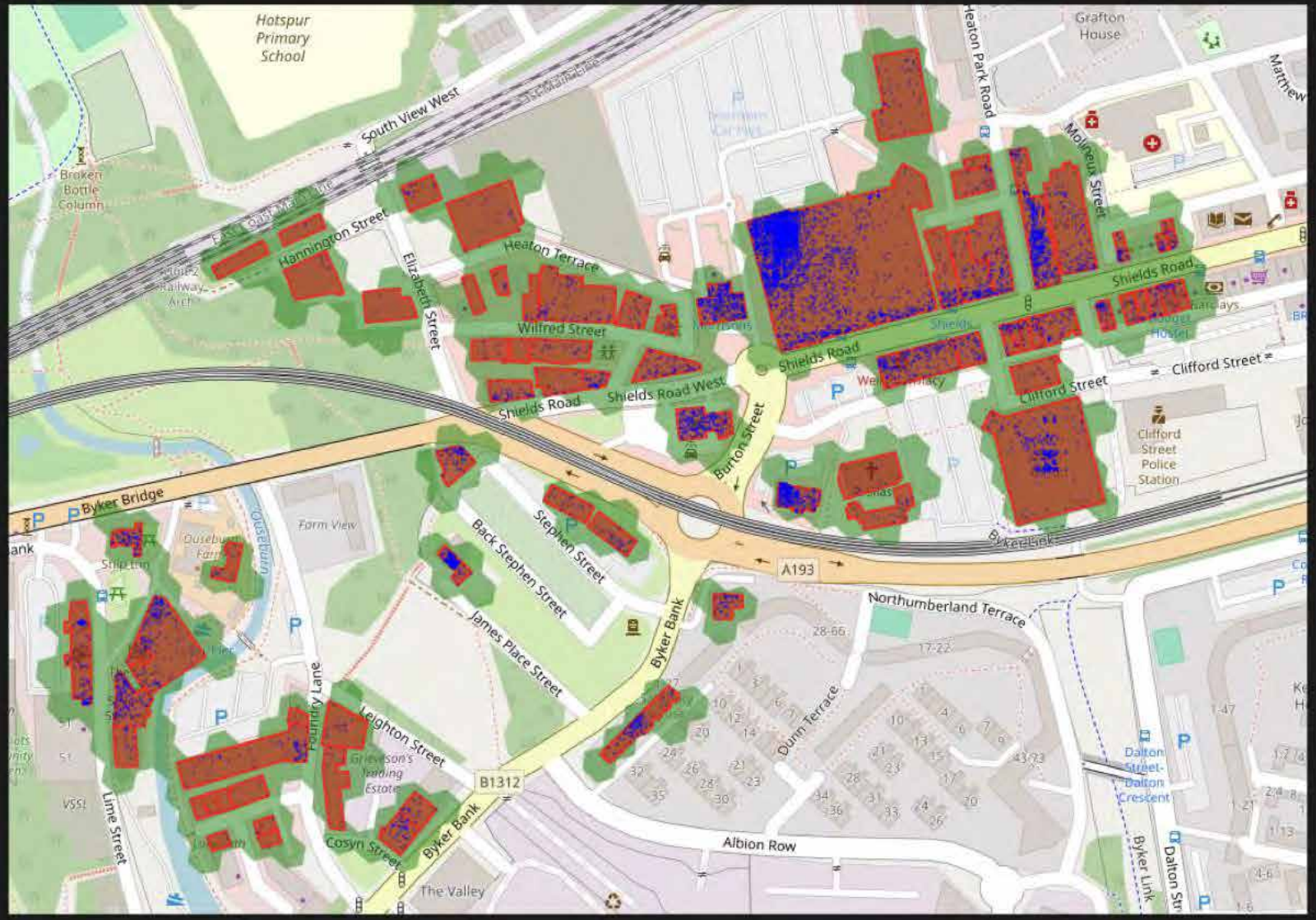
uMove - Mobility Insights

Prove what works



- **Track travel behaviour change over time**
- **Combine with app engagement data and mobility analytics**
- **Scalable, evidence-based, results-driven**

Destination Insights (Newcastle)



- **Destination can show building use**
- **Image shows non-domestic, in-use, buildings only**

Destination Insights (Edinburgh)

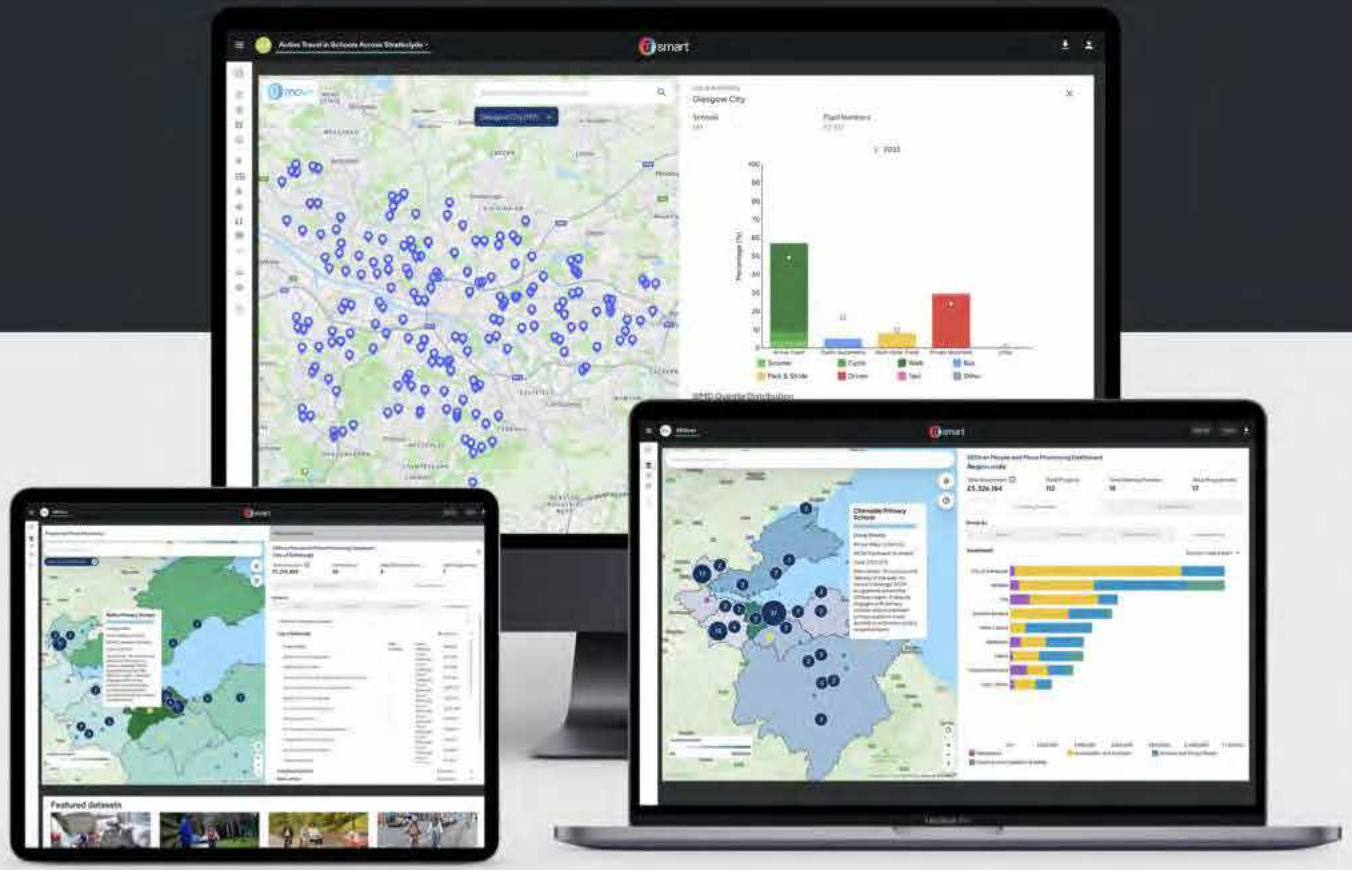
- **Destination can show building use**
- **Image shows busy shopping area and congregation and bus stops in Edinburgh**

uMove - Mobility Insights: Features

- **Visitor Flow Management:** Movement pattern analysis reduces overcrowding at popular sites and promotes underutilised attractions.
- **Multimodal Journey Planning:** Mode-specific data integration enables seamless travel experiences through combined tickets and coordinated timetables.
- **Economic Impact Measurement:** Spatial and temporal visitor distribution data quantify the economic impact, helping to justify investments and policies.

uSmart Evidence-Based Investment Management

SEStran used uSmart to monitor £5 million in active travel projects, creating a single source of truth to track delivery and measure behavioural change across the region.



£5m

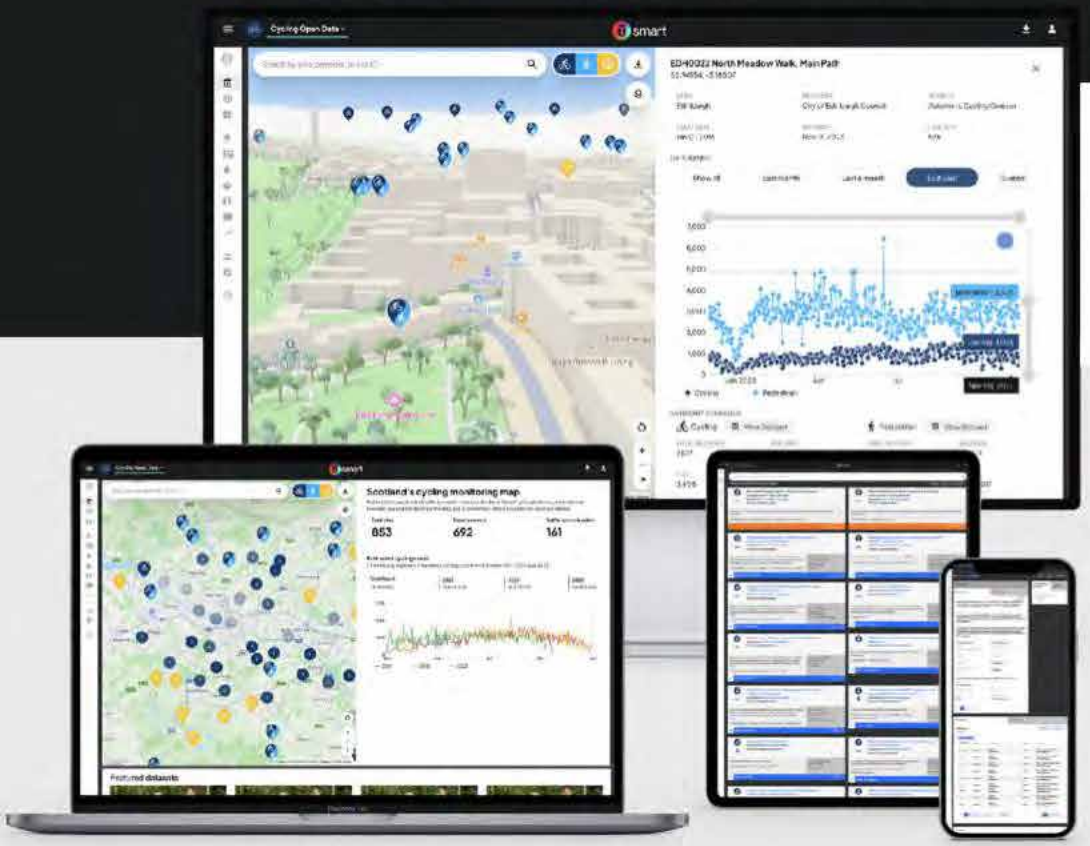
Deployed a comprehensive monitoring dashboard to track the delivery and impact of over £5 million in active travel investments across their network.

112

Impact monitoring across 112 projects and 19 delivery partners to track behavioural change interventions promoting active travel over private vehicles.

Real-Time multi-modal transport intelligence

Integrating nationwide multi-modal data to deliver actionable insights for sustainable transport planning, benchmarking, and tracking transport spend & improvements



Jacobs · TRANSPORT SCOTLAND · BURO HAPPOLD · Central Bedfordshire · Somerset Council · GO SEStran South East Scotland Transport Partnership

AECOM · sustrans · appyway · paths for all · Cycling Scotland

1000+

Network Scale: 1000+ transport sensors collecting 100,000+ hourly records across Scotland with real-time verification and analysis

654%

Impact Evidence: 654% increase in cycling with data-informed infrastructure. From 1.69% to 12.75% on City Way routes in Glasgow

£5.50 per £1

£2bn investment would deliver approximately **£11bn in public benefit.** (550% ROI)

https://www.ippr.org/articles/stride-and-ride

Decarbonising communities & supporting growth

The Islands Centre for Net Zero is addressing the need for fundamental change in how we approach the energy transition across Orkney, Shetland and the Outer Hebrides.

- Acceleration of a just decarbonisation & green job creation
- Cross-Sector Data - The key to national decarbonisation
- Support Islands Deal projects' achievement of decarbonisation goals

Cross-sector data

A single-source platform where the ICNZ can collect vast amounts of complex datasets from across the islands

ICNZ - Creating a low carbon future

£16.5m

UK Government is investing £16 million and the Scottish Government is investing £500,000 in ICNZ through the Islands Growth Deal.

Unlocking local data and turning ambition into targeted action

smart

Core Data & AI Platform

Any data from any source, built for sharing & AI ready

AI Applications

zero

Increases energy efficiency and target support services

move

Optimises transport benchmarking & planning

Let’s make a sustainable world with AI

Simon.Tricker@urbantide.com

UrbanTide.com
uSmart.ai

UrbanTide

Advanced Infrastructure

LAEP+

ai advanced infrastructure

12 FEBRUARY 2026

Mollie Atherton

LAEP+

Supporting local authorities plan and deliver net zero

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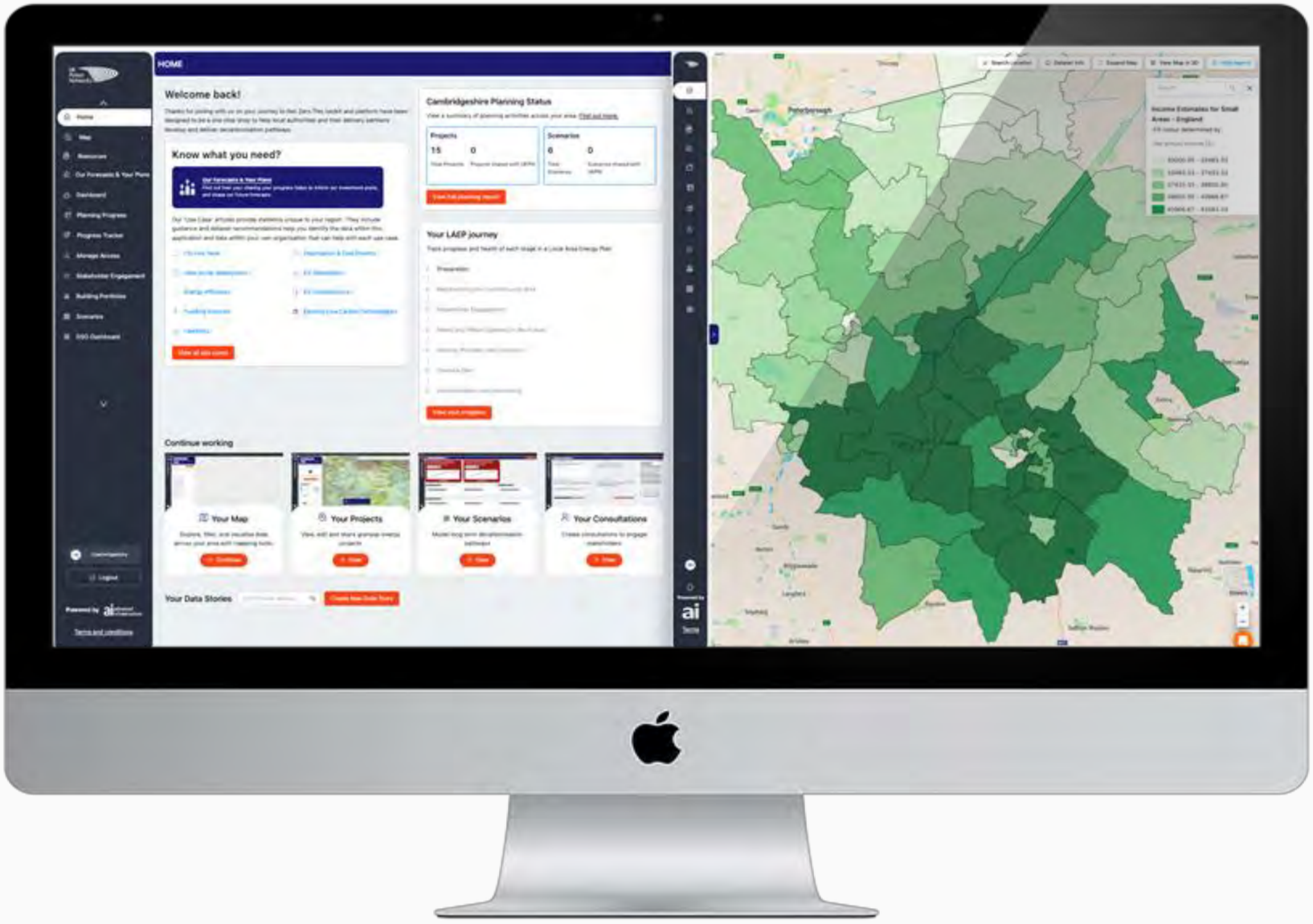
LAEP+

The LAEP+ Planning Tool is an award winning web-based net zero and decarbonisation planning tool, developed with local authorities and network operators.



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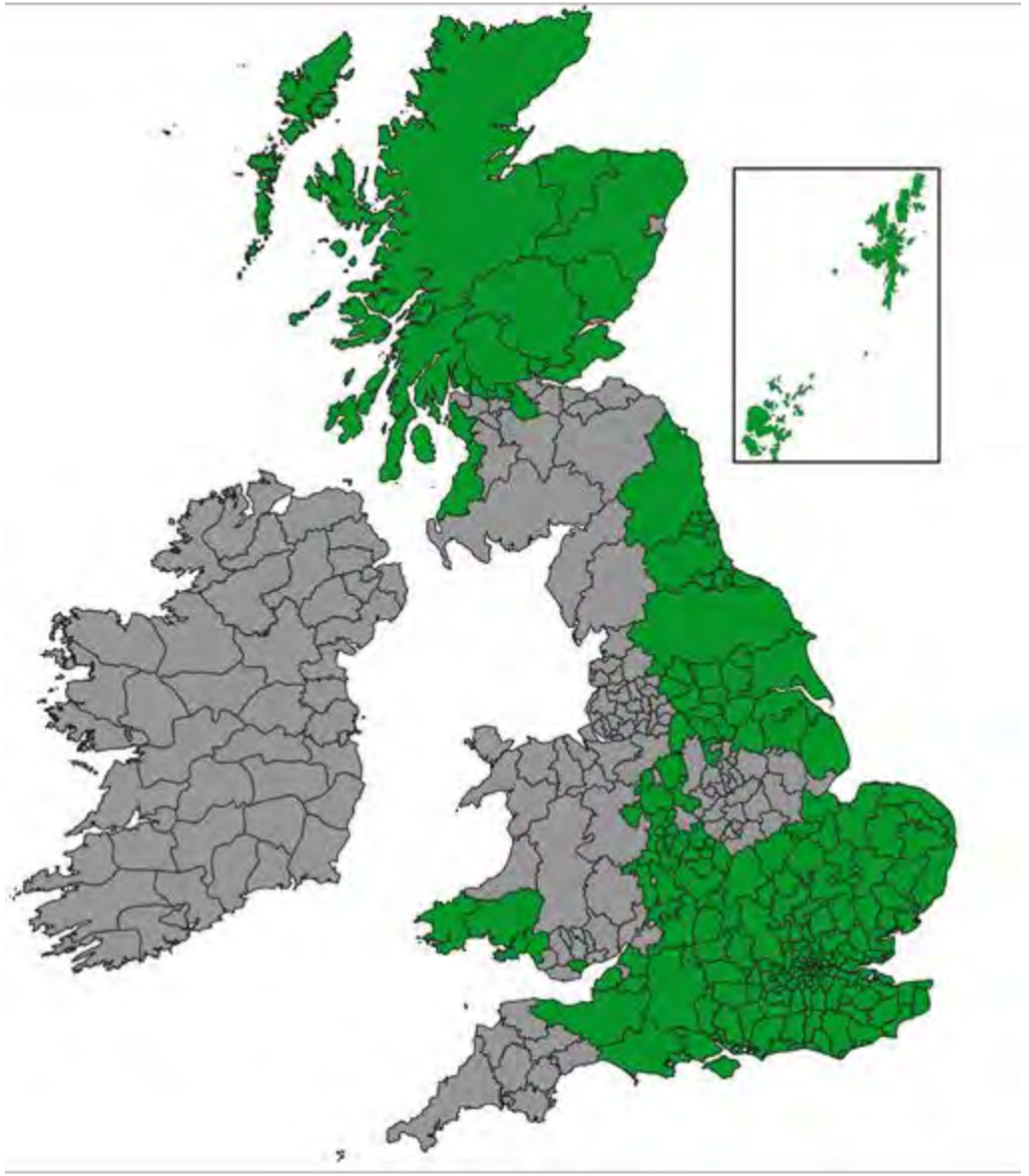
LAEP+ UK coverage

LAEP+ UK coverage is largely in areas where DNOs have licensed the tool to support local authorities in their areas share data on strategic energy planning.

1. **SSEN - full coverage**
2. **UK Power Networks - full coverage**
3. **Northern Powergrid - full coverage**
4. **National Grid - partial coverage**



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How does LAEP+ help LAs?

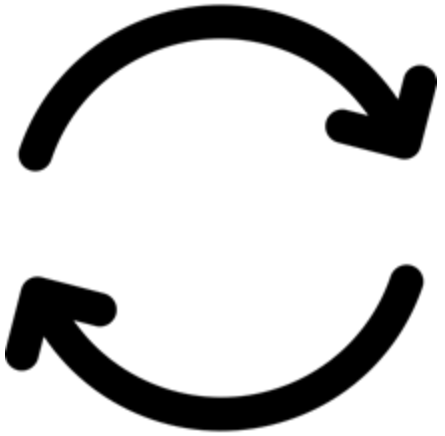
It brings benefits across local authority teams:

1. **Reduce cost** of data acquisition for Local Area Energy Plans and feasibility studies
2. **Rapidly identify opportunities** for energy and retrofit projects
3. Evidence **grant-ready business cases**
4. **Improve visibility** with collaboration across teams and stakeholders

Planning and Strategy

Climate and LAEP Teams

GIS & Data



Housing & Council Assets

Transport

Collaborators like consultants, contractors, Net Zero Hubs and more.

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What can you do with LAEP+ ?

Plus 9:00-17:00 Live Chat support on demand

Visualse, analyse and baseline your area's opportunities

Utilise geospatial data to help you make decisions with the best supporting evidence, including building level renewable potential and LAEP baseline datasets at no cost.

You can even upload your own data to use alongside the provided data sets.

Develop projects, plans and pathways to achieve goals

Easily model and assess low carbon technology deployments, then compare costs & benefits. Select specific buildings and locations, or by your chosen criteria to deploy at scale.

You can even explore longer term pathways to decarbonisation to understand what is achievable based on your targets.

Collaborate with stakeholders and colleagues in one workspace

Invite colleagues and authorised partners to use LAEP+. Guide stakeholders through potential plans and scenarios, to both inform and gather valuable insights and feedback.

You can carry out consultations within your own organisation, as well as with public stakeholders such as local residents or businesses.

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LAEP+ in action

1

PRIDE project - West Midlands
Strategic Innovation Fund project to explore LAEP+ and governance structure to support regional energy strategic planning.

2

Mission Net Zero - Bristol
Net Zero Living project, part of which is taking a portfolio approach to exploring investment opportunities for solar PV and storage on public-owned commercial buildings

3

Winchester LAEP and CLEP
Funded by SSEN and exploring the use of LAEP+ to produce a Local Area Energy Plan (LAEP) and Community Led Energy Plan (CLEP).

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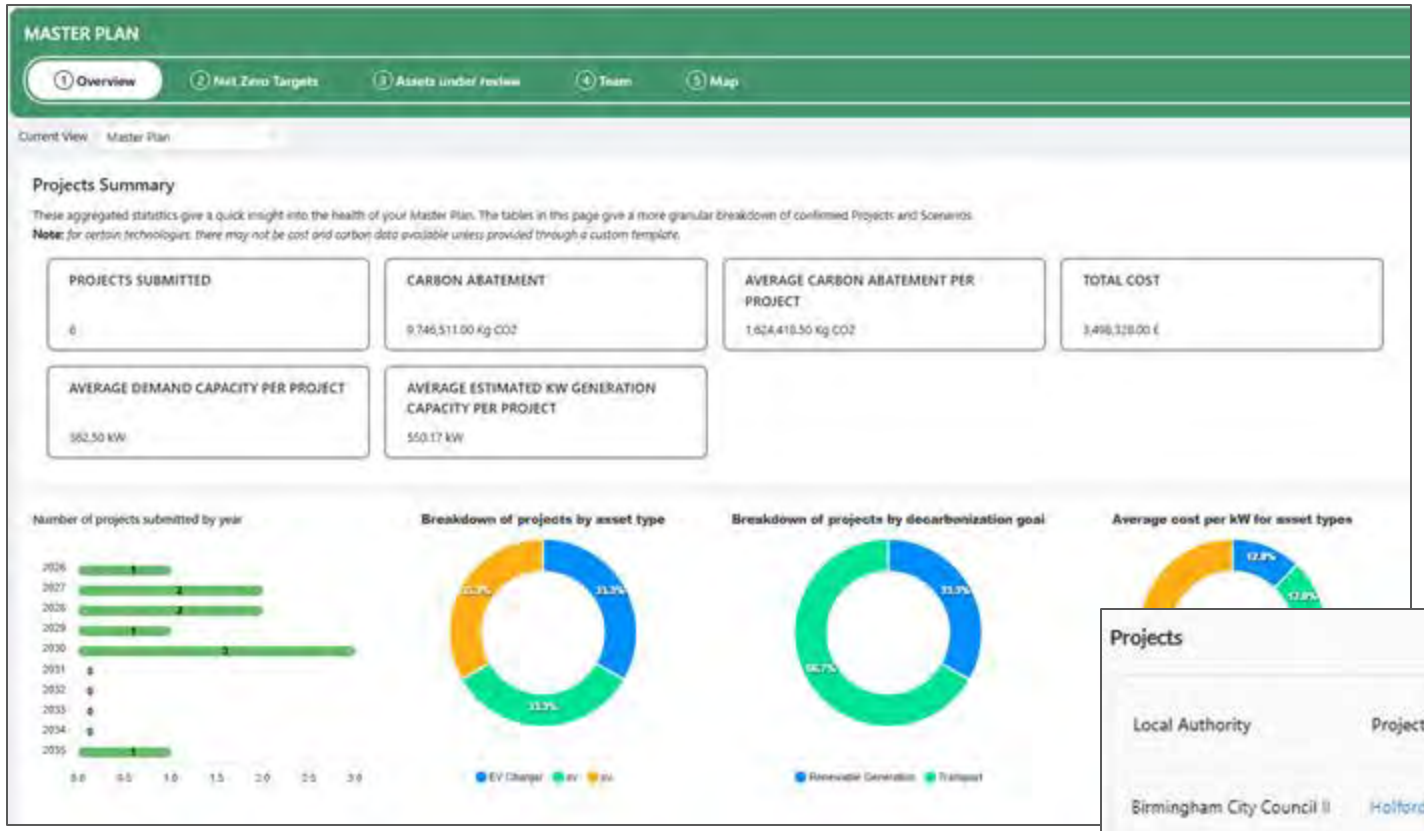
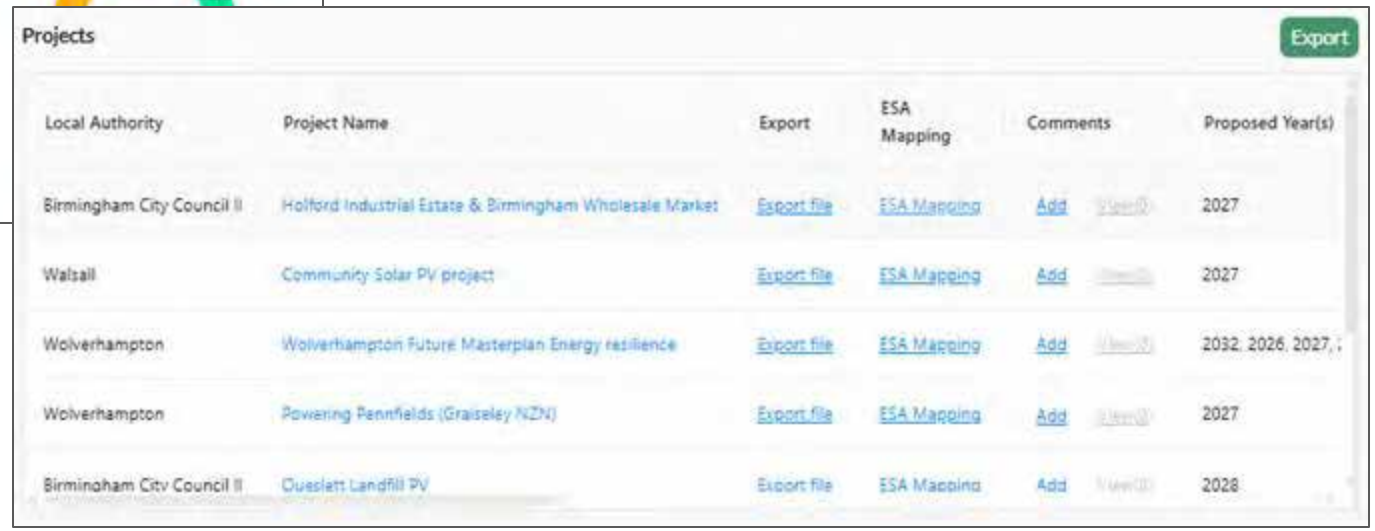
PRIDE



PRIDE key focuses:

- Facilitating data sharing between LAs and networks
- ‘Bottom-up’ style approach to energy planning - aggregating projects/plans/scenarios to create ‘patchwork quilt’ regional energy plan



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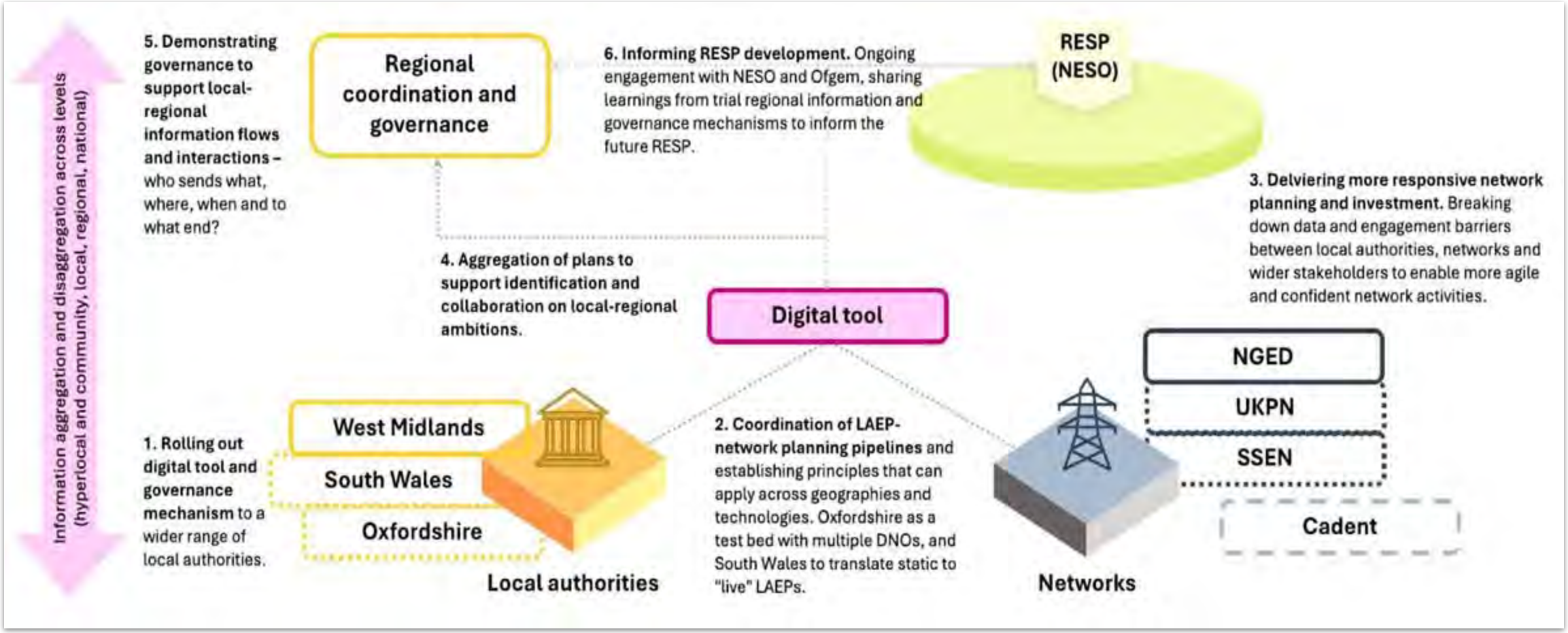
PRIDE



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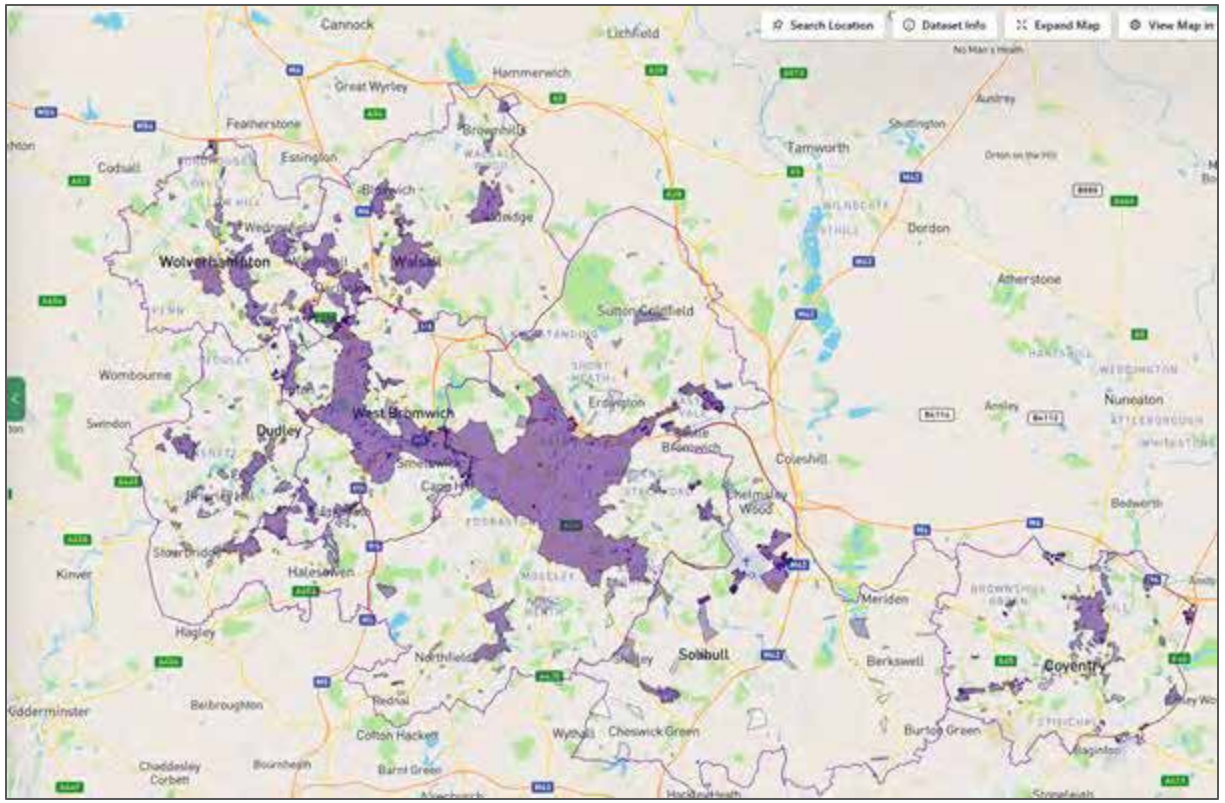
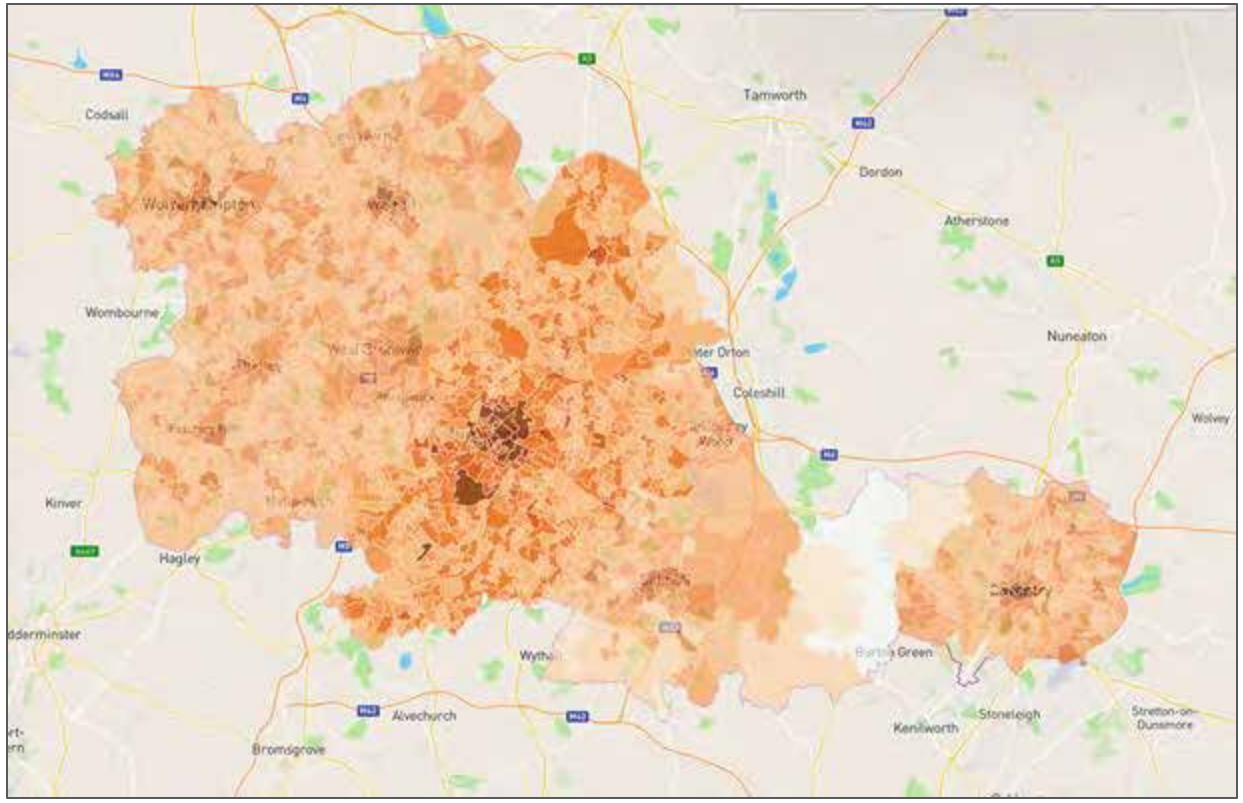
PRIDE

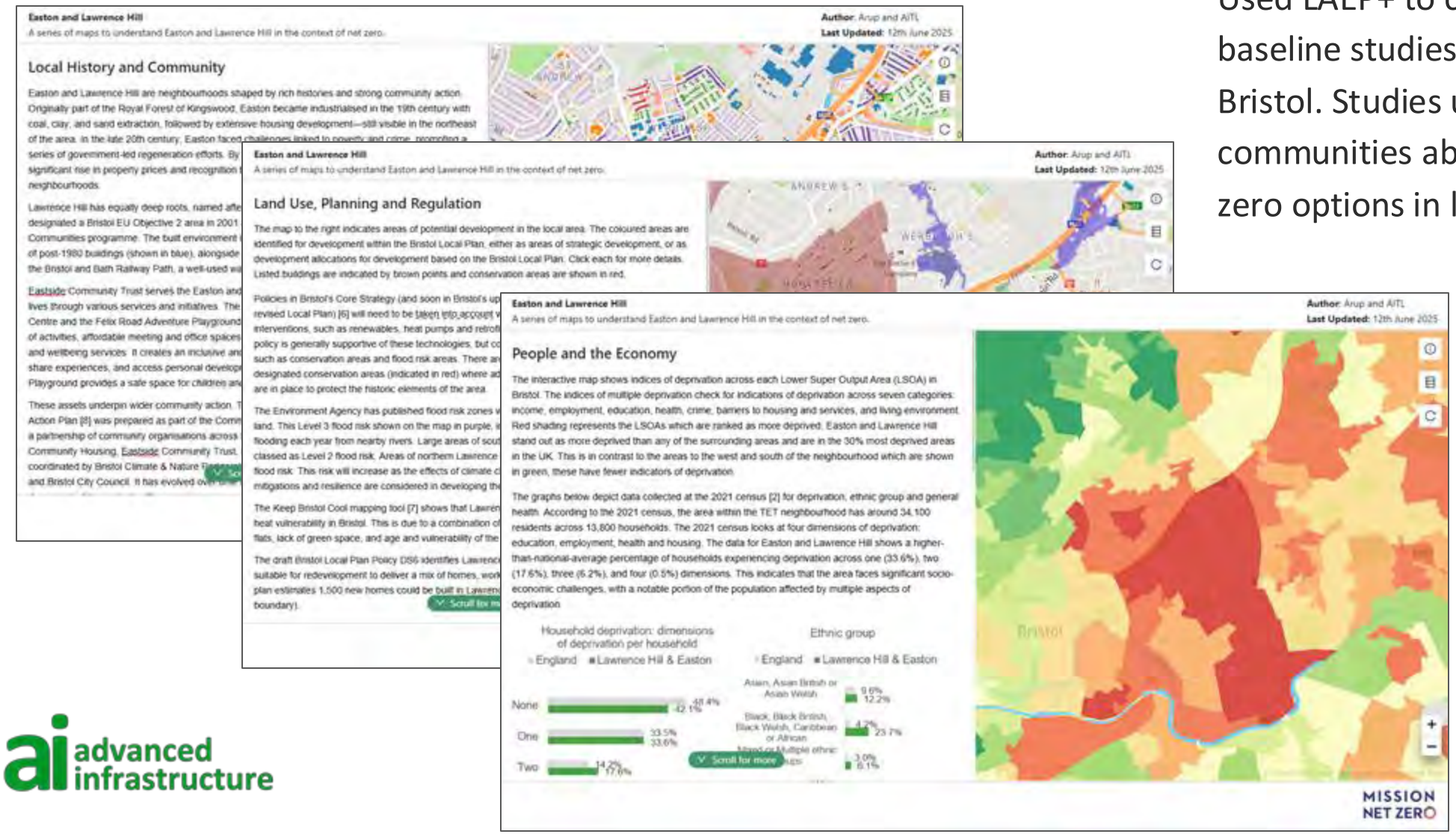




PRIDE data layers to support local energy planning:

- Mapping industrial buildings and clusters
- NESTA heat network suitability by LSOA

Mission Net Zero



Mission Net Zero baseline studies:
Used LAEP+ to create hyperlocal baseline studies for wards across Bristol. Studies used to engage communities about energy and net zero options in local neighbourhoods

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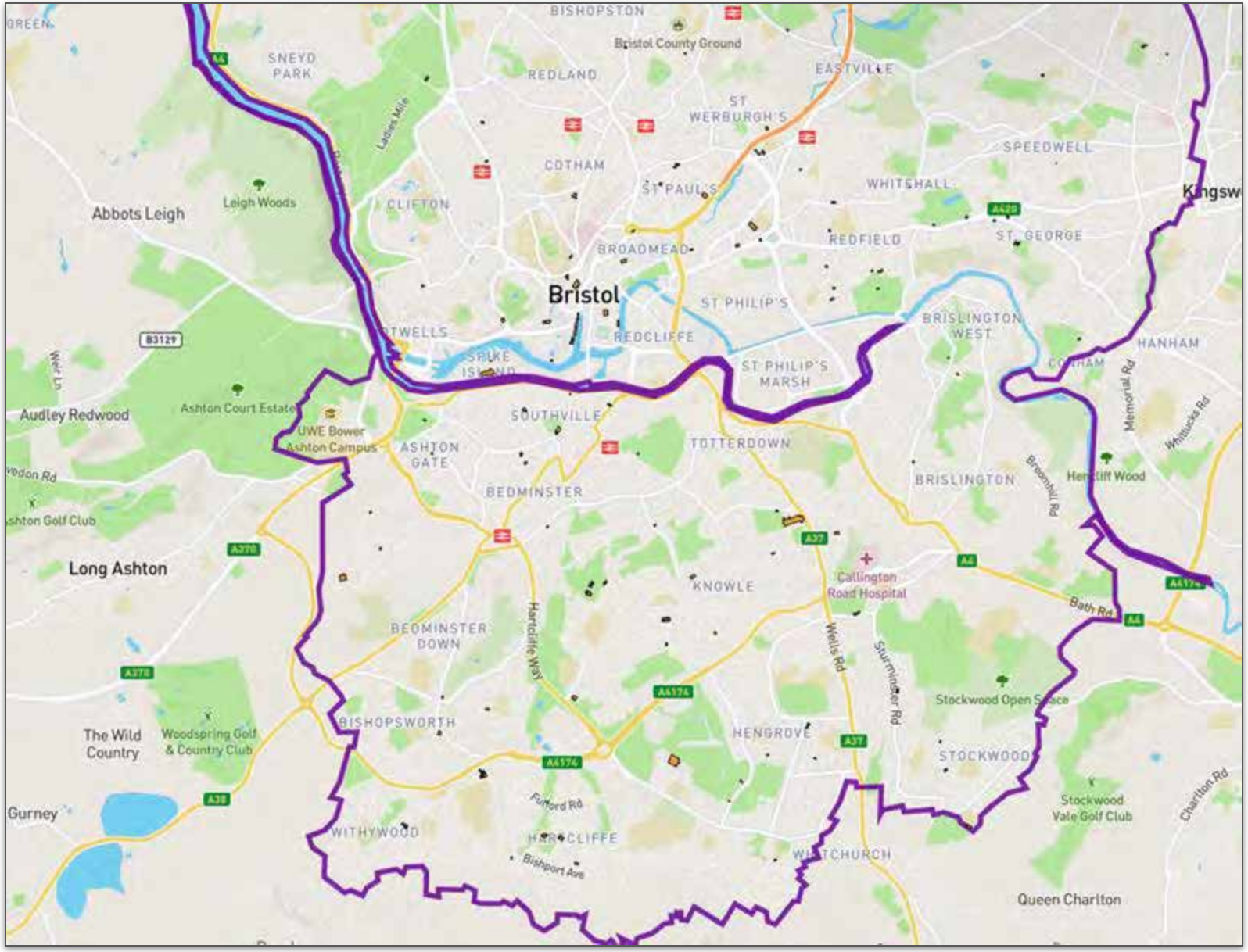
Mission Net Zero

Mission Net Zero portfolio approach to planning:
Used LAEP+ and council-owned data to explore opportunities for solar PV and storage on council-owned commercial buildings. Goal is to package as portfolio of investment opportunities rather than building-by-building approach.



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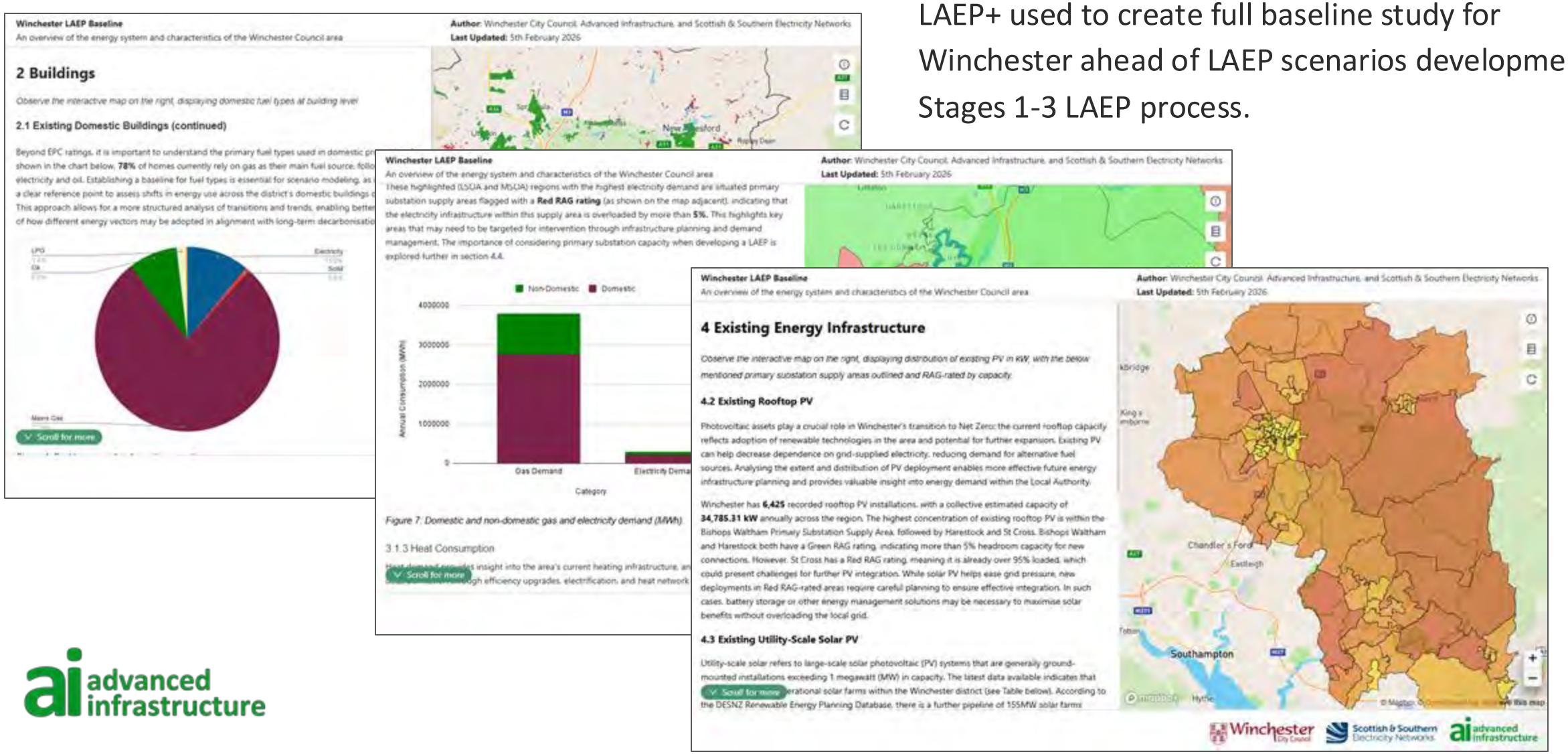
Winchester LAEP and CLEP

Winchester LAEP baseline

LAEP+ used to create full baseline study for Winchester ahead of LAEP scenarios development.

Stages 1-3 LAEP process.



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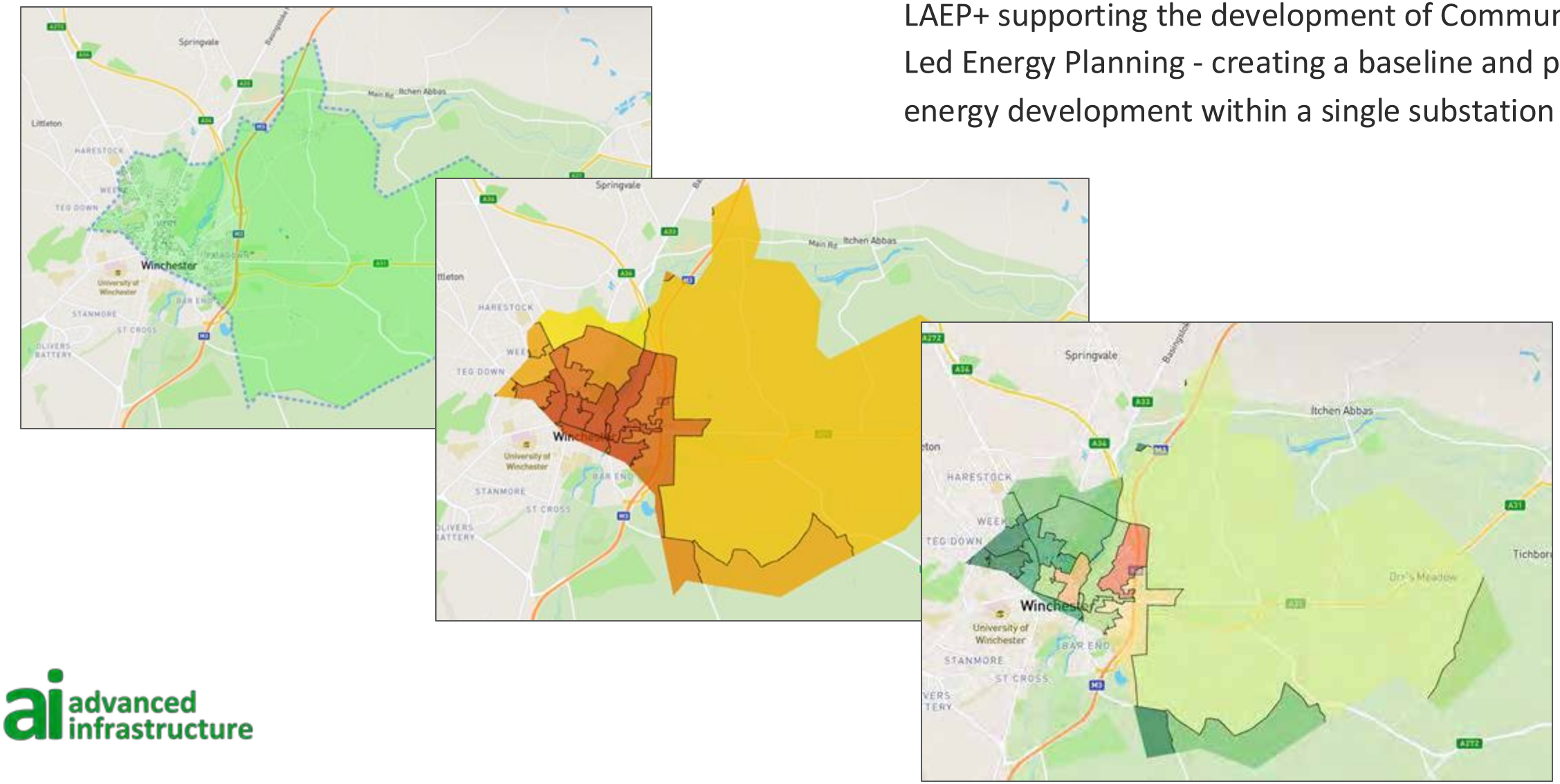
Winchester LAEP and CLEP



Winchester CLEP

LAEP+ supporting the development of Community Led Energy Planning - creating a baseline and plan for energy development within a single substation area

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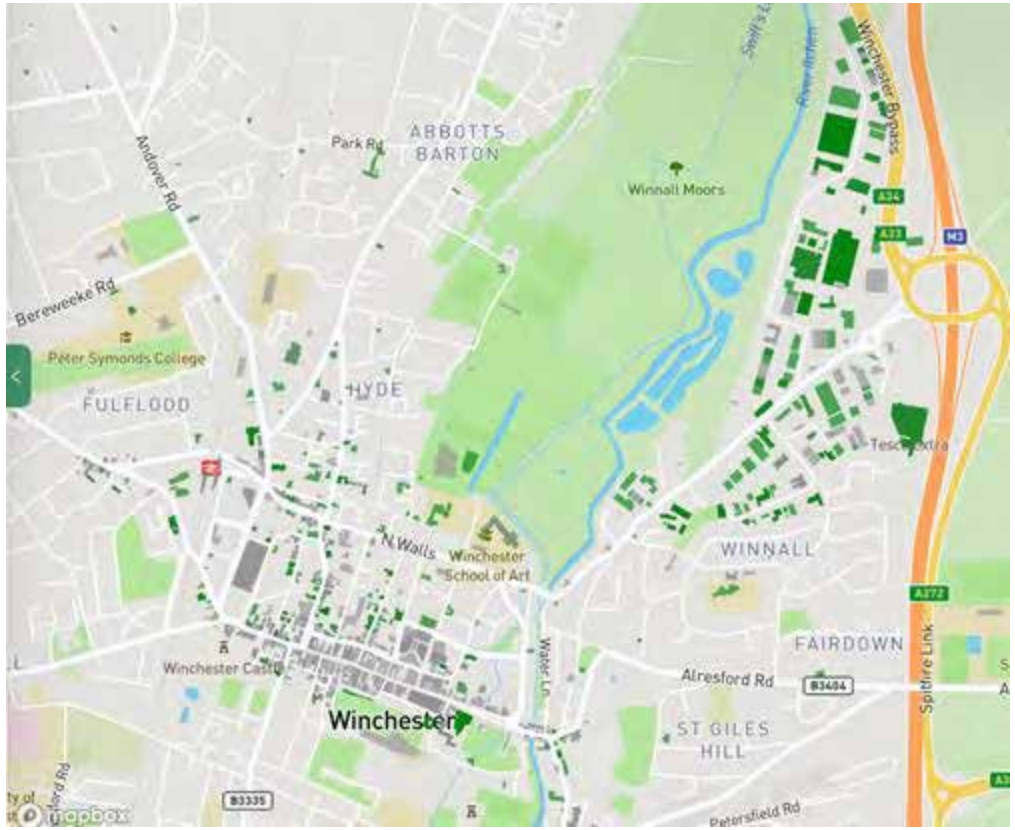
Winchester LAEP and CLEP



Winchester CLEP

Exploring building-level net zero opportunities within the same primary substation area

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www.advanced-infrastructure.co.uk

edenseven

cero.earth

Climate Programme Management System for Local Authorities

Alejandro Navarro – Director of Technology

AI, Data and Digital for Net Zero

ENABLING SUSTAINABLE GROWTH

BUILDINGS | ELECTRICITY | SUPPLY CHAIN | TRANSPORT

Supporting **public and private** sector organisations transition to a low-carbon economy.

Combining subject matter expertise with data analytics and digital solutions

IUK **Net Zero Living** Demonstrator

Mining Remediation Authority

Iceland

Blackpool Council

greateranglia

LOGISTICS Mawdsleys

NetworkRail

THAMES FREEPORT

PETERBOROUGH CITY COUNCIL

Paythru

Close Brothers Modern Merchant Banking

David Lloyd CLUBS

TELEHOUSE

ABOUT the demonstrator

A set of practical tools to empower Local Authorities to identify, coordinate and facilitate the delivery of net zero projects at pace and scale.

Climate Management System

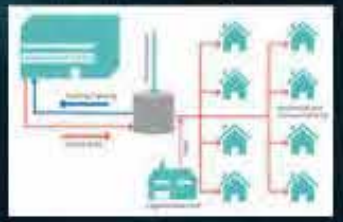
Project Identification Tool

Project Delivery Tool

Engagement & go-to-market

Funding Mechanisms

Test Cases: Heat Network Heat Pumps



PETERBOROUGH CITY COUNCIL

edenseven
Enabling sustainable growth

Nordic Energy

CATAPULT Energy Systems

Cambridgeshire County Council

PECT
CREATING SUSTAINABLE PLACES

The Challenge of Managing Climate Programms

In early meetings, Climate Officers consistently highlighted four issues around data and management:

- Fragmented, manual climate data mgmt.
- Insufficient capacity and capabilities
- Alignment of actions and plans
- Tracking impact and communicating progress

OVERVIEW OF CERO.EARTH FEATURES

Accounting

Consistent, and auditable emissions data.

Actioning

Unified and consistent management of projects.

Strategising

Actionable insights for better decision making.

Communicating

Automation of reports and disclosure information.

Tested with Peterborough City Council and 6 other Local Authorities

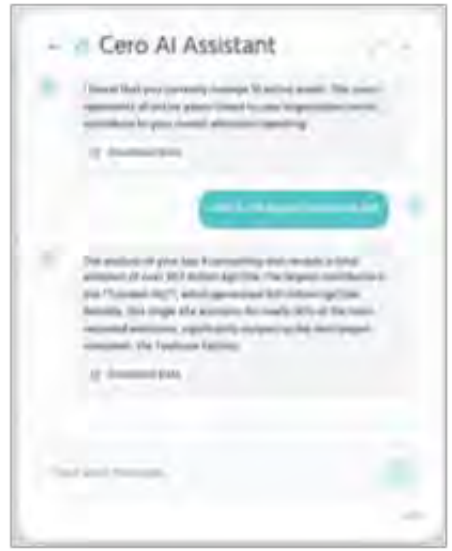
THE INNOVATION: A CLIMATE PROGRAMME MANAGEMENT TOOL ENABLED BY DATA AND AI

Programme approach - from measurement to planning and delivering

Council Controlled Emissions & Area-wide Emissions

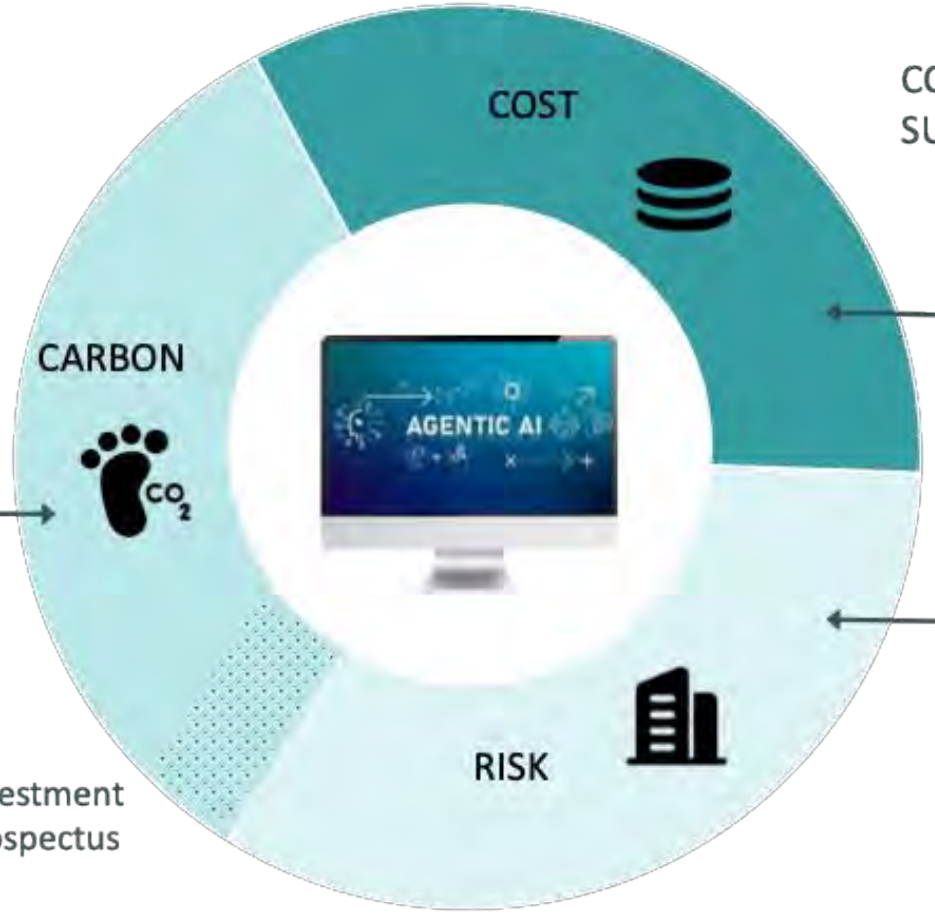
Use of scalable infrastructure and flexible data model

Use of AI for classification, data matching and natural language queries



BEYOND CARBON MANAGEMENT: HARNESSING DATA AND AI TO DRIVE DOWN CARBON, COST AND RISK

The platform is moving beyond traditional boundaries. By taking detailed site, spend and supplier data, companies can extract INSIGHT into asset profitability and potential cost out opportunities



CARBON REPORTING & MANAGEMENT

Investment Prospectus

cero.earth if fully operational and available

To learn more about how the tool could support your climate plans, or to share feedback, please reach out to:

- Alejandro Navarro - anavarro@edenseven.co.uk
- info@edenseven.co.uk

THANK YOU !!!

Q&A

www.iuk.ktn-uk.org

Innovate UK | Business Connect

Upcoming Events

Meet the Innovator Webinar Series:

- Heat Pumps – 2nd March 10-11 AM
- Carbon capture, usage and storage– 16th March 2-3 PM

Net Zero Living Programme Showcase:

- Manchester, 5th March, 9:30-16:30.