



D | DYNAMON

EMPOWERING FLEETS FOR TOMORROW. TODAY.

APSE Energy
22nd October 2024

Data-driven fleet planning tools for cost saving and decarbonisation

 **ZERO**

 **TYRE ANALYTICS**

 **AERO ANALYTICS**

 **PRECISION TRIAL ANALYTICS**

Fleet Decarbonisation & Transition to EV's

Agenda:

- Introduction to Dynamon's Planning Software, ZERO:
Discover how ZERO can help model your fleet's transition to EVs, ensuring optimal vehicle mix and load requirements aligned with grid capacity.
- EV Transition Test:
Learn about this essential assessment tool and its application in evaluating your fleet's readiness for EV integration.
- Driving Fleet-Related Transition & Decarbonisation Plans:
Explore various options for councils.
- Collaboration and Best Practices:



ZERO
by  DYNAMON



What do Local Authorities need to consider ?

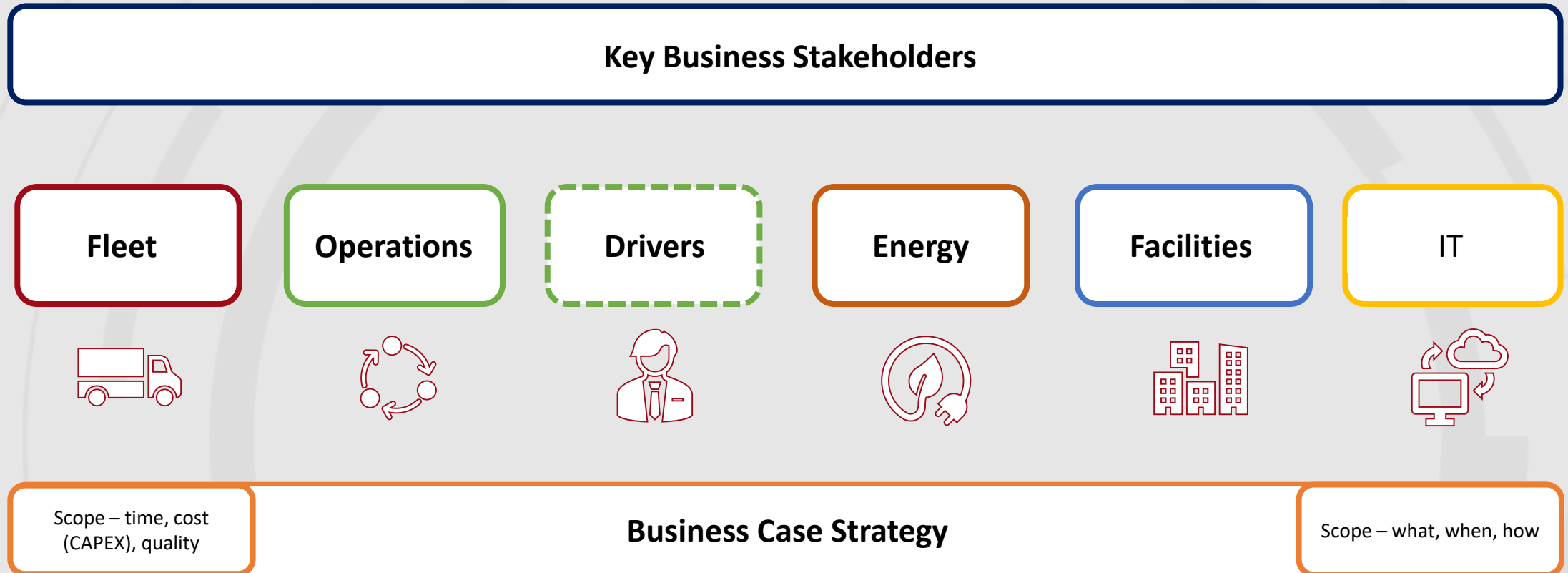
How to deliver a environmentally sustainable, efficient, low cost Transport & Fleet solution

- Size and type of fleets – Usually large with a mix of LCV's, HCV's and Components
- Identify which vehicles that are suitable for replacement with alternative fuelled vehicles (EVs) and by when (future 10-year decarbonisation roadmap)
- Formulate a Procurement strategy recognising the ZEV mandate, operational needs, vehicle class lifecycles and whole life costs.
- Install chargepoints at council depots and review the options for optimum EV charging.
- Address local air pollution by reducing Greenhouse gas emissions and realise energy efficient targets



Programme / Project Structure

Fleet Electrification Programme



Introducing Zero

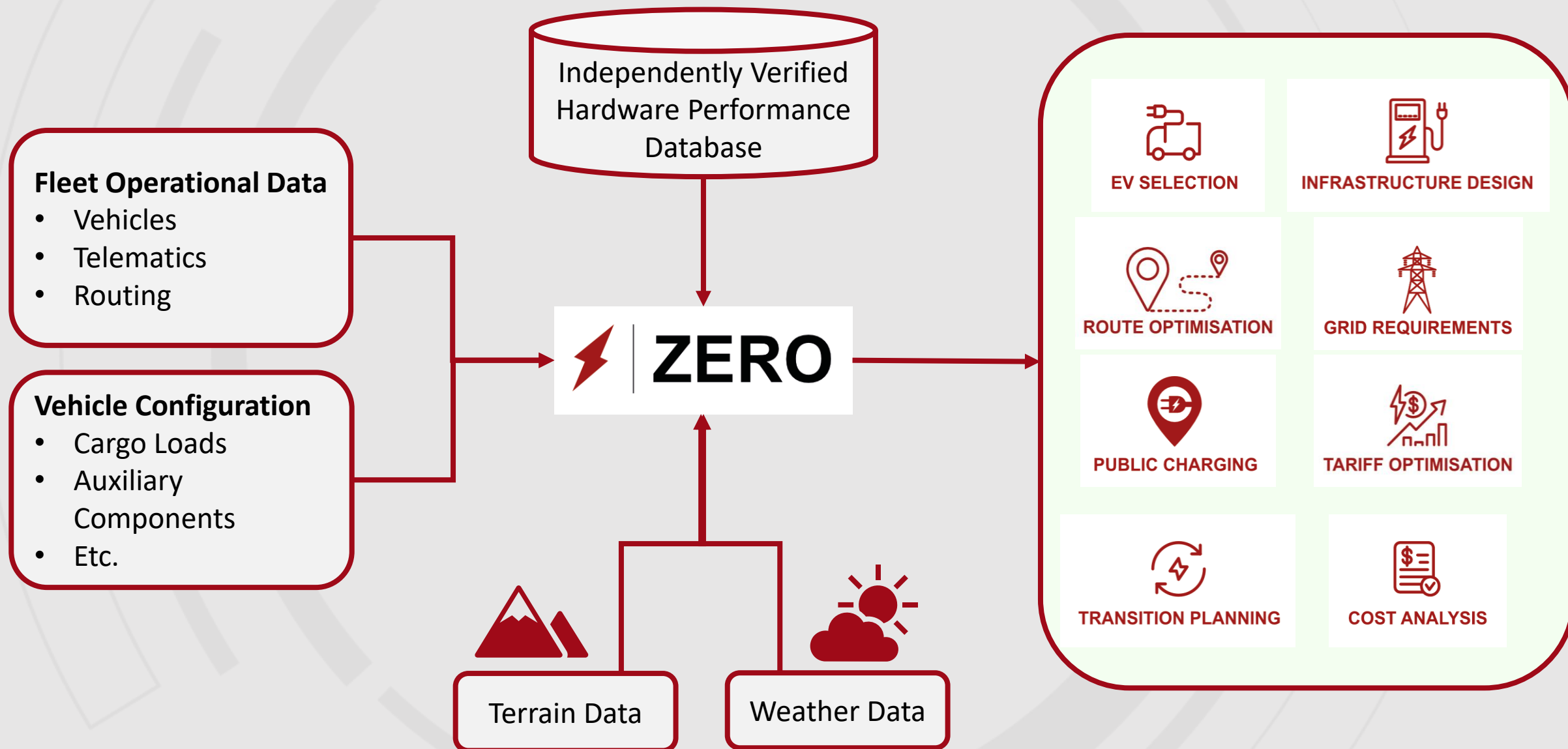
- Forecasts performance of Electric Vehicles and charging infrastructure across all fleet departments and depots.
- Provides high-value insights for strategy, planning, procurement and operations.
- Uses advanced simulation, data analytics technology and our proprietary EV performance database.
- Integrates with real-world telematics to make sense of in-life data, enabling better fleet management decision-making.
- Provided as a Software-as-a-Service tool, scaled through Cloud-based infrastructure.



"The transition to electric is very exciting and full of possibilities. But for too many fleets, it also comes with uncertainty. At Dynamon, we create certainty, helping them get it right, first time."
Dr Angus Webb



Introducing ZERO



What is simulation?

- Mathematical computer programs that imitate real-world systems or processes.
- Allow users to experiment with different variables and scenarios to see how they might affect the outcome.

Flight Simulators

Vehicle Simulators

Race Simulators

Biological
Simulators

Environmental
Simulators

Computer Games



Government Projects



- As a key member of the eFREIGHT 2030 consortium, Dynamon will collaborate with major industry players to support the deployment of 100 electric HGVs and 32 new charging locations.
- ZERO software will be used for modelling and optimising the integration electric HGVs into fleet operations



- Dynamon is leading the ZENFreight consortium, spearheading efforts to accelerate the adoption of electric heavy goods vehicles (HGVs).
- The consortium includes leading truck manufacturers, an academic partner, fleet operators and an energy company, working together to decarbonise HGVs



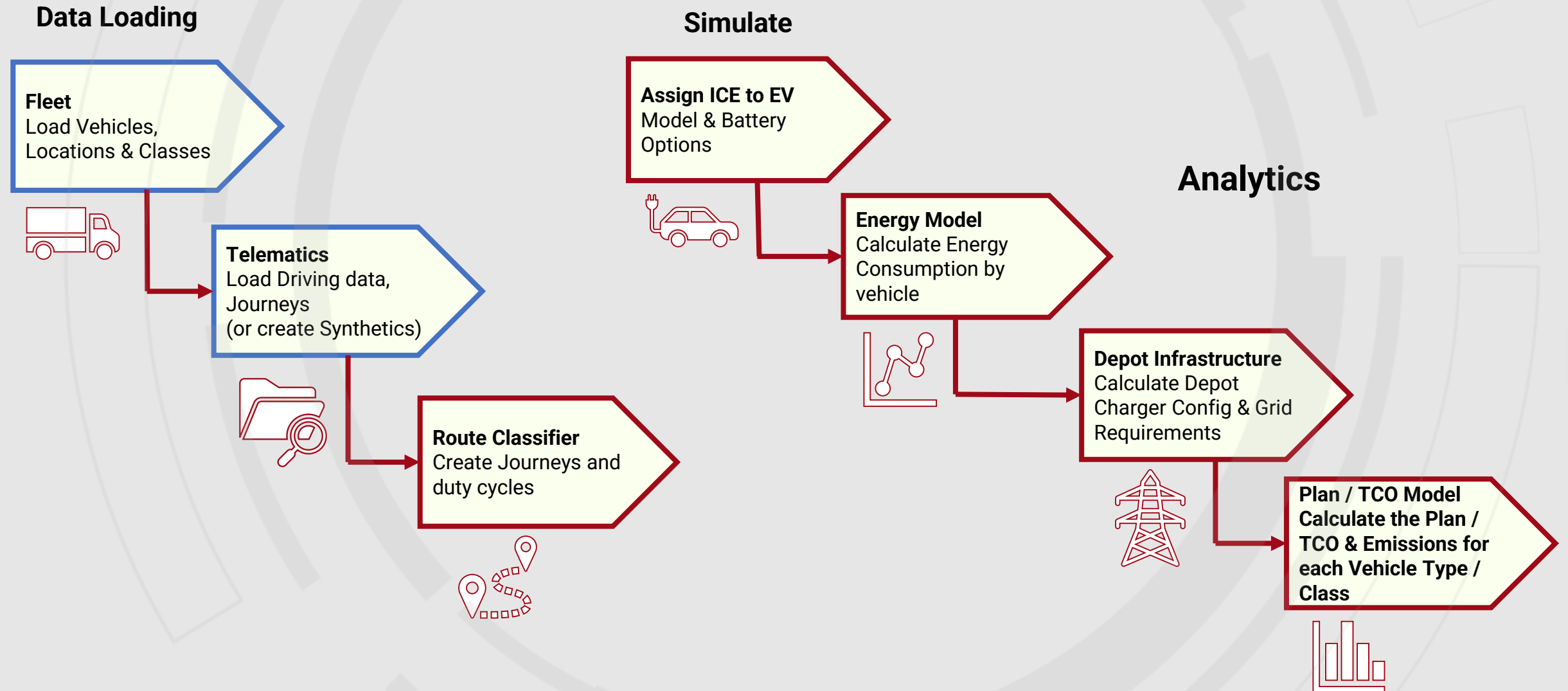
- Accelerating Transport to ZERO emissions
- Working across sectors such as Buses & Coaches, Cars, Commercial Vehicles, Energy Infrastructure, Collaborative Interests
- Connects members with access and insights into government policy and technical developments.



Fleet Electrification Programme

How can we support you ?

Zero - Data Loading, Simulation & Analytics





Delivery Phase – Plan – Time, Cost & Quality

ZERO

Zero Data Analytics

Vehicles

Journeys

Infrastructure

Drivers

Fleet Utilisation,
EV Optimisation
Review

Fleet
Decarbonisation
Plan (10yr)

TCO

Business
Intelligence
Monitors

Ops Journey
Duty Cycle
Plan

Costs, Charging
Infrastructure
Software, Plan

Engagement /
Awareness

Downtime,
Locations,
Shifts

EV
Procurement,
Movements

By Vehicle
Class

Monitors
CAPEX, Opex
Co2, NoX,
Pm's

EV Duty Cycle
Optimisation

Fully
Integrated
Depot, Home
On Road

Training,
Behaviour,
Payments

Scope – time, cost, quality

Business Case / Plan

Scope – what, when, how



Insights and Analysis

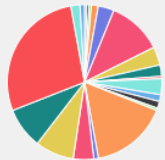
How can Zero help ?



Baselines - Dashboard KPI's "As-Is" & "To-Be" Reporting

Fleet Composition

Fleet Location



- 2-4 Wheeled Powered Light Vehicles (Bike based) (200kg - 1200...
- Cars SUV (1400kg - 3000kg)
- Cars People Carriers (1400kg - 3000kg)
- Cars (off road) (1400kg - 3000kg)
- HCVs (Rigids 2 Axle) (3501kg - 7400kg)
- HCVs (Heavy Panel Van 2 Axle) (3501kg - 7400kg)
- HCVs (Rigids 2 Axle) (7401kg - 7500kg)
- HCVs (Rigids 2 Axle) (7501kg - 12000kg)
- HCVs (Rigids 2 Axle) (12001kg - 16000kg)

▲ 1/3 ▼

Avg. Daily Driving Distance

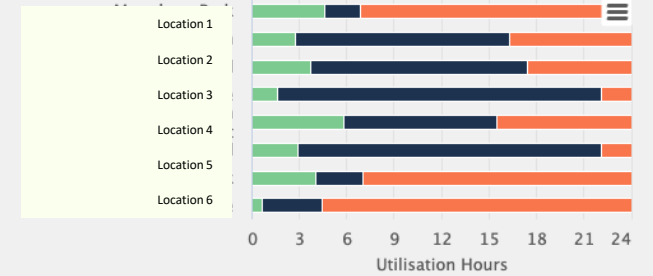
All Vehicles



● Average Distance Driven by Vehicle

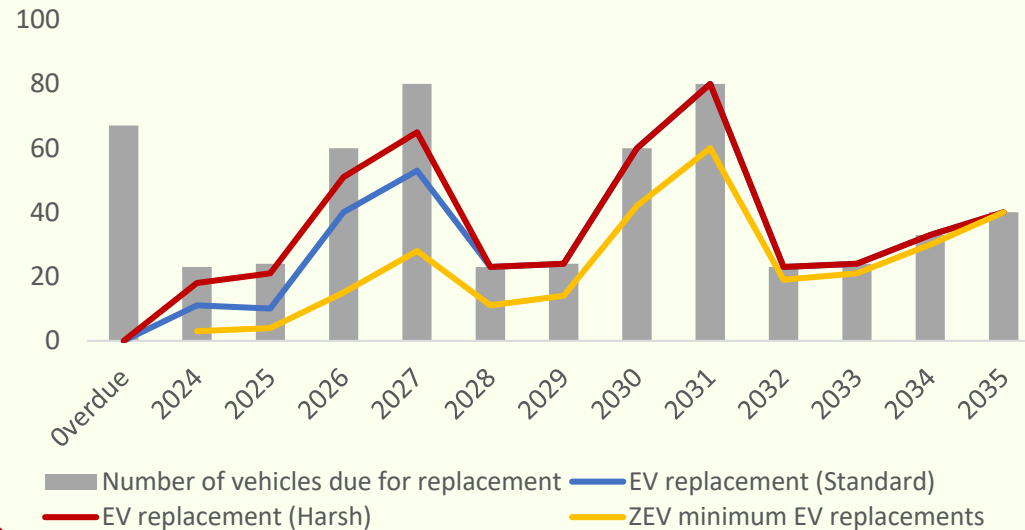
Vehicle Utilisation Report

All Vehicles



● Driving
● Stopped at Known Location
● Stopped at Unknown Location

Yearly Replacements with EV Scenarios



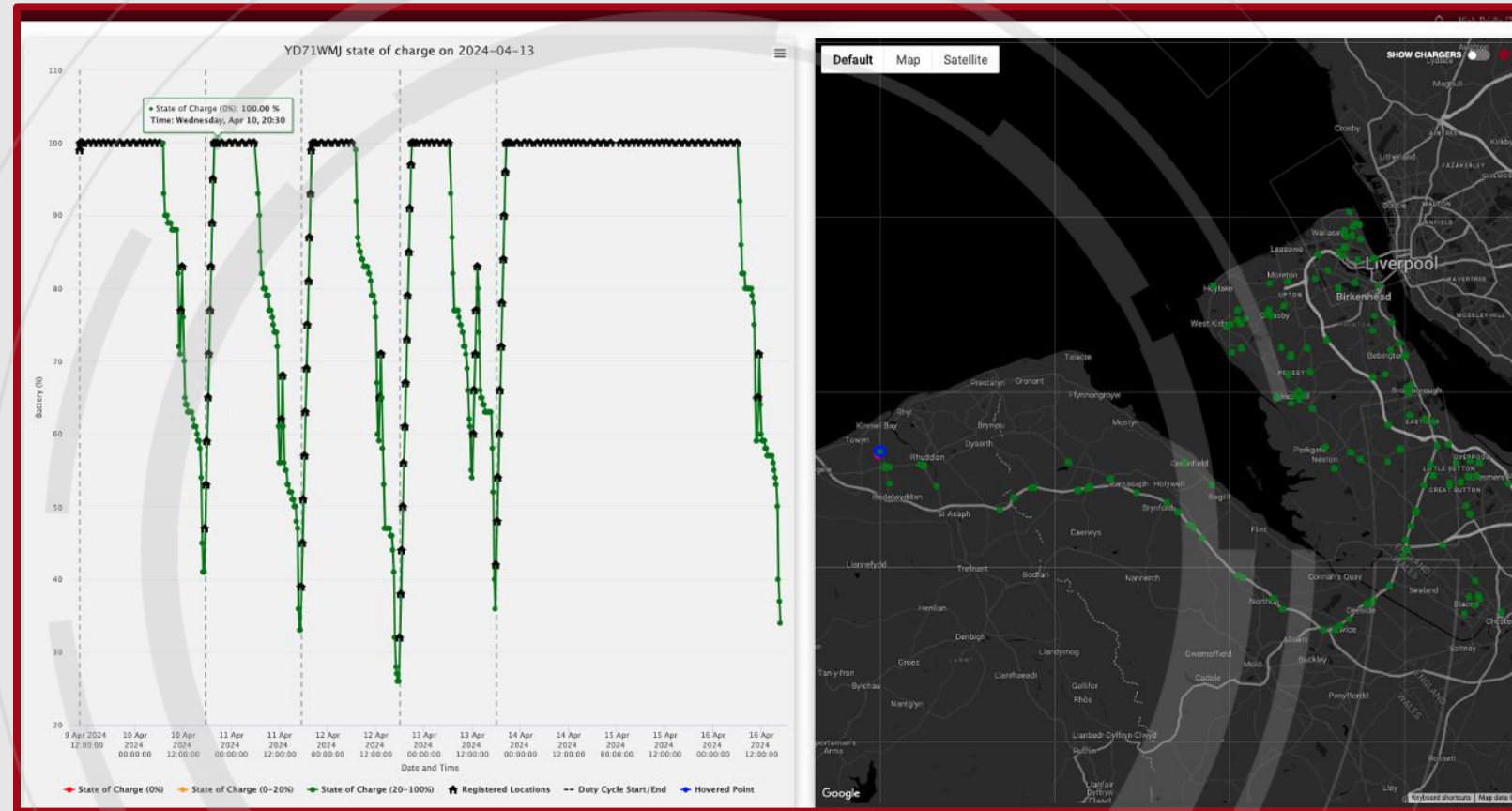


EV Energy Model

Driving data and locations mapped via Telematics

Journeys

Classify routes & create duty cycles with stops and total distance





ICE to EV Selection

Use ZERO to **choose the best EVs for your specific operation**. Make sure EVs can do the work required, but don't have overly sized batteries causing unnecessary costs.

Analyse the performance of any commercial EV in any fleet operation by accessing a validated database of electric vehicles.

ZERO provides **real-world EV performance insights** considering specific vehicle configurations, modifications, fleet operations, driver behaviour, road conditions, weather, vehicle payloads, and auxiliary power consumption (e.g., refrigeration units and tail lifts).

ICE TO EV SETUP

< BACK

Save EV simulation as SAVE

Simulation description

Use Charge Curves No Yes

Advanced configuration No Yes

FILTERS **EXPORT**

Simulation Vehicle Cargo Load Aux Power Home Charging Rate (k... APPLY

<input type="checkbox"/>	Registration	Location	Make/Model	Vehicle Class ↑	Simulation Vehicle	Cargo Load (%)	Auxiliary Power (kW)
<input type="checkbox"/>	GK71TLV	Snodland CSC	Iveco - Daily Luton Box - with tail...	HCVs (Rigids 2 Axle) (3501kg - 7...	(Custom) Iveco eDaily 72...	75	High (1.68 kW)
<input type="checkbox"/>	GK		Iveco - Daily Luton Box - with tail...	HCVs (Rigids 2 Axle) (3501kg - 7...	(Custom) Iveco eDaily 72...	75	High (1.68 kW)
<input type="checkbox"/>	GK71TNE	Birmingham CSC	Iveco - Daily Luton Box - with tail...	HCVs (Rigids 2 Axle) (3501kg - 7...	(Custom) Iveco eDaily 72...	75	High (1.68 kW)
<input type="checkbox"/>	GK71TNZ	Tilbury CSC	Iveco - Daily Luton Box - with tail...	HCVs (Rigids 2 Axle) (3501kg - 7...	(Custom) Iveco eDaily 72...	75	High (1.68 kW)
<input type="checkbox"/>	GK71TNU	Snodland CSC	Iveco - Daily Luton Box - with tail...	HCVs (Rigids 2 Axle) (3501kg - 7...	(Custom) Iveco eDaily 72...	75	High (1.68 kW)
<input type="checkbox"/>	GK71TXD	Birmingham CSC	Iveco - Daily Luton Box - with tail...	HCVs (Rigids 2 Axle) (3501kg - 7...	(Custom) Iveco eDaily 72...	75	High (1.68 kW)
<input type="checkbox"/>	GK71TXH	Birmingham CSC	Iveco - Daily Luton Box - with tail...	HCVs (Rigids 2 Axle) (3501kg - 7...	(Custom) Iveco eDaily 72...	75	High (1.68 kW)
<input type="checkbox"/>	GK71TYD	Bolton CSC	Iveco - Daily Luton Box - with tail...	HCVs (Rigids 2 Axle) (3501kg - 7...	(Custom) Iveco eDaily 72...	75	High (1.68 kW)



Simulation of Different Battery and Charging scenarios

Understand required battery and charger combinations

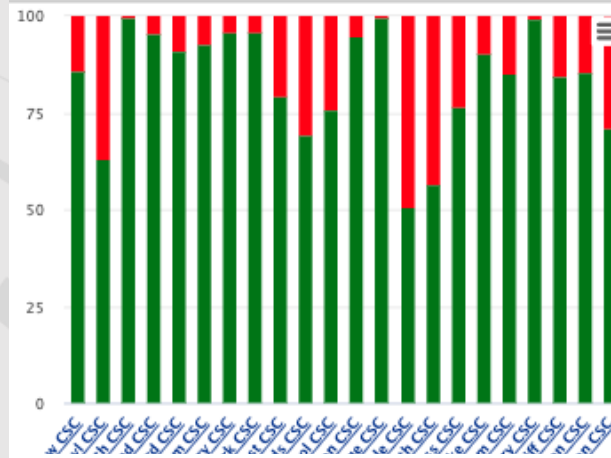
See which vehicles and routes can be electrified today

Future planning for transition as battery and charging technology improves

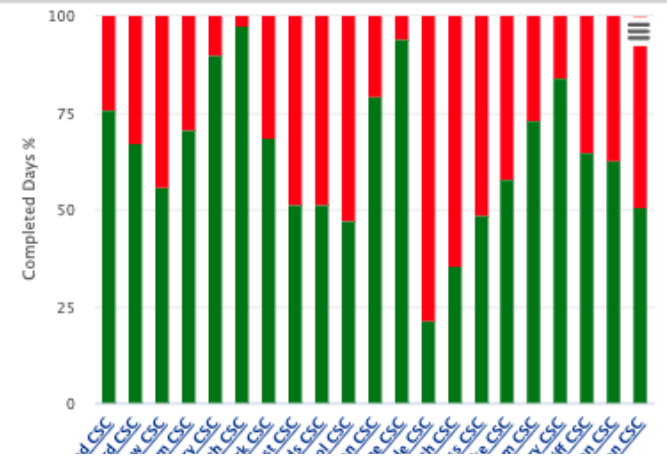
Dowsizing fleet options scenarios



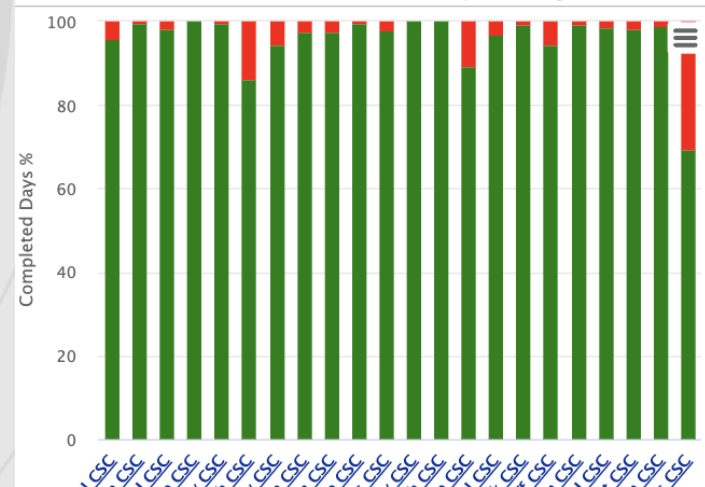
Iveco eDaily 4
4.2T 111kWh, 7.2T 140kWh 4.2t set with 100% payload
7.2t set with 75% payload - aux power medium



Iveco eDaily 5
4.2T 111kWh, 7.2T 111kWh 4.2t set with 100% payload
7.2t set with 75% payload - aux power medium

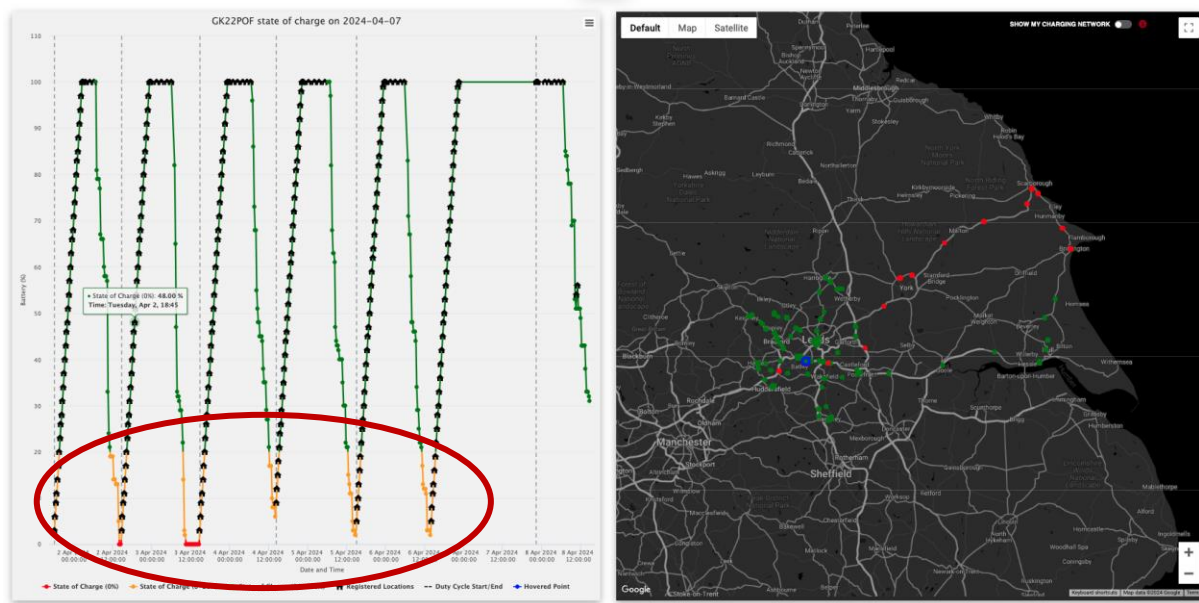


Iveco eDaily 7 downsize (270824 update)
All Curry Fleet LCVs and HCVs are simulated by a Iveco
eDaily 4.2T 111kWh, (down sizing opportunities) Cargo
load set to 100% - aux power High

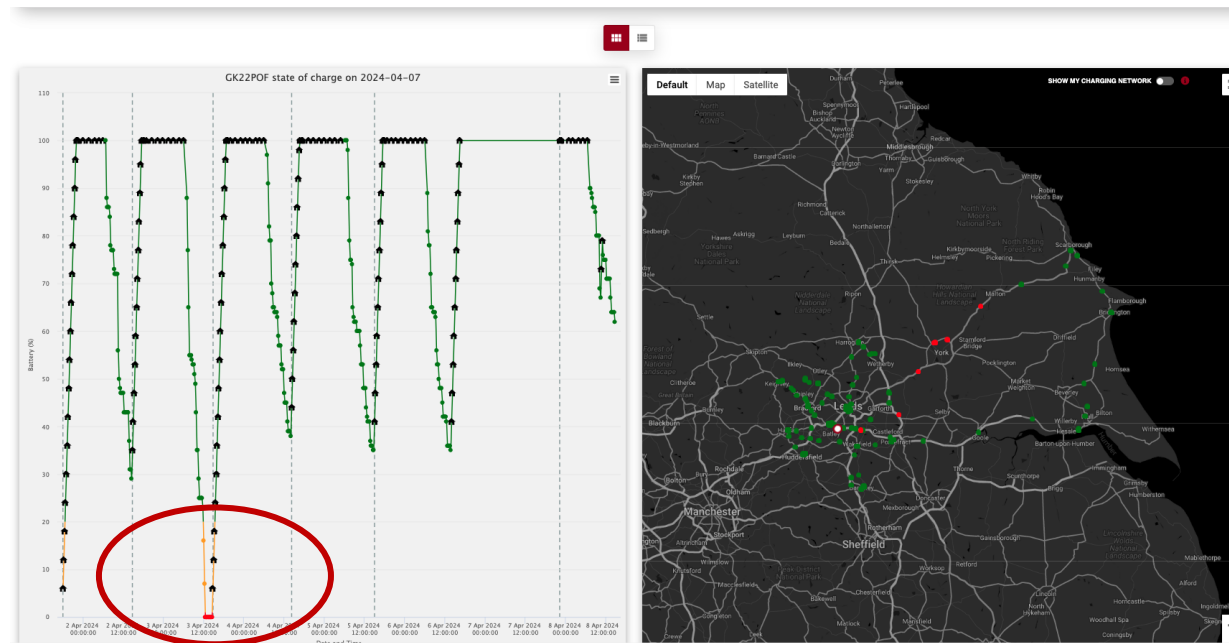


Duty Cycle Analysis

- Average duty cycle distance - 130 miles
- Iveco eDaily 7,2t 74kW battery – Duty cycle incomplete,
- Iveco eDaily 7,2t 111kW battery – Duty cycle almost complete, bigger battery
- Depot charge Power not an issue



7.2t box van 74kW Battery

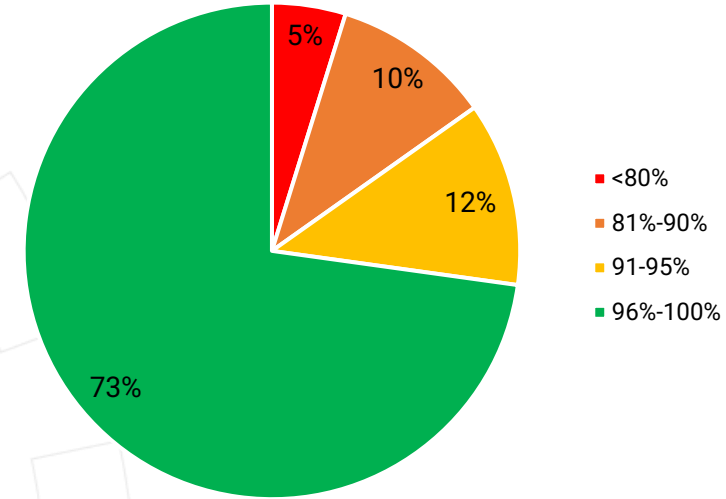


7.2t box van 111kW Battery

Custom Reports

- ✓ All data and outputs in Zero can be downloaded and viewed / analysed in Excel
- ✓ Allows further interrogation of data
- ✓ Ability to design and create extra graphs and tables

Percentage journey completions



Vehicle Type / Journey Completion %	Average Mean Daily Driving Distance (mi)	Average Mean Duty Cycle Driving Distance (mi)	ZERO Estimated Range (mi)	Manufacturer Provided Range (mi)
Heavy Panel Van (LCV)	55	72	237	221
<80%	91	114	179	221
81%-90%	90	105	205	221
91-95%	85	115	198	221
96%-100%	46	61	248	221
Car	38	49	196	324
<80%	75	146	201	270
81%-90%	57	71	140	333
91-95%	42	52	179	331
96%-100%	33	41	211	323
Medium Panel Van	34	45	164	205
<80%	82	122	118	205
81%-90%	61	78	156	205
91-95%	37	48	145	205
96%-100%	24	32	172	205
Grand Total	43	55	199	249



Custom Reports - Depot Simulation results by Vehicle Class

22 locations 500 Fleet Vehicles (internal)	Total vehicles	No of vehicles 3.5t	No. of vehicles 7.2t	Av Daily mileage driven 3.5t	Av Daily mileage driven 7.2t	Charger Power	Iveco eDaily 1 3.5T 37kWh, 7.2T 74kWh	Iveco eDaily 2 3.5T 74kWh, 7.2T 111kWh	Iveco eDaily 3 4.2T 111kWh, 7.2T 111kWh	Iveco eDaily 3 Depot Transition Challenge
Location 1										9.4
All vehicles	22					7kwh	54.02%	85.57%	87.54%	
Heavy Panel Van(LCV)		2		111			13.64%	66.67%	93.94%	
Heavy Vehicle Small (HCV)			20		93		56.24%	86.61%	87.19%	
Bolton (all vehicles)	22					22kWh	54.73%	87.54%	88.49%	
Bolton (Heavy Panel Van(LCV)		2		111			24.24%	87.88%	96.97%	
Bolton (Heavy Vehicle Small (HCV)			20		93		56.41%	87.52%	88.02%	
Bolton (all vehicles)	22					75kWh	55.21%	87.85%	88.56%	
Bolton (Heavy Panel Van(LCV)		2		111			27.27%	93.24%	98.48%	
Bolton (Heavy Vehicle Small (HCV)			20		93		56.74%	87.52%	88.02%	



Customer Reports - Depot Simulation results by Vehicle Class

Vehicle Simulation –

- Vehicle Class, Model & Battery size
- Charger Power

	Spec 1 = Iveco eDaily 3.5t = 37kW battery & 7.2t= 74kWh battery			Spec 2 = Iveco eDaily 3.5t = 74kW battery & 7.2t= 111kWh battery			Spec 3 = Iveco eDaily 3.5t =111kW battery & 7.2t= 111kWh battery			Grand Total
	Iveco eDaily 1 - 22kw	Iveco eDaily 1 - 7 kW	Iveco eDaily 1 - 75kw	Iveco eDaily 2 - 22kw	Iveco eDaily 2 - 7 kW	Iveco eDaily 2 - 75kw	Iveco eDaily 3 - 22kw	Iveco eDaily 3 - 7 kW	Iveco eDaily 3 - 75kw	
Vehicle 1	55.68	54.55	55.68	92.05	92.05	92.05	92.05	92.05	92.05	79.80
Vehicle 2	50.00	50.00	50.00	91.67	88.89	91.67	91.67	88.89	91.67	77.16
Vehicle 3	64.52	64.52	64.52	91.94	91.94	91.94	93.55	93.55	93.55	83.33
Vehicle 4	67.47	67.47	67.47	93.98	93.98	93.98	95.18	95.18	95.18	85.54
Vehicle 5	64.77	63.64	64.77	96.59	95.46	96.59	96.59	95.46	96.59	85.61
Vehicle 6	63.51	63.51	63.51	90.54	90.54	90.54	91.89	91.89	91.89	81.98
Vehicle 7	37.50	37.50	38.75	77.50	77.50	77.50	77.50	77.50	77.50	64.31
Vehicle 8	42.05	42.05	42.05	71.59	71.59	71.59	71.59	71.59	71.59	61.74
Vehicle 9	71.95	71.95	73.17	90.24	89.02	90.24	92.68	91.46	92.68	84.82
Vehicle 10	76.09	76.09	76.09	95.65	95.65	95.65	97.83	97.83	97.83	89.86
Vehicle 11	46.75	46.75	48.05	81.82	77.92	81.82	81.82	79.22	81.82	69.55
Vehicle 12	61.18	61.18	62.35	92.94	90.59	92.94	92.94	90.59	92.94	81.96
Vehicle 13	51.92	51.92	51.92	92.31	92.31	92.31	92.31	92.31	92.31	78.85
Vehicle 14	50.00	50.00	50.00	68.18	68.18	68.18	68.18	68.18	68.18	62.12
Vehicle 15	57.45	57.45	57.45	91.49	90.43	91.49	91.49	90.43	91.49	79.91
Vehicle 16	47.13	47.13	47.13	79.31	78.16	79.31	79.31	78.16	79.31	68.33
Vehicle 17	24.24	13.64	27.27	87.88	66.67	93.94	96.97	93.94	98.49	67.00
Vehicle 18	54.84	54.08	55.30	87.39	85.34	87.75	88.44	87.54	88.53	76.58



Infrastructure Design



Infrastructure Design – Depot Charging

INFRASTRUCTURE DESIGN TOOL

Select: Location EV Simulation: Iveco eDaily 3 Saved Configurations: Select SAVE CONFIGURATION

Location Overview

Vehicles to Charge i

**SELECTED
VEHICLES
16 / 16**

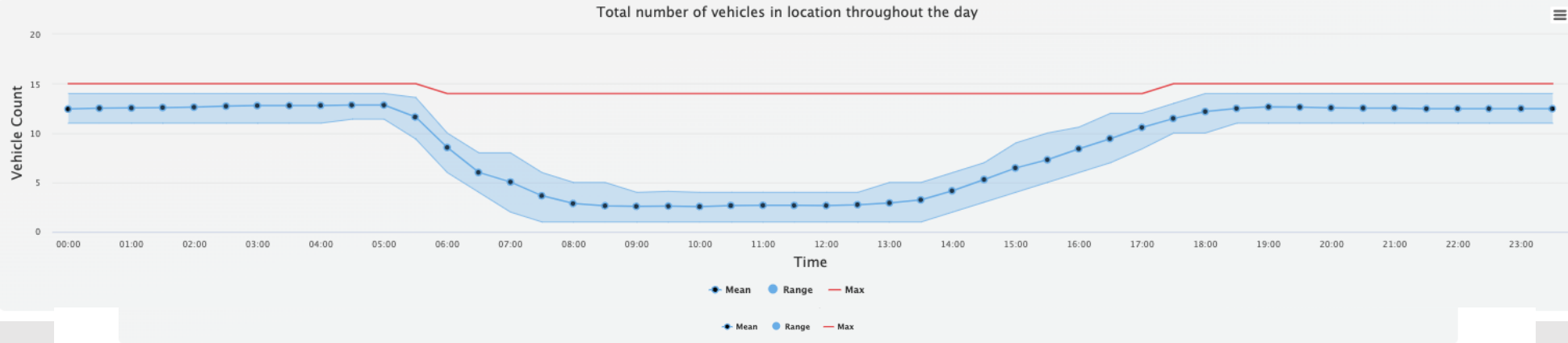
Vehicle Battery Usage i

**HEAVY
USAGE
104 kWh**

Location Energy Consumption i

**HEAVY
USAGE
1,663 kWh**

Total number of vehicles in location throughout the day



Location Configuration

kW kVA

Site Fuse Limit

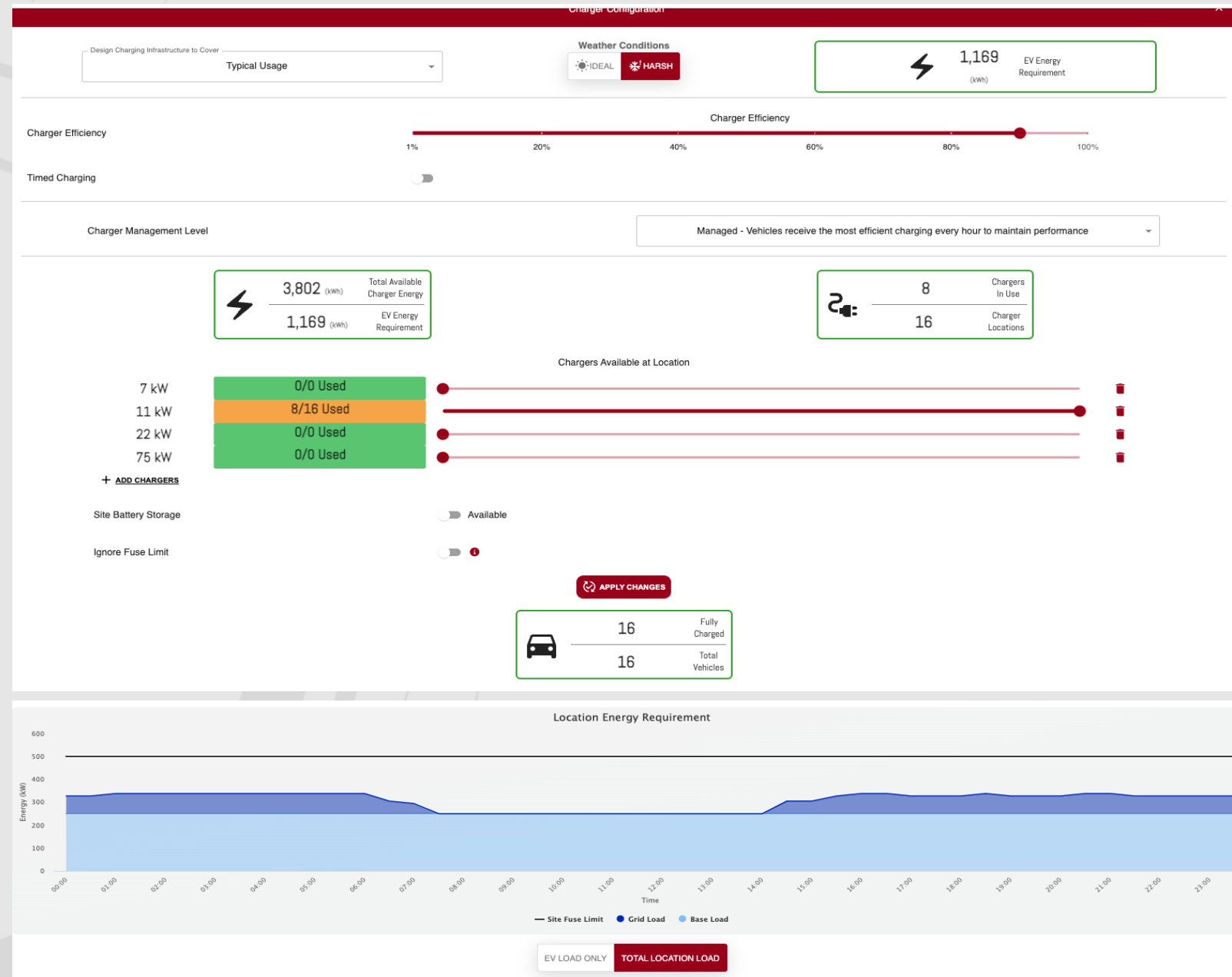
Varying Base Load

48

Infrastructure Design – Operational Assessment

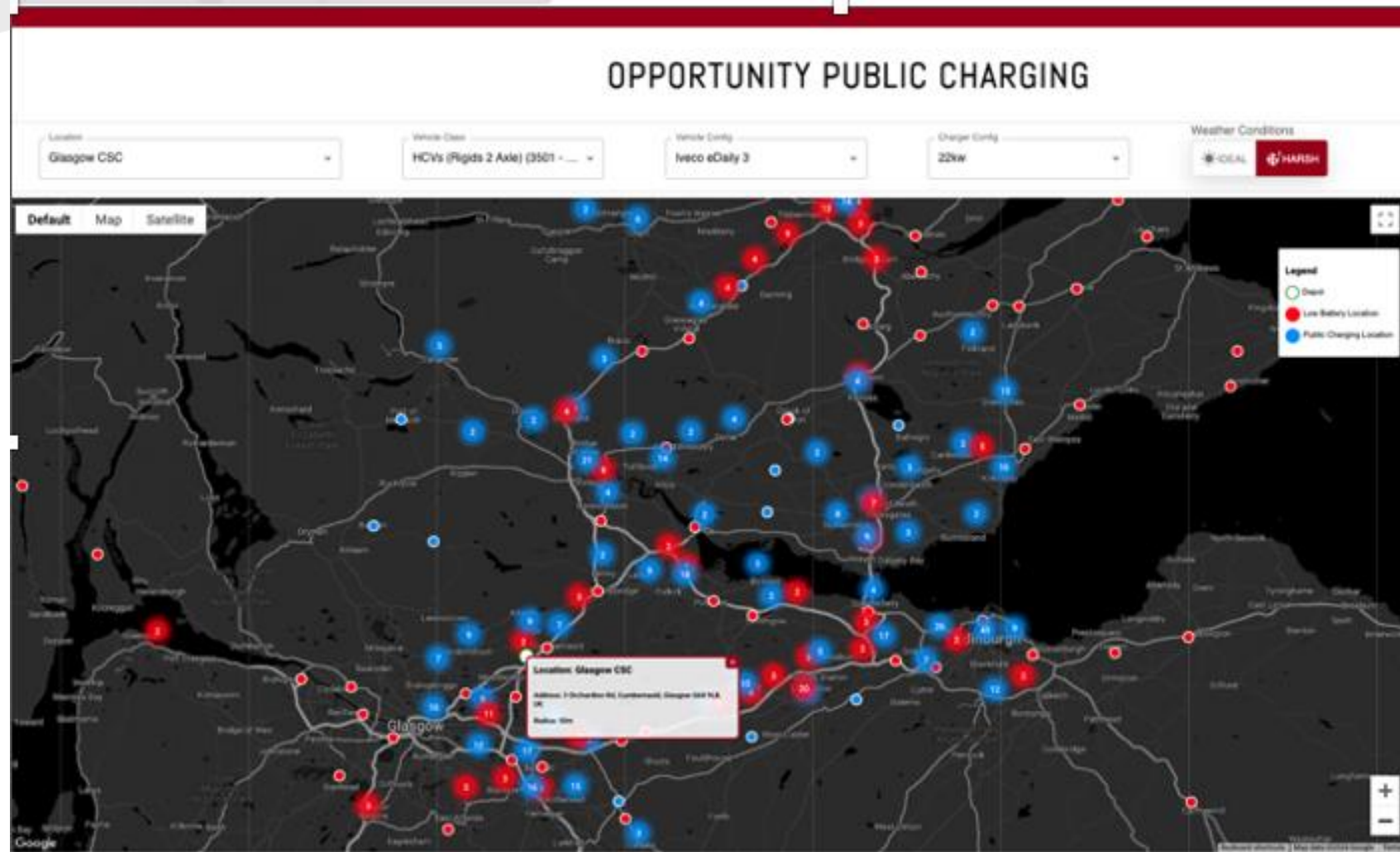


- ✓ Design infrastructure to support charging requirements
- ✓ Analyse projected electrical load throughout the day
- ✓ Find the optimum tariff for your unique charging profile



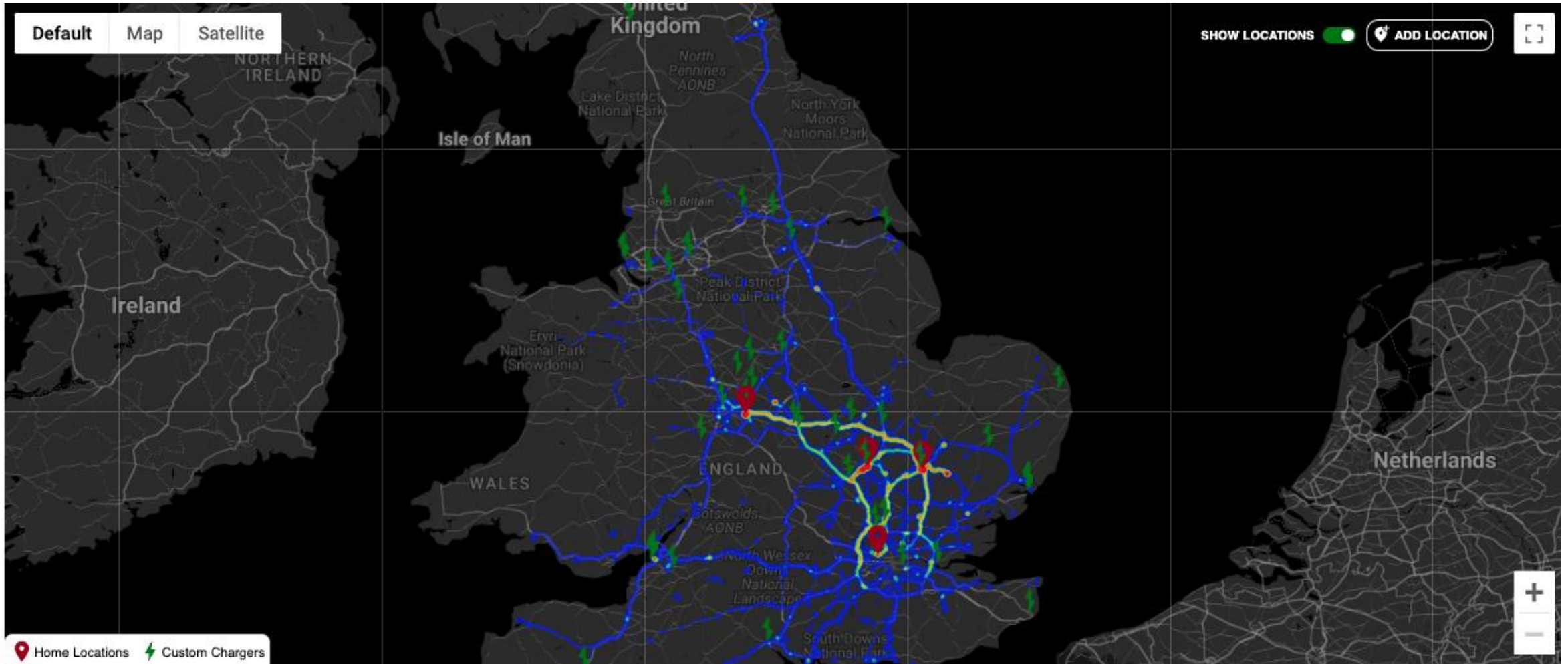
Opportunity Public Charging

Detailed analysis of nearby public charging points for when electric vehicles require top-up and identify hot spots where future infrastructure could be deployed.





Heat Map Analysis (eFREIGHT 2030)





Fleet Transition Decarbonisation Planning – inc. TCO



Fleet Transition / Decarbonisation Plan Strategy

Fleet related transition & decarbonisation plans options

- Baseline ICE replacement plan 10 years (*Do nothing*)
 - What does your current ICE replacement plan look like ?
 - Peaks and troughs based on lifecycles and CAPEX shortages ?
 - CAPEX & CO₂ impacts by year
- ZEV Mandate Overlay (Car & Commercial Vehicles)
 - What does your baseline replacement plan (do nothing) look like with a ZEV mandate overlay to 2030 ?
 - CAPEX & CO₂ impacts by year
- ZERO transitions option overlayed on Decarbonisation plan
 - Offer the board 3 decarbonisation plans as part of the programme
 - Take into account overdue Asset impacts
 - Plan for stranded assets
 - Depot charging insights, chargers required with power impacts
 - CAPEX & CO₂ impacts by year

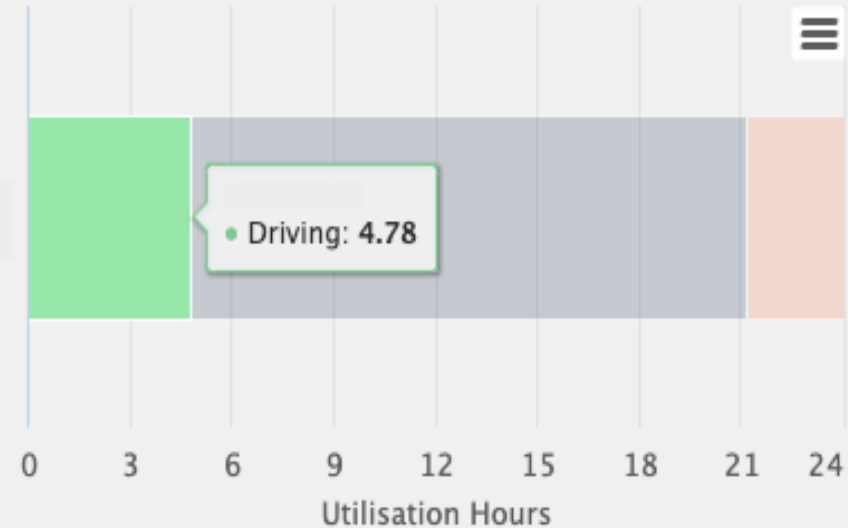


Vehicle Utilisation – Operational Baseline

- ✓ Identify asset utilisation percentage at each location
- ✓ Visualisation of low utilisation assets for review
- ✓ Optimise the number of assets required for operational performance

Vehicle Utilisation Report

HCVs (RCV 3 Axle) (18001 - 27000 kg) ▾

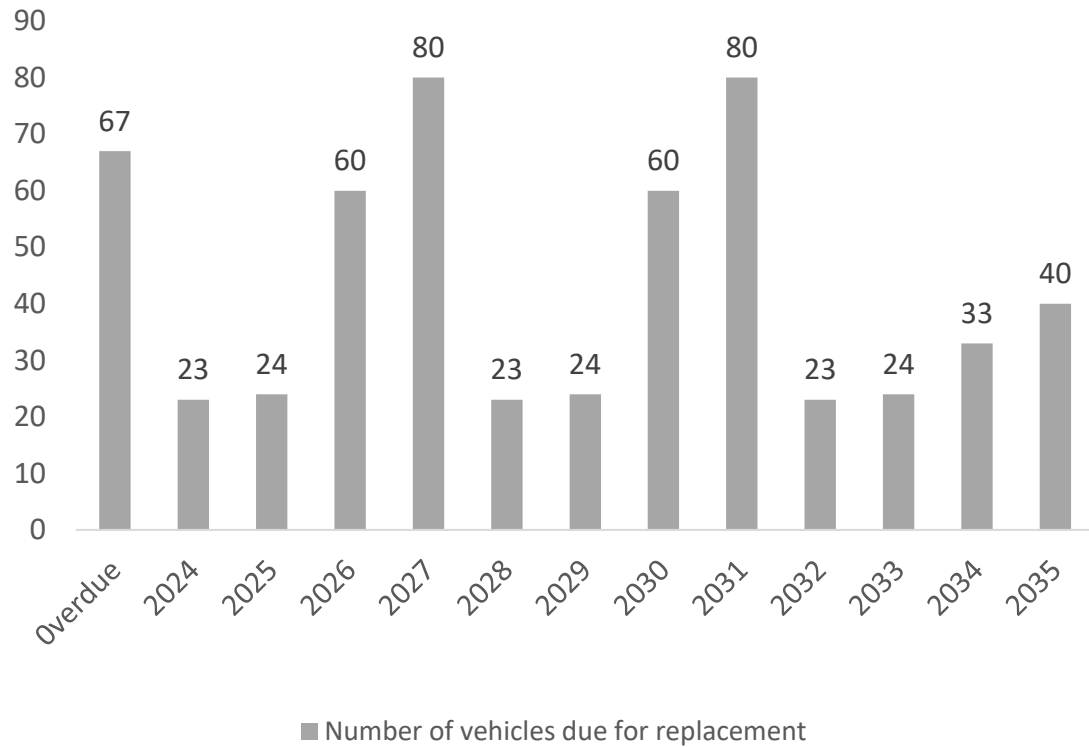


- Driving
- Stopped at Known Location
- Stopped at Unknown Location

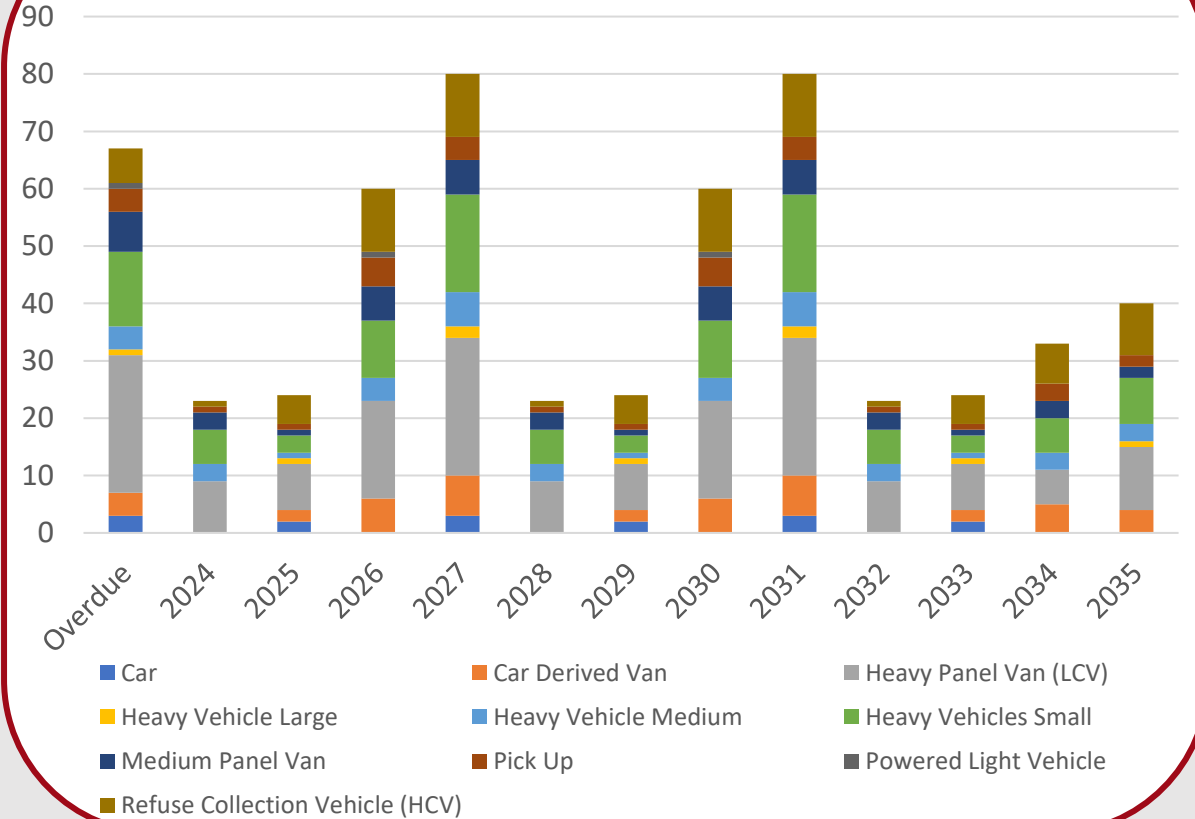


Fleet Transition / Decarbonisation Plan Strategy

Yearly Replacements



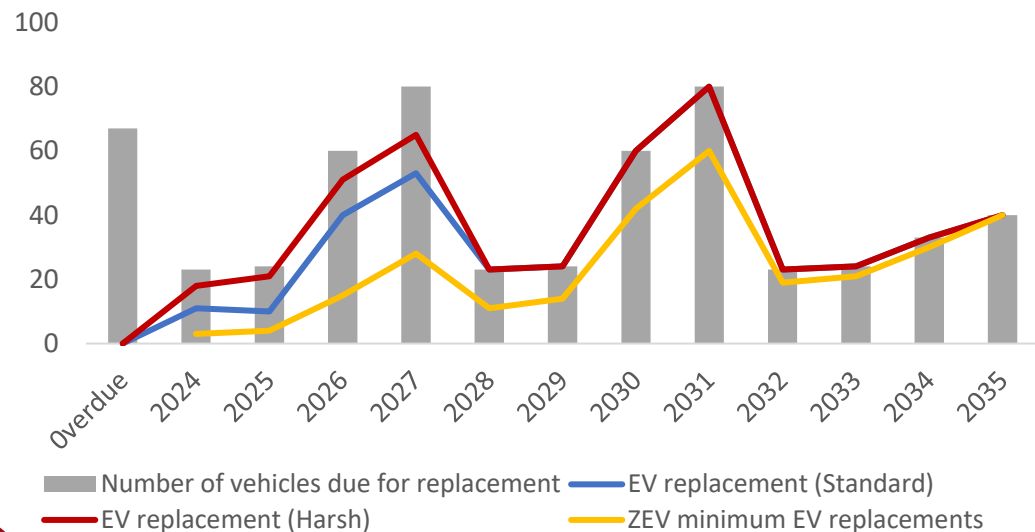
Yearly Replacements by Vehicle Class



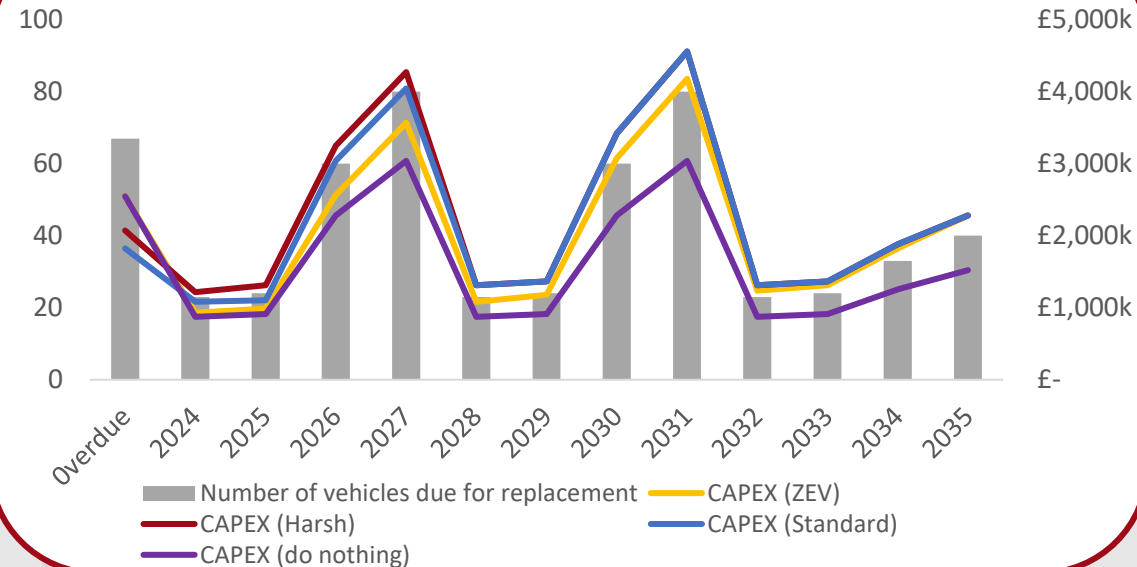


Fleet Replacement Planning Roadmap

Yearly Replacements with EV Scenarios



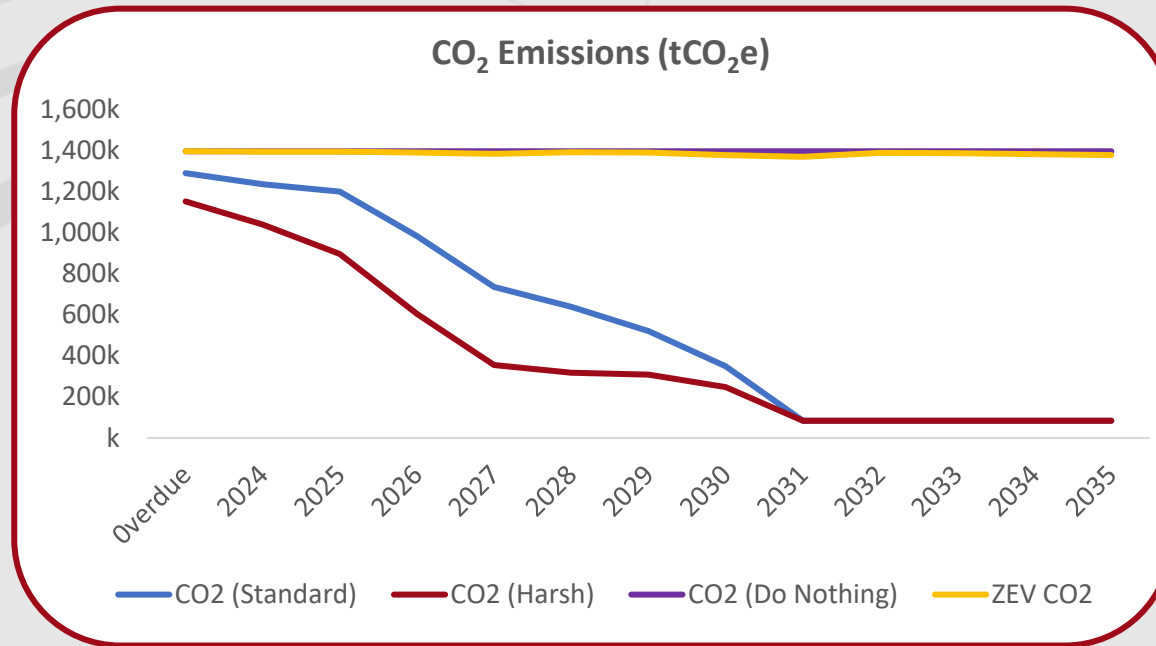
Yearly Replacements with CAPEX



CAPEX Scenario	Overdue	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Replacements	67	23	24	60	80	23	24	60	80	23	24	33	40	
Standard	£1,824,000	£1,083,000	£1,102,000	£3,040,000	£4,047,000	£1,311,000	£1,368,000	£3,420,000	£4,560,000	£1,311,000	£1,368,000	£1,881,000	£2,280,000	£28,595,000
Harsh	£2,071,000	£1,216,000	£1,311,000	£3,249,000	£4,275,000	£1,311,000	£1,368,000	£3,420,000	£4,560,000	£1,311,000	£1,368,000	£1,881,000	£2,280,000	£29,621,000
Do nothing	£2,546,000	£874,000	£912,000	£2,280,000	£3,040,000	£874,000	£912,000	£2,280,000	£3,040,000	£874,000	£912,000	£1,254,000	£1,520,000	£21,318,000
ZEV	£2,546,000	£931,000	£988,000	£2,565,000	£3,572,000	£1,083,000	£1,178,000	£3,078,000	£4,180,000	£1,235,000	£1,311,000	£1,824,000	£2,280,000	£26,771,000



Fleet Replacement Planning



CO ₂ Scenario	Overdue	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	Total
Replacements	67	23	24	60	80	23	24	60	80	23	24	33	40	
Standard	1,289,763	1,236,172	1,200,317	983,271	735,203	639,432	521,289	349,588	84,154	84,154	84,154	84,154	84,154	7,375,805
Harsh	1,152,135	1,038,898	895,559	605,336	354,876	318,752	308,094	247,570	84,154	84,154	84,154	84,154	84,154	5,341,993
Do nothing	1,396,421	1,396,421	1,396,421	1,396,421	1,396,421	1,396,421	1,396,421	1,396,421	1,396,421	1,396,421	1,396,421	1,396,421	1,396,421	18,153,476
ZEV	1,396,421	1,395,071	1,394,621	1,389,671	1,383,821	1,391,471	1,390,121	1,377,520	1,369,420	1,387,871	1,386,971	1,382,921	1,378,420	18,024,320



Fleet Decarbonisation Plan - CAPEX Cost Baseline by Vehicle & Type

✓ Identify asset replacement dates by year

✓ Visualisation of assets for review

✓ Capex reflects new Alternative Fuelled vehicle costs

Vehicle Type / Year	Overdue	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035
Car	£114,000	£0	£76,000	£0	£171,000	£0	£114,000	£0	£171,000	£0	£114,000	£0	£0
Car Derived Van	£146,500	£0	£114,000	£227,875	£260,375	£0	£48,750	£146,250	£170,625	£0	£48,750	£121,875	£97,500
Heavy Panel Van (LCV)	£1,136,112	£484,014	£427,014	£756,245	£1,067,315	£378,189	£336,168	£729,336	£1,023,483	£378,189	£336,168	£267,105	£477,210
Heavy Vehicle Large	£57,473	£0	£57,473	£0	£172,473	£0	£115,000	£0	£230,000	£0	£115,000	£0	£115,000
Heavy Vehicle Medium	£206,786	£124,484	£79,333	£283,150	£527,146	£229,968	£158,666	£460,816	£729,054	£229,968	£158,666	£374,332	£403,816
Heavy Vehicles Small	£562,146	£273,210	£129,726	£646,662	£1,151,808	£518,904	£259,452	£864,840	£1,470,228	£518,904	£259,452	£518,904	£691,872
Medium Panel Van	£347,882	£119,882	£57,000	£197,469	£47,056	£26,469	£8,823	£52,938	£52,938	£26,469	£8,823	£26,469	£17,646
Pick Up	£119,882	£38,000	£38,000	£228,000	£160,823	£57,000	£57,000	£285,000	£131,646	£57,000	£57,000	£171,000	£65,823
Powered Light Vehicle	£38,000	£0	£0	£57,000	£0	£0	£0	£57,000	£0	£0	£0	£0	£0
Refuse Collection Vehicle (HCV)	£900,000	£150,000	£750,000	£2,850,000	£2,175,000	£450,000	£2,250,000	£4,950,000	£4,750,000	£450,000	£2,250,000	£3,150,000	£3,850,000
Total	£3,514,781	£1,189,590	£1,652,546	£5,246,401	£5,561,996	£1,660,530	£3,233,859	£7,546,180	£8,557,974	£1,660,530	£3,233,859	£4,629,685	£5,718,867



Fleet Decarbonisation Plan – overdue assets

- ✓ Identify overdue asset replacements
- ✓ Visualisation of 'low hanging fruit'
- ✓ Replace 'easy to transition' vehicles as a priority

Vehicle Id	Ice Vehicle Class	Cheaper as EV	EoE Score	Replace with EV?
246	Heavy Vehicles Small	FALSE	1	No
254	Medium Panel Van	TRUE	1	Yes
255	Heavy Vehicles Small	FALSE	1	No
259	Medium Panel Van	TRUE	1	Yes
266	Heavy Panel Van (LCV)	TRUE	1	Yes
276	Heavy Vehicles Small	FALSE	1	No
284	Heavy Panel Van (LCV)	TRUE	1	Yes
285	Car	FALSE	1	No
294	Heavy Vehicles Small	FALSE	1	No
295	Pick Up	TRUE	2	No
298	Heavy Panel Van (LCV)	TRUE	2	No
305	Heavy Vehicles Small	FALSE	1	No
307	Pick Up	FALSE	1	No
308	Heavy Panel Van (LCV)	TRUE	1	Yes
311	Heavy Panel Van (LCV)	TRUE	1	Yes
313	Heavy Vehicles Small	FALSE	1	No



Fleet Financial Planning Tool

TCO Cost Analysis

Total Cost of Ownership (TCO)

(Rate Cards ICE vs BEV)

Could use APSE Categories

FINANCIAL PLANNING TOOL

ICE Rate Card

Rate Card Name: Save

[Load saved ICE rate card](#)

General Details

Vehicle Replacement Age km

Vehicle Replacement Odometer yrs

Capital Costs

Purchase Price £

Sale Price £

Operational Costs

Insurance £/yr

SMR £/yr

VED £/yr

PPM Costs (Eg. Tyres) £/km

Emission Zone Fees £/yr

Fuel Price £/L

Fuel Efficiency mpg

EV Rate Card

Rate Card Name: Save

[Load saved EV rate card](#)

General Details

Vehicle Replacement Age km

Vehicle Replacement Odometer yrs

Capital Costs

Purchase Price £

Sale Price £

Operational Costs

Insurance £/yr

SMR £/yr

VED £/yr

PPM Costs (Eg. Tyres) £/km

EV Tax Rebate £/yr

On site Electricity Tariff £/kWh

Public Electricity Tariff £/kWh

EV Rollout Plan

Threshold

Replace ICE with EV if cost difference is less than X%

% 10

Calculate

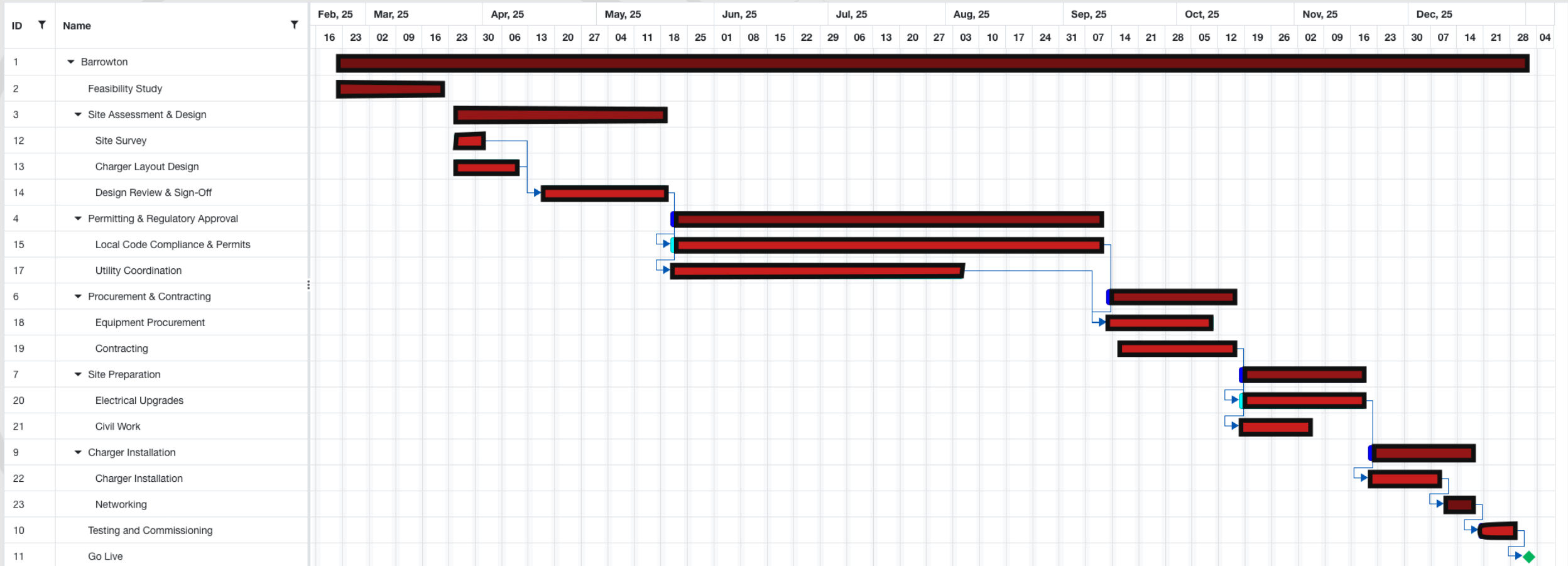
Note to Dev: I have just modelled the error version on this button to show what would happen if there is missing vehicle information



Infrastructure Roll out Strategy

Plan & TCO Considerations

Infrastructure Roll Out Strategy





Depot Infrastructure Capex & TCO

DNO Connection

DNO	Northern Powergrid
Site Capacity Requirement Upgrade	73 kW
Upgrade Size Category	Medium
Low Estimate	£16,000
High Estimate	£110,000

LV Infrastructure

Low Estimate	£20,000
High Estimate	£35,000

Charge Point Infrastructure

Project Management and Planning Overheads	£2,170
Charge Point Cost	£12,436
Civil Costs and Installation	£3,769
Electric Materials Costs	£7,860
Cost of Set-up, Transport and Plant	£3,775
Testing and Commissioning	£472
Total	£26,482

Total Cost Estimation

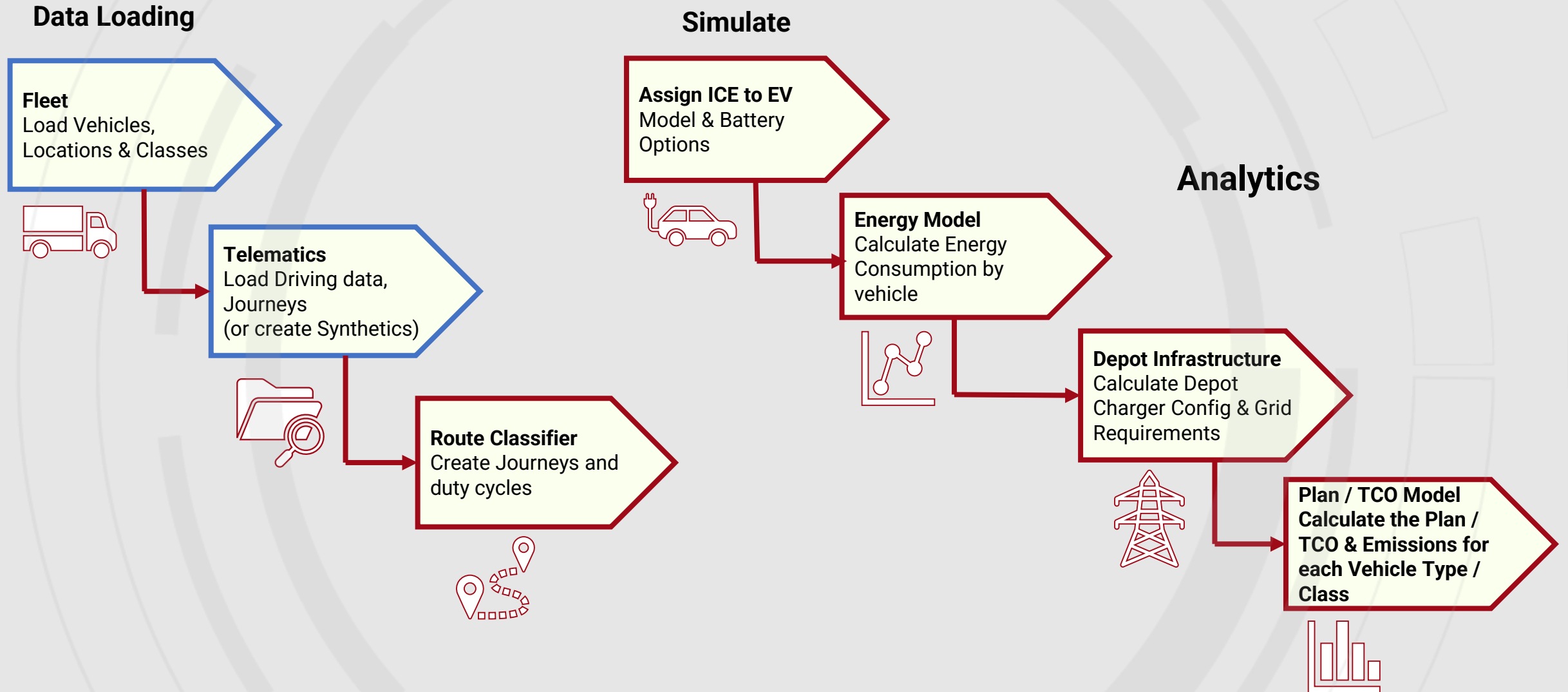
Low Estimate	£62,842
High Estimate	£171,482



In Summary

What do we need from you ?

Zero - Data, Simulation & Analytics





Questions

Contact

**If you would like to connect,
learn more about our software
tools and discuss your
requirements please contact:**

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