NOTTINGHAM
ELECTRIC VEHICLE SERVICES

Nottingham City Council

Going Ultra in Nottingham

Matt Ralfe – Innovation & Change Manager

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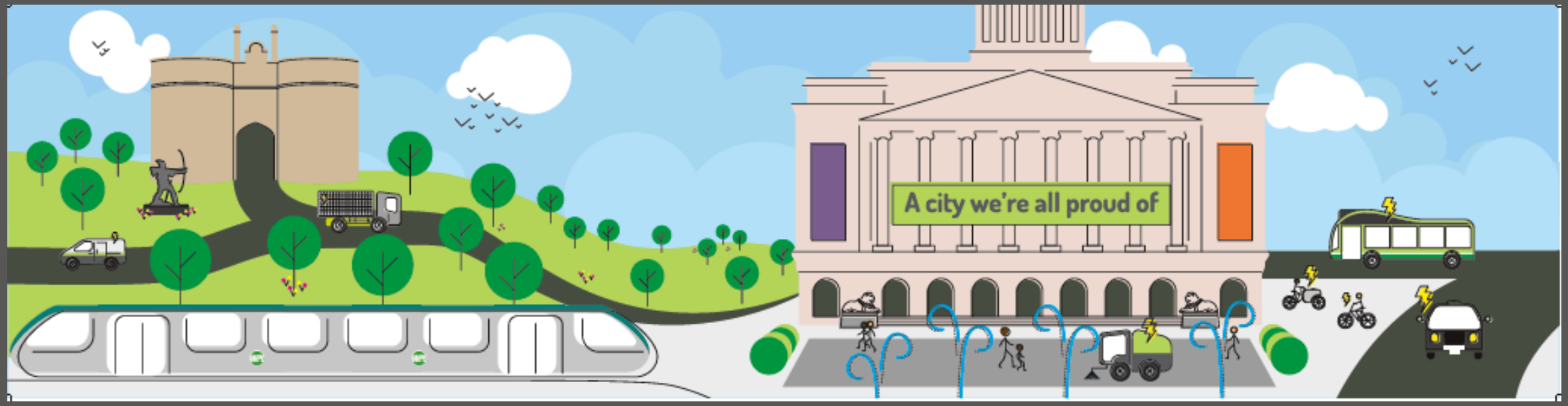

Why Nottingham

- History of transport innovation
- Tight geography, stable politics
- £1.6 million annual fuel spend, £200k inflation
- Change manager, not fleet manager

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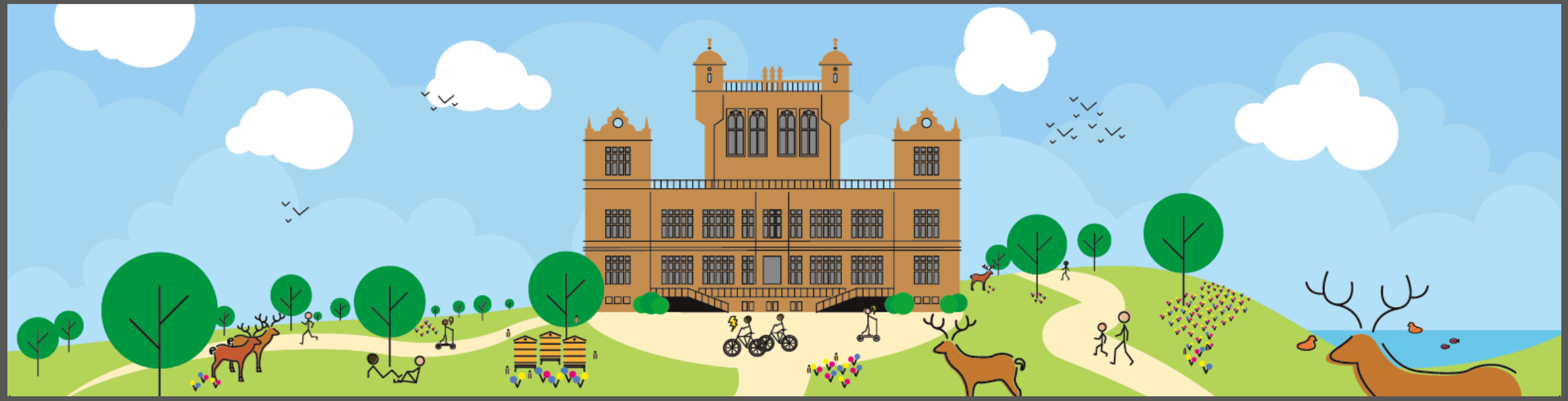

Air Quality

- **7.1t CO_2** emissions per capita p/a
- **28,000 – 36,000 deaths** p/a in the UK from poor air quality, **400** in Nottingham
- Commitment for **100%** of our fleet to be ULEV by 2028
- Our aim is to **set an example** for local fleet operators by **tackling the roadblocks** to converting to a low emissions fleet

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Snapshot

- **241** ULEVs– **51%** of fleet
  - 132 Vans
  - 54 Cars
  - 14 Cage Tippers
  - 8 Sweepers (+7 on order)
  - 6 Minibuses
  - 8 RCVs (+12 on order)

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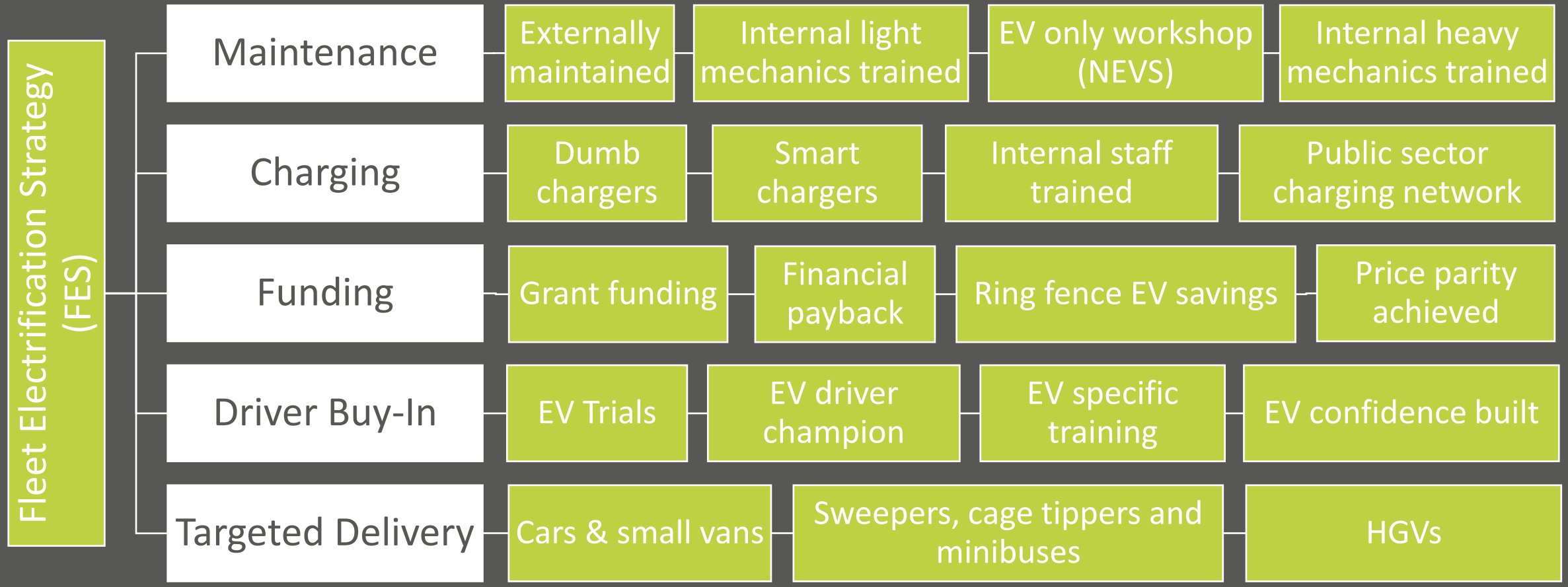
Spinning Plates



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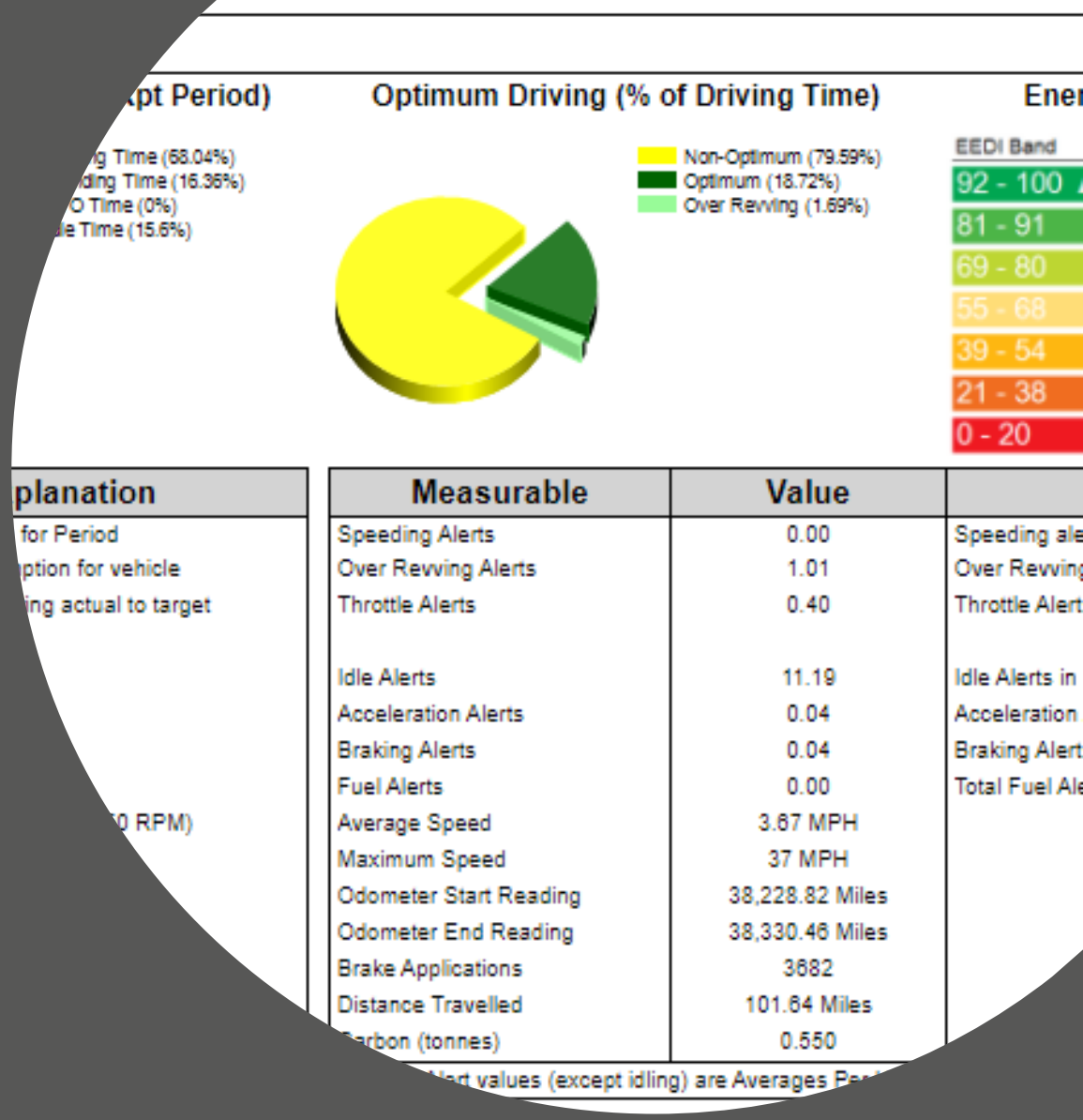
Do it now

- Latest emission standards on diesel
- Route optimisation
- Fuel additive
- Telematics – driver behavior
- Vehicle optimisation



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Infrastructure

- 144 chargers with 60 planned inc. 40 V2G
- Load management
- Bay management
- kW to match **need**
- Hard/soft dig, aesthetics
- Capacity (inc. amends to site)

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Available Vehicles

- Targeted delivery
- Lead times

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Maintenance

- Mechanic training and tools
- Exclusively ULEV garage
- Encourage potential EV buyers & mechanics

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Driver Buy In

- Research
- Buy based on data
- Start small – buy in
- EV training

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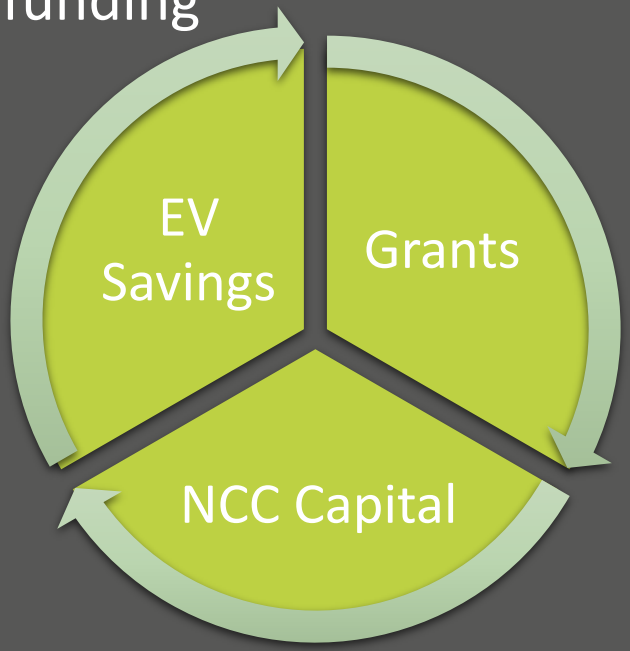
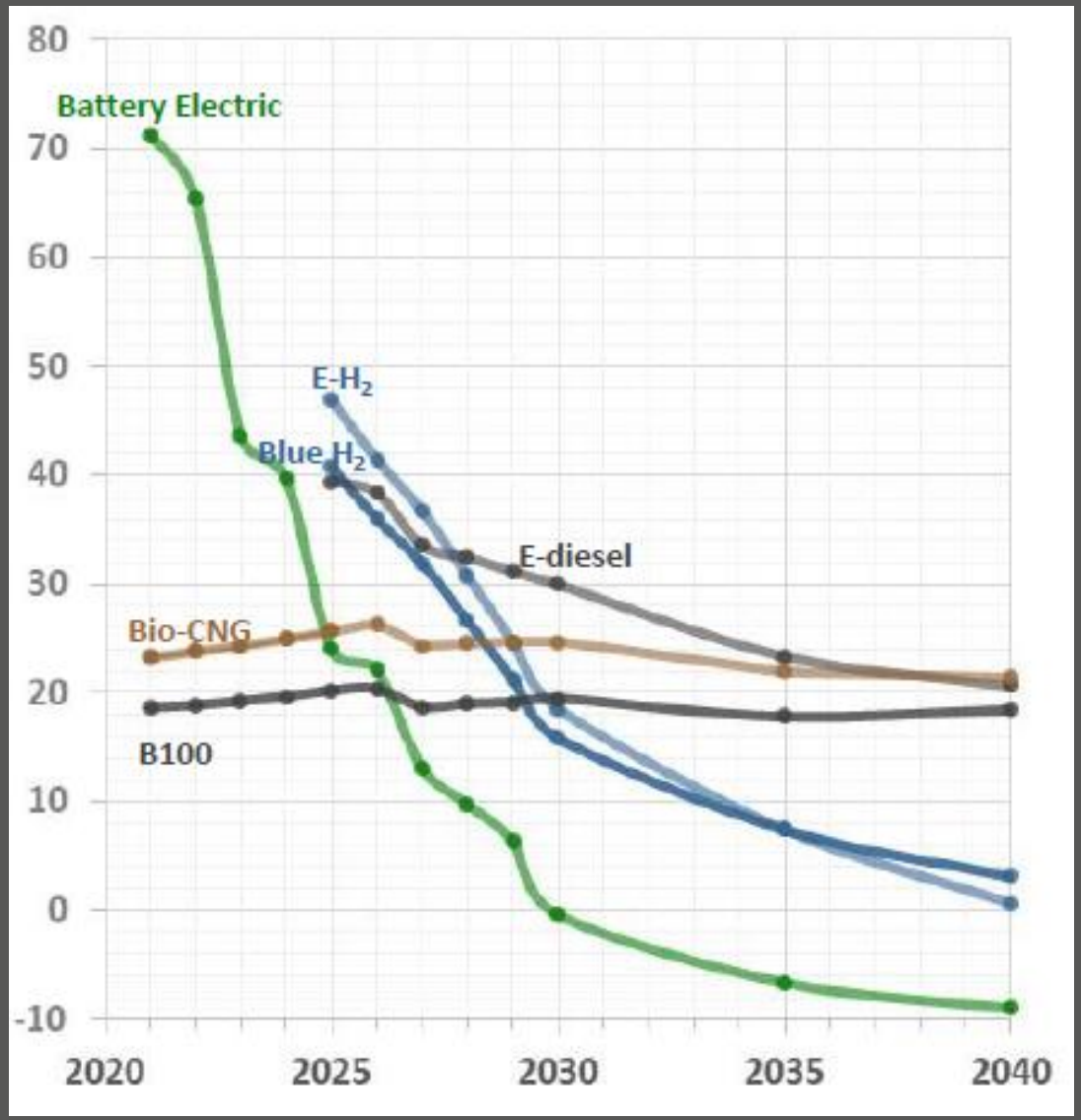
Funding

- Ring-fence savings
- Total Cost of Ownership (£x)
- Fund EVs by defunding diesels





Graph credit: Renault Trucks

Business Cases

Be prepared for:

- Grants
- Budget underspend / changes
- Vehicle availability
- Political requests

Be prepared with:

- Overarching documents and approvals
- Not 1 business case but 475
- Hit list and miss list
- Indirect benefits - driver, customer, political, service
- Work with the willing

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More plates

- Battery storage
- Micro grid
- PV canopies
- ULEV Grey Fleet
- Electric Van Experience
- Electric handheld
- Emobiliy Centre
- WiCET
- Public network
- Shared Public Sector Network

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ULEV Framework

The benefits of using our framework

- Expert, independent advice from a public sector body who are already well on their way to having an electric fleet
- Get a free consultation from us before you start on electrification – we have a multi-award winning fleet electrification strategy
- Initial help in getting the business cases completed including addressing political, financial and operational concerns by using our own, real-world data
- Reduced lead times and purchase prices
- Security that you are going to get a vehicle which is right for the job
- Increase local authority buying power
- Specifications which have been tested in a local authority environment
- Aftercare including advice on integrating the EV in to your operation
- Advice and even install of electric vehicle charge points
- Creates a network of EV authorities with shared lessons learned
- Allows a direct order to be placed or run a mini-competition to ensure the buyer gets the right vehicle for their locality's needs
- Maintenance advice from our experienced, IMI Level 4 qualified EV Mechanics

Our suppliers include

boschung
NISSAN
JAGUAR
LEVC
MAXUS
RENAULT Passion for life
MG
Ford
TOYOTA
LEXUS EXPERIENCE AMAZING
LAND ROVER ABOVE & BEYOND
Paneltex
FIAT
Hako Clean ahead
BUCHER hydraulics
RUNHORSE
GOUPIL
aebi schmidt
VW

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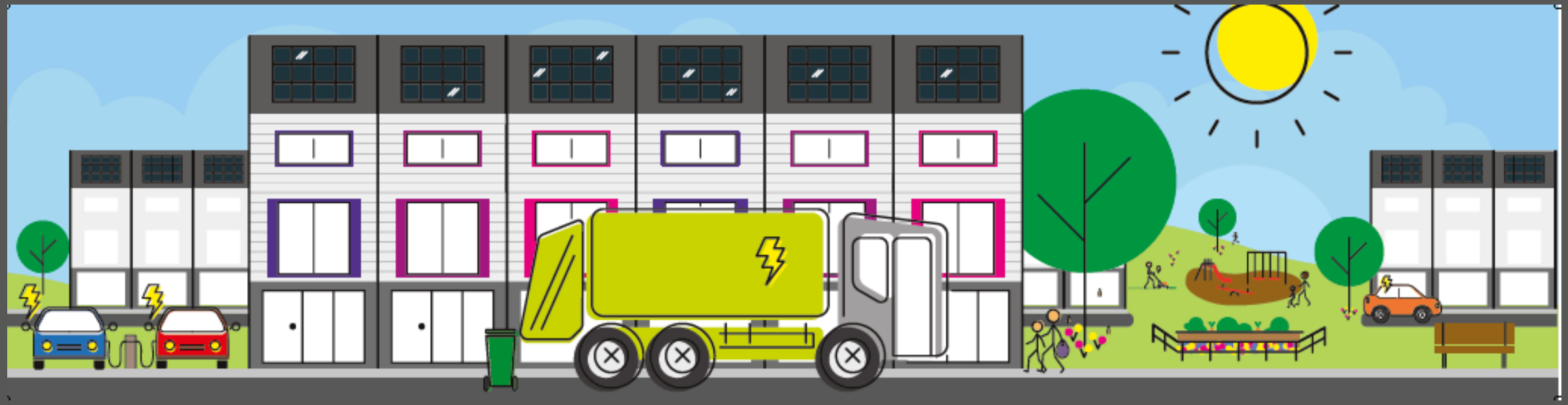

Website: NottinghamEVServices.co.uk

Email: matthew.ralfe@nottinghamcity.gov.uk

LinkedIn: Matt Ralfe

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