Data-driven fleet planning for cost saving & decarbonisation

DYNAMON

Empowering fleets for tomorrow. Today

AFP Association of Fleet Professionals

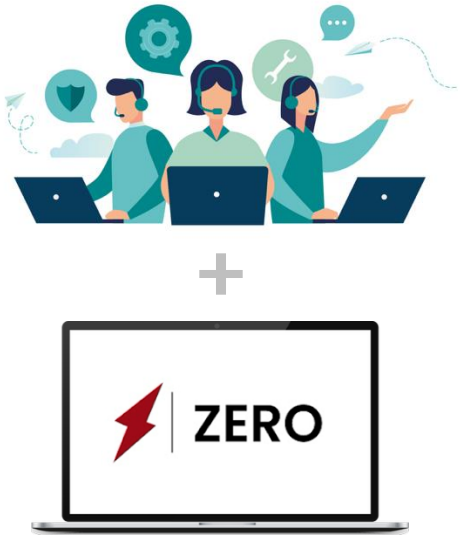
THE EV Café

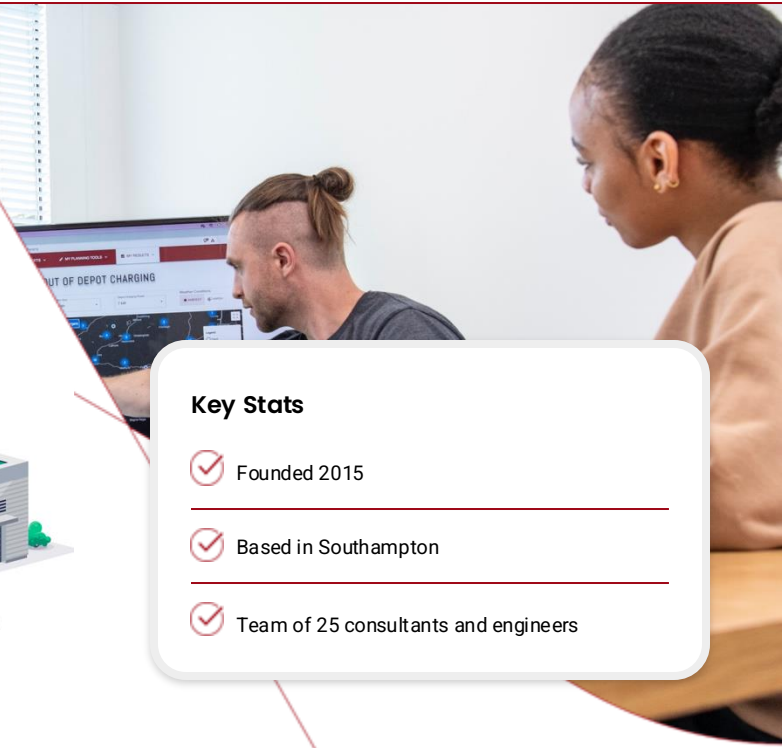
RHH

Zemo Partnership

SILVER | Top 15%
ecovadis
Sustainability Rating
MAR 2024

Fleet Decarbonisation Experts Driven by Technology



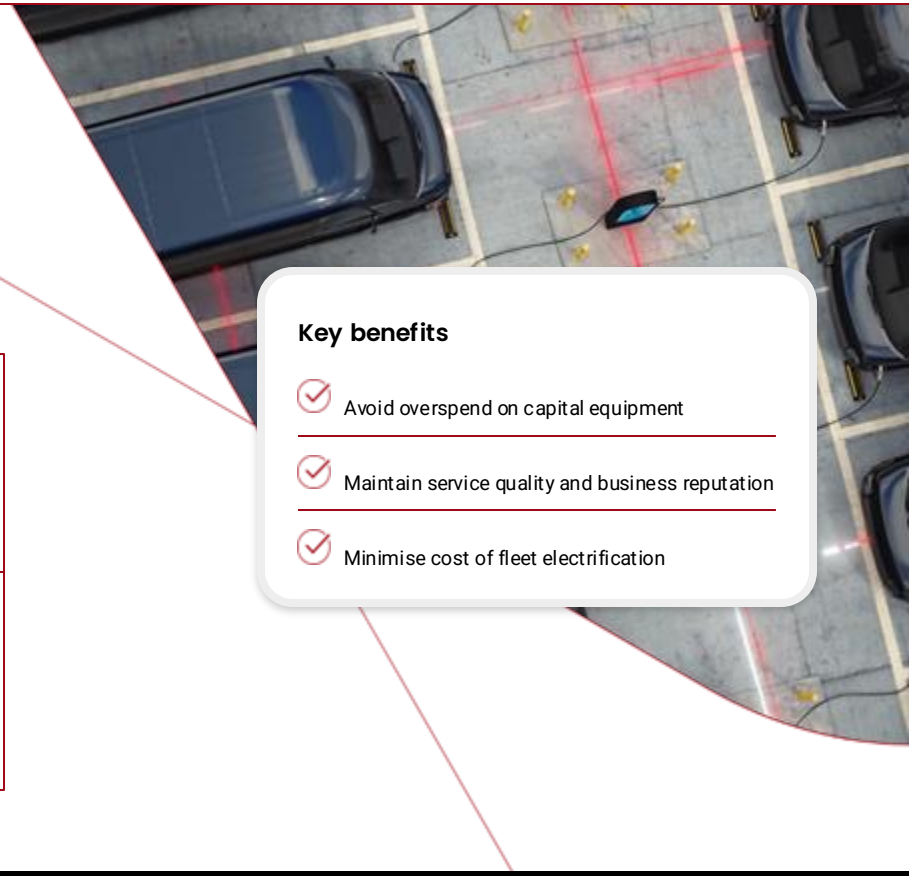


Key Stats

- Founded 2015
- Based in Southampton
- Team of 25 consultants and engineers

A planned transition is a low-cost transition

Maintain business continuity and minimise disruption	Provide certainty across all departments
Meet company sustainability goals cost-effectively	Increase long-term growth and profitability



Key benefits

- Avoid overspend on capital equipment
- Maintain service quality and business reputation
- Minimise cost of fleet electrification

Cost Differences Across Chargers and Battery Sizes

Charger

Cost

- **7kW** — £2k
- **22kW** — £5k
- **50kW** — £30k
- **150kW** — £75k

Van - Battery size

Cost

- **50kWh** — £47k
- **75kWh** — £66k
- **90kWh** — £73k

Trucks - Battery size

Cost

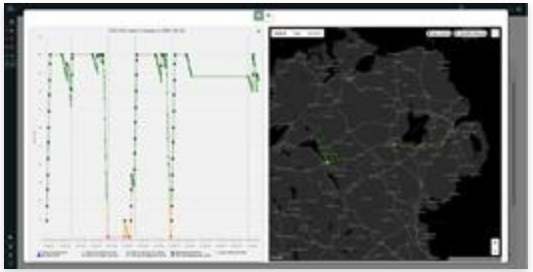
- **400kWh** — £200k
- **500kWh** — £240k
- **600kWh** — £280k

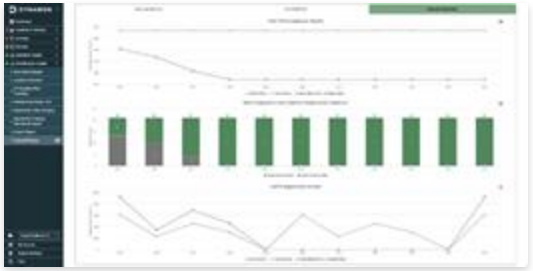
01

ZERO

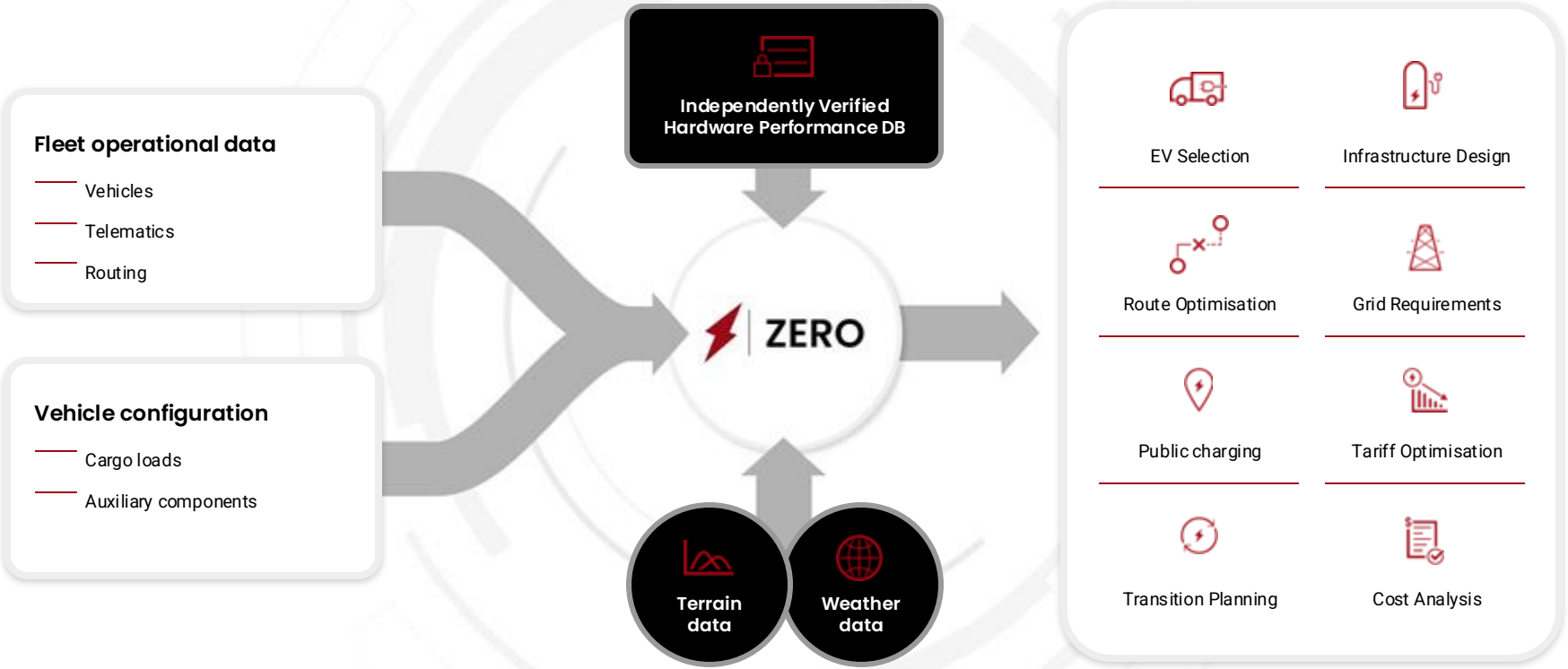
ZERO - Key Benefits

EV selection and range prediction	Grid & infrastructure design
Public charging & route optimisation	Total cost analysis & tariff optimisation



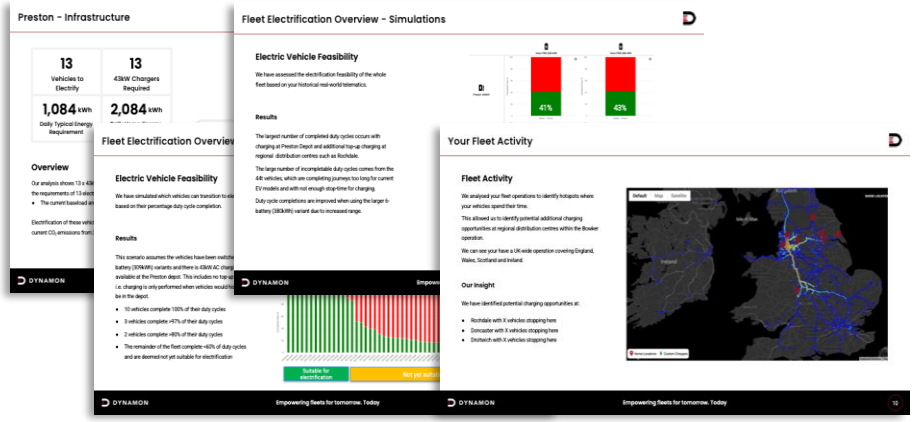


How Zero Works



Say Goodbye to Complex and Expensive Fleet electrification

Comprehensive report for fleet electrification at a fraction of the typical £50,000 consultancy cost



ZERO by DYNAMON

ZERO Electrification Planning Report provides clear, data-backed answers to key questions:

- Which electric vehicles and charging setup—number and power—best fit your operation??
- Which vehicles should be electrified, when should this happen, and what's the best rollout strategy?
- What low-carbon fuel alternatives are viable for operations where EVs aren't the best fit?
- What are the total cost of ownership (TCO) implications and projected CO_2 savings?

Prices tailored to your fleet size

£4,990 For up to 50 vehicles	**£6,990** For 50 to 100 vehicles
£8,990 For 100 to 200 vehicles	**£10,990** For 200 to 300 vehicles

Price on request for 300+ vehicles

How To Work With Dynamon

Direct

Royal Mail · currys · Transport for London · ASDA · Metropolitan Police · Sainsbury's

Consultants

Baringa · ARUP · e-motions · PA · CGI · TRC

Partners

Telematics
Charging Infrastructure
Leasing
OEMs

VOLVO · TOYOTA · Teletrac Navman · bp pulse · webfleet · Zenith

How To Work With Dynamon - VIDEO

https://dynamon.co.uk/resources/how-to-work-with-dynamon/

02

Use cases

Electrification Plan for South East Water with ZERO

The solution

Dynamon's ZERO software provided:

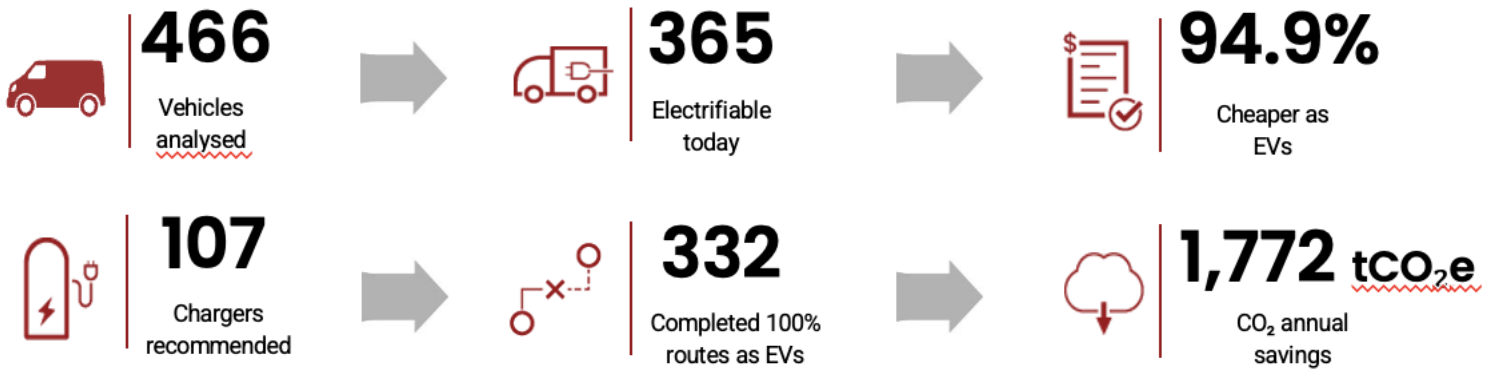
- Analysed 1 million+ miles of telematics data across the fleet.
- Simulated 8 replacement EVs under harsh conditions to test route feasibility.
- Designed depot-specific charging strategies (managed vs unmanaged)
- Built a TCO model showing long-term savings from electrification.
- Produced a phased rollout plan aligning vehicle replacement with EV readiness.

Objective

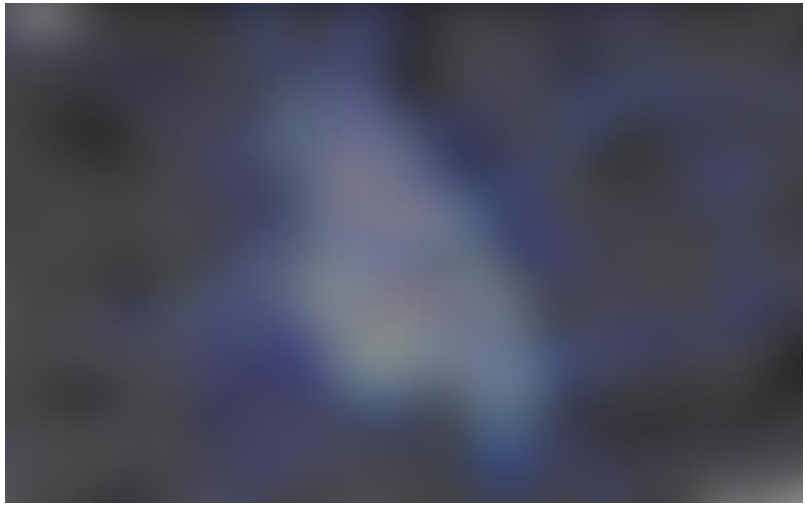
Identify which vehicles can transition to EVs, what charging is required at each depot, and build a cost-effective rollout strategy towards SEW's 2030 decarbonisation target.

Recommendation

- Install a mix of 7kW, 11kW, and 50kW depot chargers with managed load systems at 7 depots.
- Enable home charging for drivers (>93% journey completion).
- Use public charging top-ups for <95% feasible vehicles.
- Phase rollout: 394 EVs by 2029.
- Monitor 3 depots (Snodland, Boxalls Lane, Hockers Lane) closely for highest energy demand



MET Police’s Route Electrification with Dynamon’s ZERO



The solution

Dynamon’s ZERO software provided:

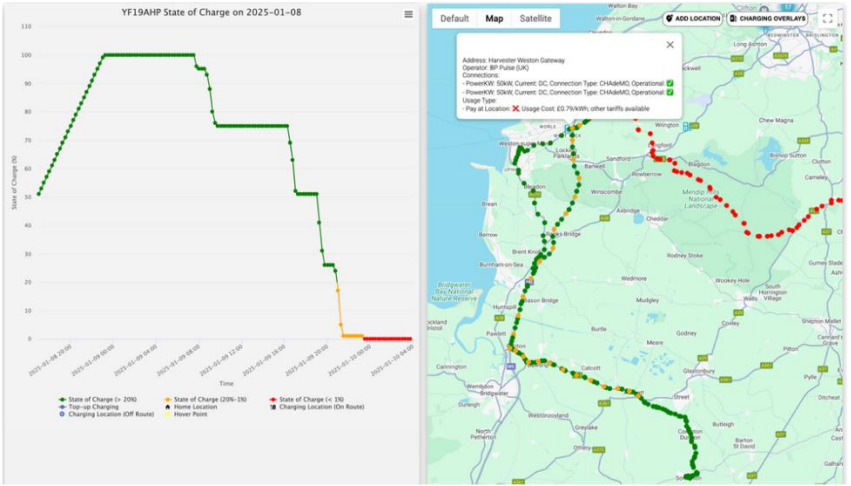
- Comprehensive fleet analysis, identifying suitable EV models.
- An optimised charging infrastructure plan.
- Clear recommendations for infrastructure sites.

Objective

Complete a combined telematics and synthetic based analysis to assess EV feasibility, determine charging infrastructure needs, and deliver a phased, cost-effective plan for fleet electrification.

MET Police's Route Electrification with Dynamon's ZERO

Fleet Decarbonisation Planning - Wales & West Utilities with ZERO



The solution

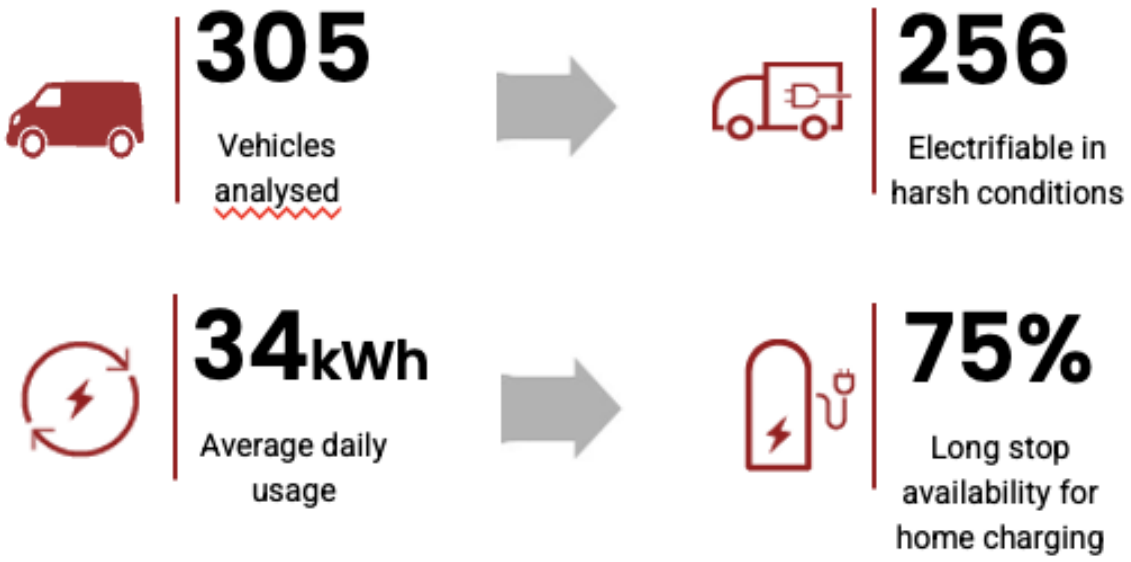
Dynamon's ZERO software provided:

- Simulated Toyota Proace Medium (75 kWh) and Proace Max (110 kWh) vans.
- Tested under standard and harsh (-20% battery) conditions.
- Modelled home-charging-only (7.2 kW).
- Identified high-suitability vehicles and those needing additional charging support.

Objective

- Assess the feasibility of electrifying WWU's van fleet using Toyota's Proace EV range, identify vehicles requiring additional support, and recommend a transition strategy that maintains operational resilience.

Fleet Decarbonisation Planning - Wales & West Utilities with ZERO



Recommendation

- Adopt a home-charging-first strategy for majority of vans.
- Provide public rapid charging access or depot top-ups for edge cases.
- Use Toyota Proace Medium and Max EV mix to balance daily duty cycles..
- Phase rollout prioritising electrification-ready vehicles, while monitoring high-mileage vans.

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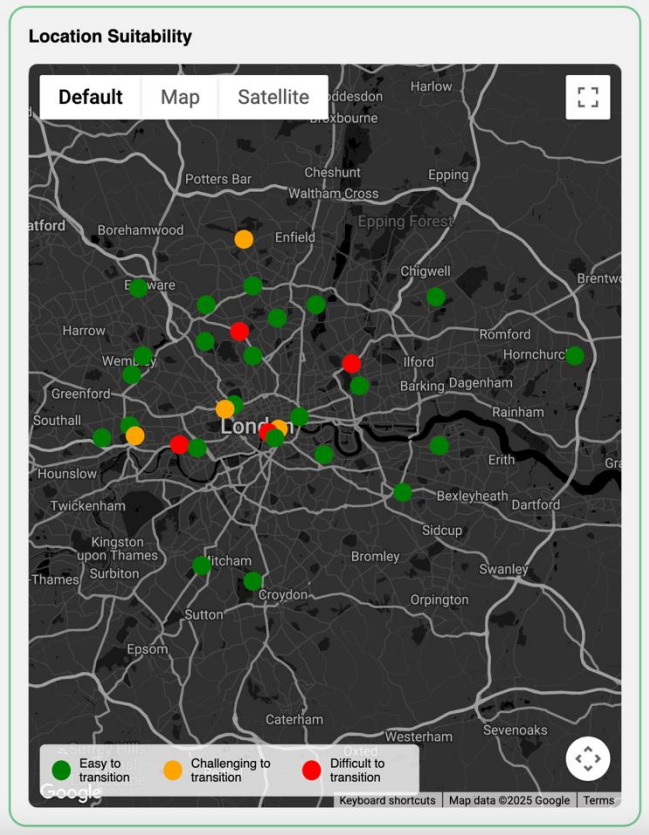
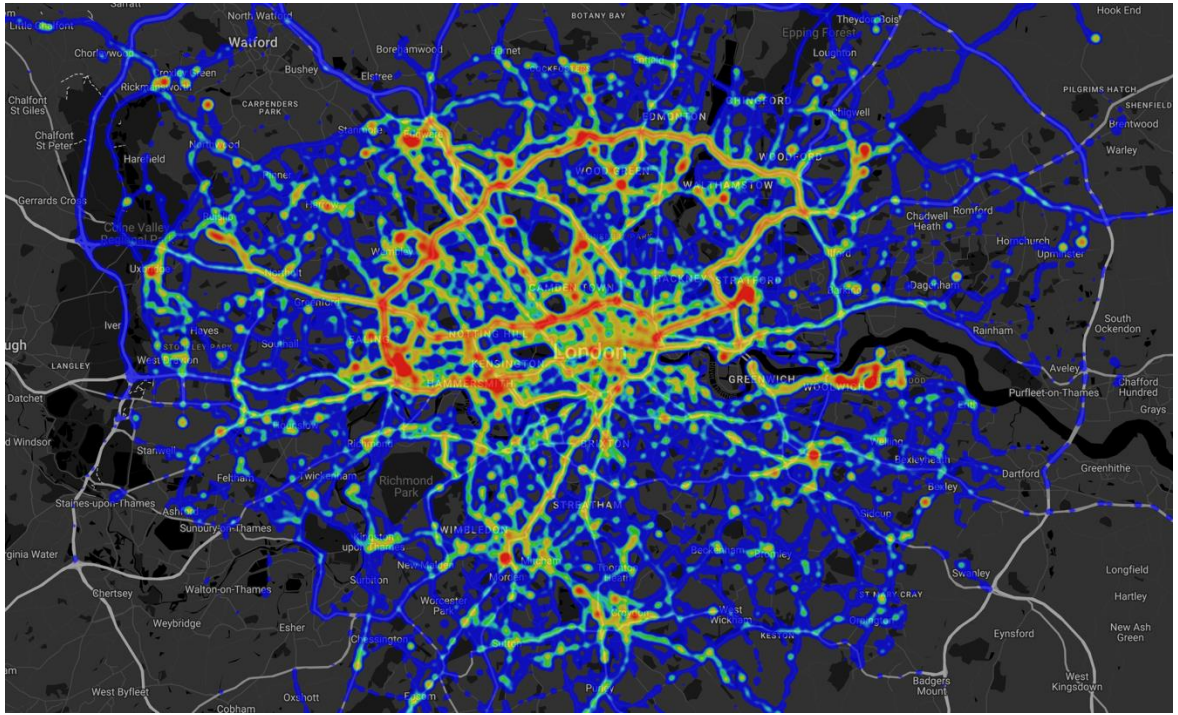
WORKING IN PARTNERSHIP

Transport for London

Transport For London – Engineering Services Fleet



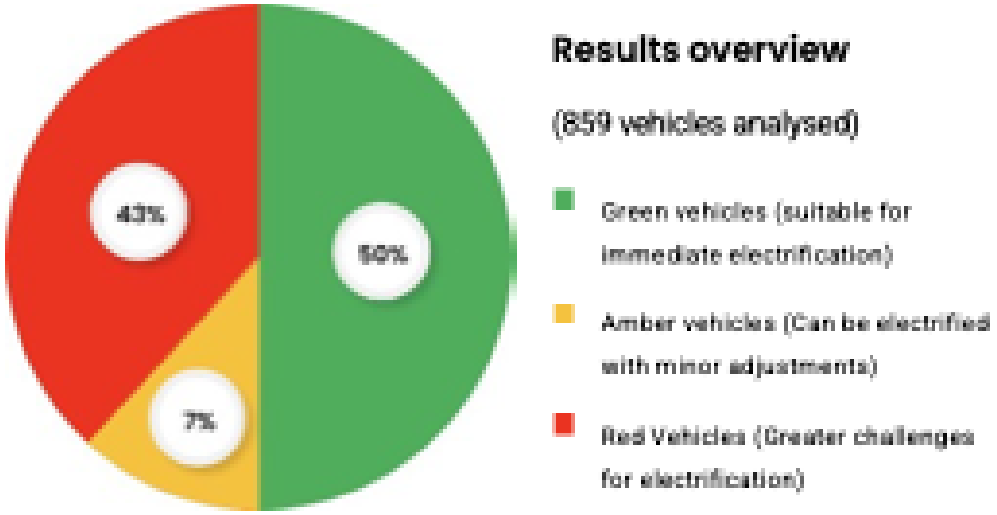
Transport For London – Engineering Services Fleet



ZERO

Transport for London

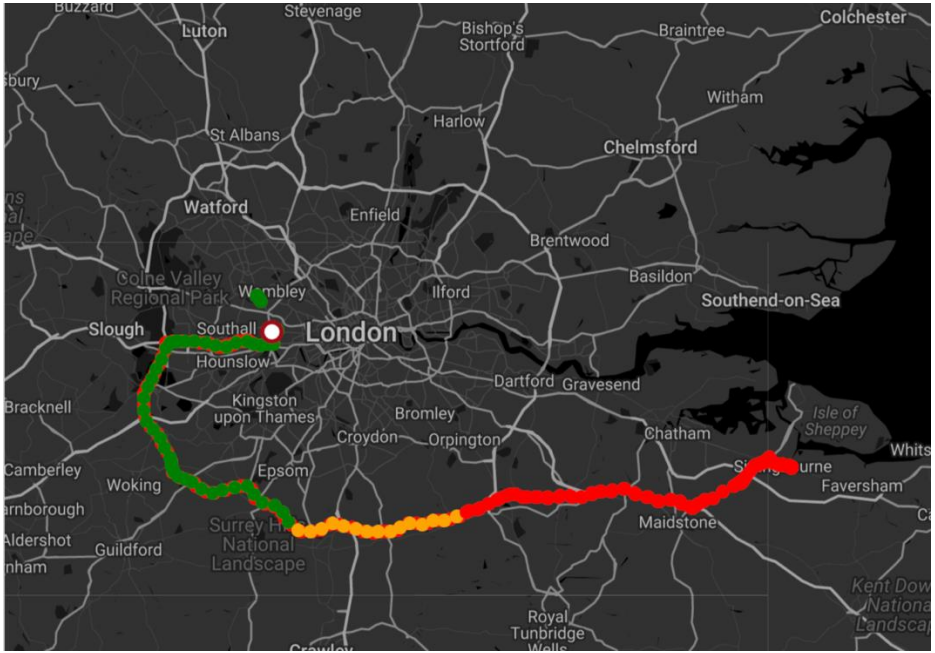
- 859 Vehicles
- Telematics data integration
- 100 driving days per vehicle
- 4.4 million kms analysed
- 356 Depot Locations analysed

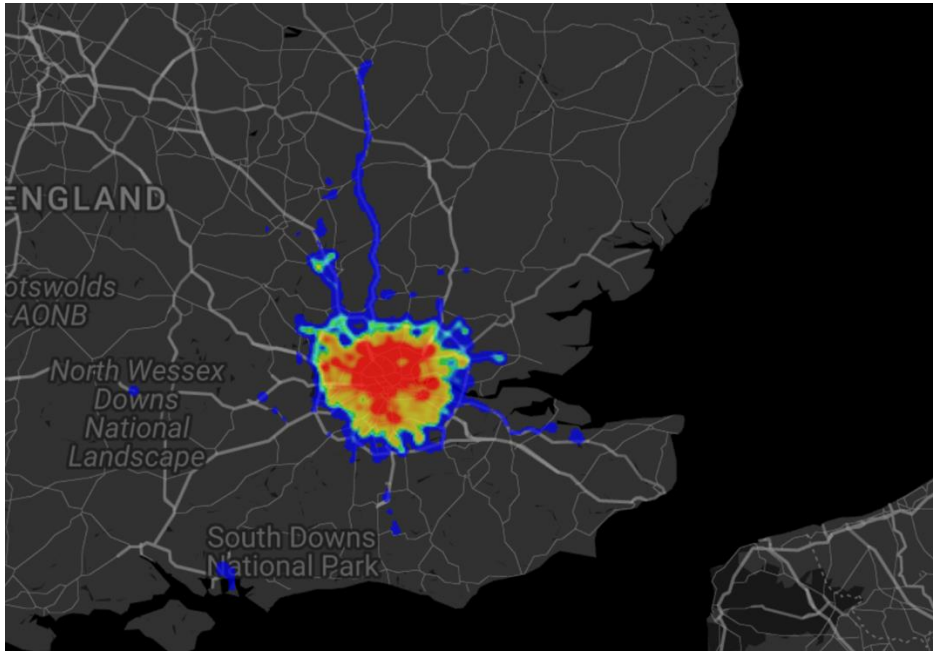


20%

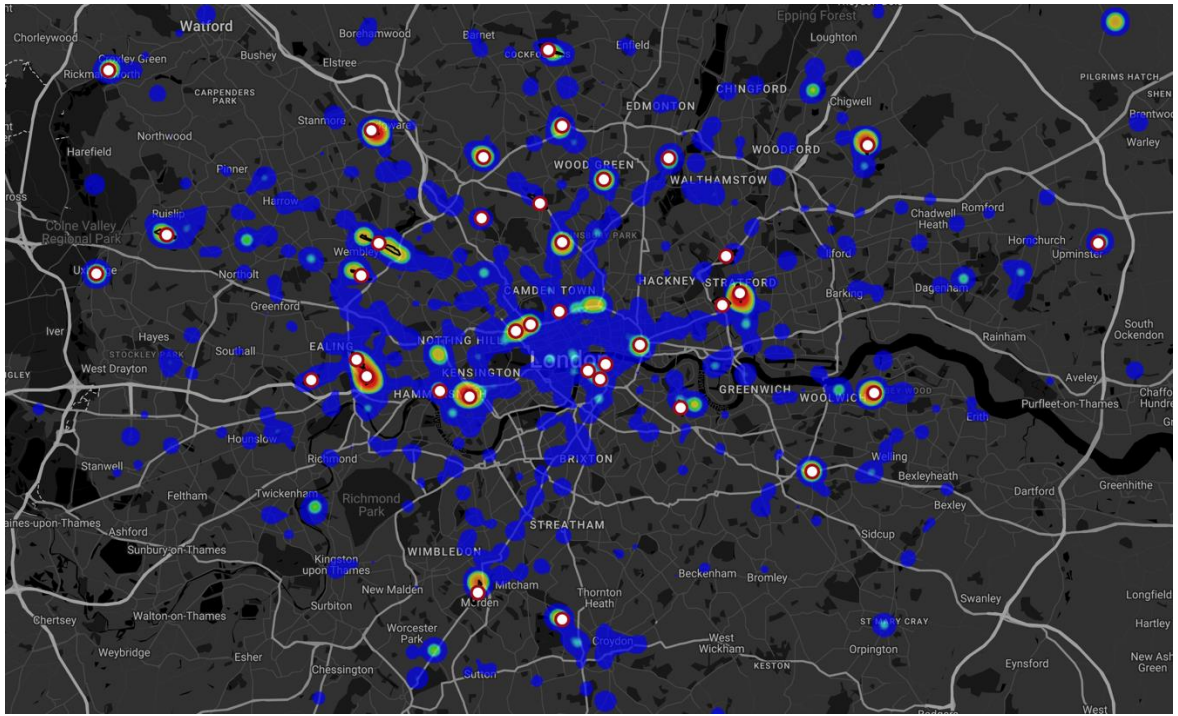
Cost savings from optimized EV battery size. Saving £1m.

Transport For London – Engineering Services Fleet





Transport For London – Engineering Services Fleet



ZERO

Transport for London

- Dwell locations identified
- 36 Charging locations chosen
- Charging infrastructure designed
- Grid requirements determined

Transport For London – Engineering Services Fleet – Optimising Charging

Zenith: Group: Specialist Facilities Management Company

Heavy Panel Vans (HPV) – 45 Vehicles

- **Suitable EVs models**
  75 kWh or
  110 kWh models
- **Infrastructure**
  3.6kW Chargers: 4
  7kW Chargers: 15
- **TCO Impact from EV replacement**
  83.3% have lower TCO as ICE
  16.7% same as EVs

Medium Panel Vans (MPV) – 44 Vehicles

- **Suitable EVs models**
  7 35kWh, 20 50kWh
  and 15 75kWh models
- **Infrastructure**
  3.6kW Chargers: 42
- **TCO Impact from EV replacement**
  9.5% have lower TCO as EV
  59.5% same as EVs

Saloon – 28 Vehicles

- **Suitable EVs models**
  7 57.5kWh, 9 40kWh
  and 12 77kWh models
- **Infrastructure**
  3.6kW Chargers: 28
- **TCO Impact from EV replacement**
  3.6% have lower TCO as EV
  60.7% same as EVs

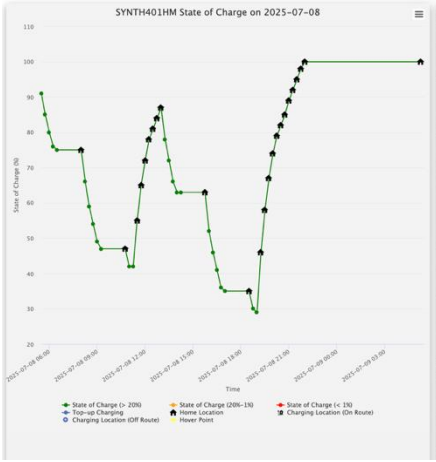
SUVs – 10 Vehicles

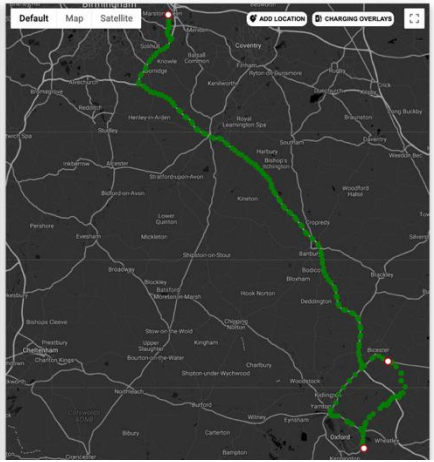
- **Suitable EVs models**
  3 30kWh and 6
  50.8kWh models
- **Infrastructure**
  3.6kW Chargers: 9
- **TCO Impact from EV replacement**
  75% have lower TCO as ICE
  25% same as EVs

Estate – 10 Vehicles

- **Suitable EVs models**
  3 30kWh and 1
  50.8kWh
- **Infrastructure**
  3.6kW Chargers: 4
- **TCO Impact from EV replacement**
  100% have lower TCO as ICE

DP World's Route Electrification with Dynamon's ZERO





The solution

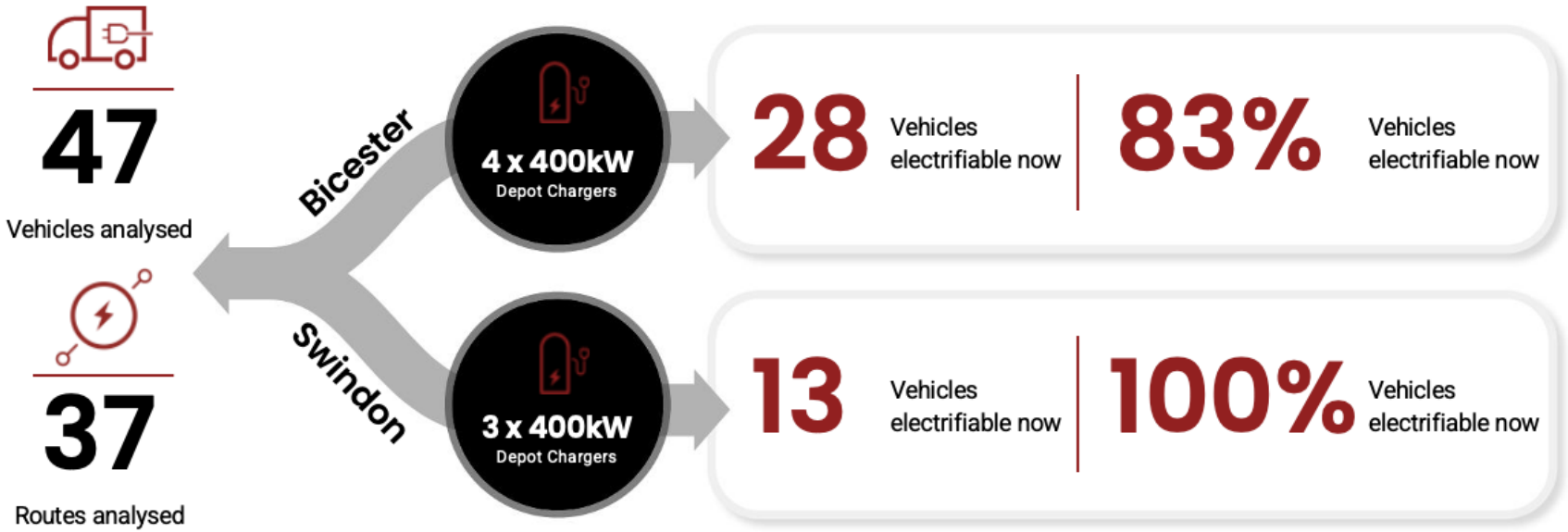
Dynamon's ZERO software provided:

- Route based EV feasibility analysis, simulating a MAN eTGX
- Charging infrastructure design based on smart load management
- Clear recommendations for infrastructure sites.
- Cost modelling under peak/off-peak electricity tariffs

Objective

- Assess EV route feasibility and infrastructure needs for operations at Swindon and Bicester depots. Recommend an optimal cost-effective electrification pathway.

DP World's Route Electrification with Dynamon's ZERO

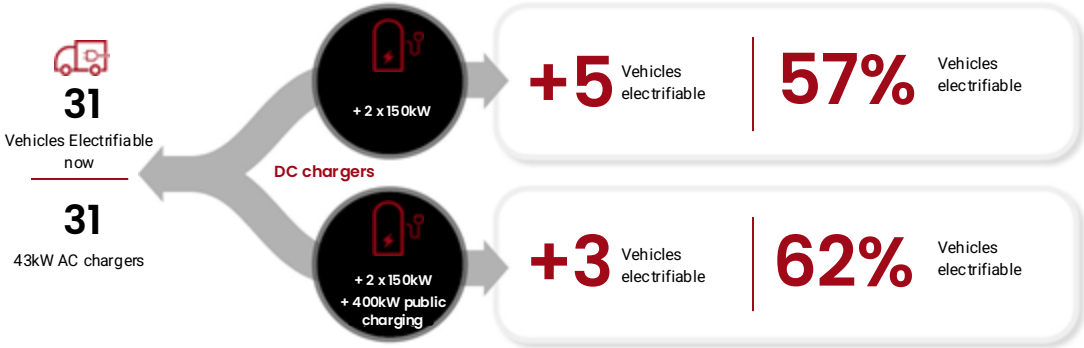


Volvo - Colas Fleet Electrification with Dynamon's Planning Software ZERO

The challenge

As a key Volvo customer, Colas sought to transition its 63-vehicle fleet to zero-emission vehicles (ZEVs) in line with carbon reduction goals. The project addressed challenges such as identifying EV-suitable vehicles and aligning charging infrastructure with operations

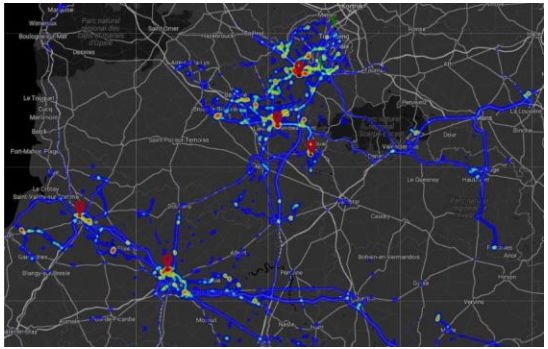
Objective: To provide Volvo with a data-driven approach to support customers decisions in transitioning to electric vehicles, showcasing the benefits of fleet electrification.



The solution

Dynamon's ZERO software provided:

- In-depth fleet analysis using 88 days of telematics data across 63 vehicles and 10 depot locations.
- Depot-specific charging infrastructure design, including phased deployment of AC and DC chargers.



Angus Webb

CEO

angus@dynamon.co.uk

Tel: +44 (0) 7732 773558