

Local Electric Vehicle Infrastructure (LEVI)

Climate Partnership Meeting

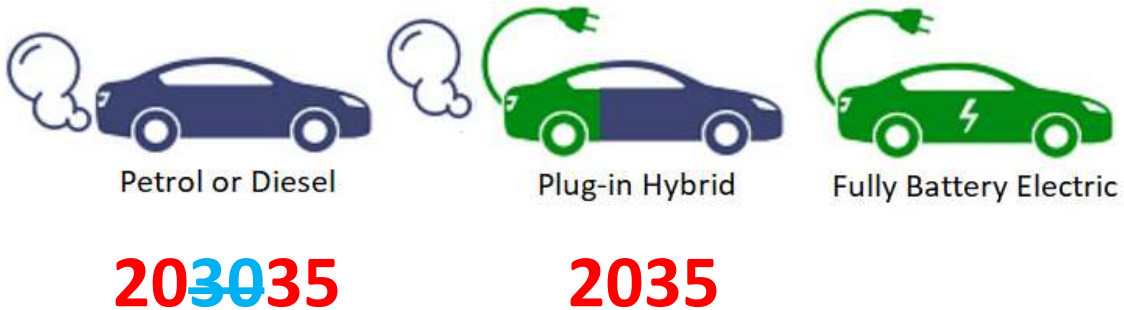
19th October 2023

Andy Sawyer - Key Route Network Manager LCRCA



Background & Scene Setting

UK Government Policy (New car or van sales)

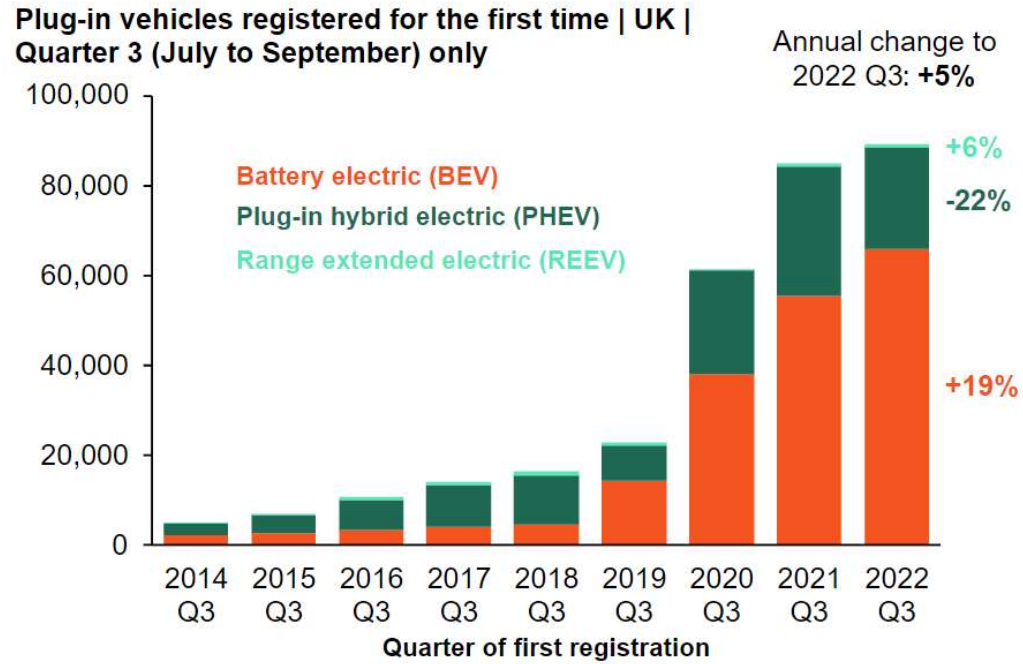


Climate Change Commission (Progress Report June 2023)

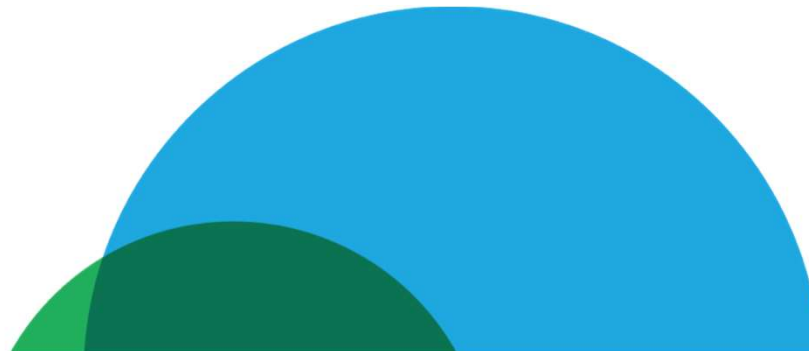
- Lack of urgency.....
-pandemic and fuel prices reduced traffic by 5% (from 2019 levels), increased renewable electricity generation and continued transition to electric vehicles
-less confident that ministers would meet their legally binding targets for 2030 and 2050 than last year.



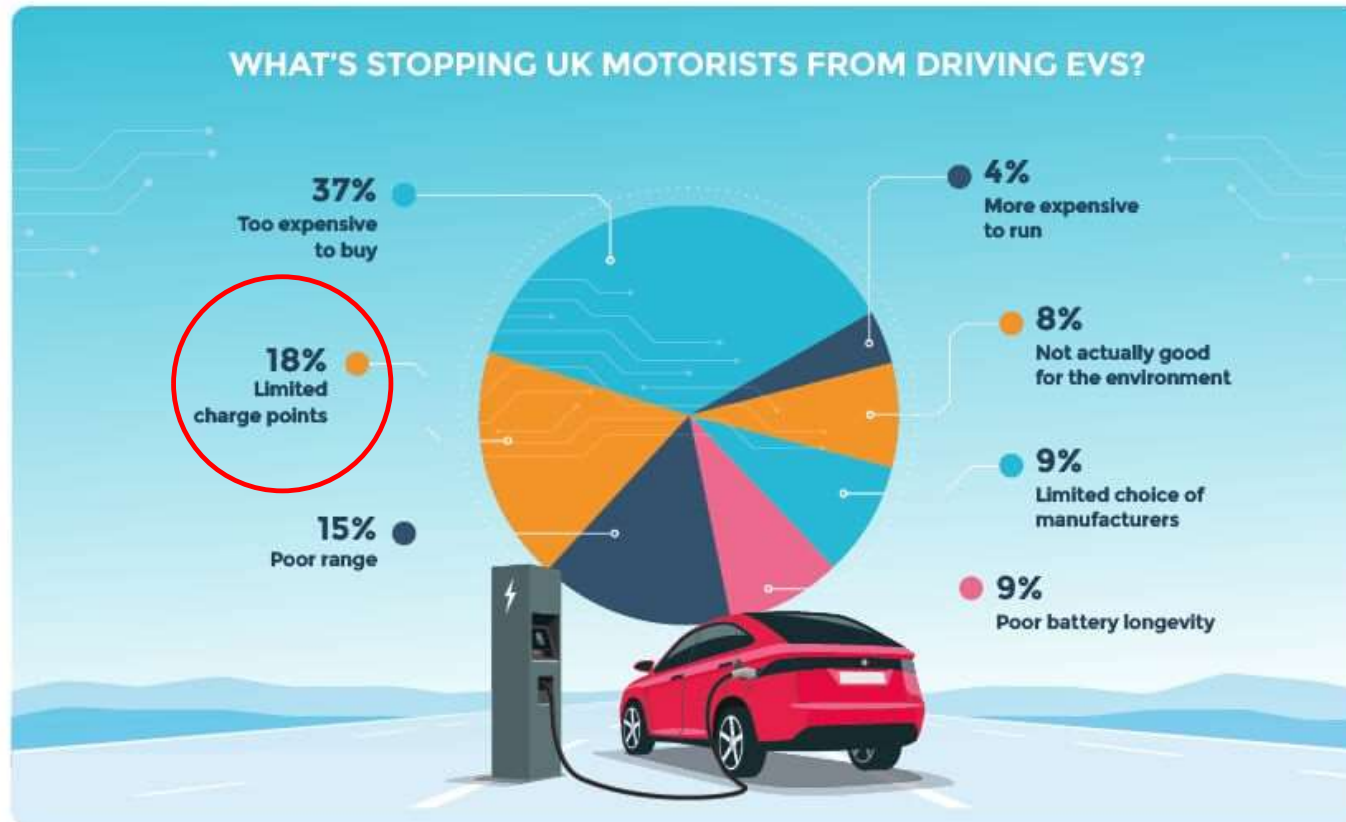
UK Electrification Journey



40.7m licensed vehicles
 (2022 Q3) 973k PiV = **2.38% PiV**



Barriers to Switching to EV



1,000 UK respondents surveyed. Data collected October 2020. Figures rounded for clarity.



What is LEVI and how will it help?

The Local Electric Vehicle Infrastructure (LEVI) Fund supports Local Authorities in England to plan and deliver charge point infrastructure for residents without off-street parking. The LEVI Fund has 2 main objectives:

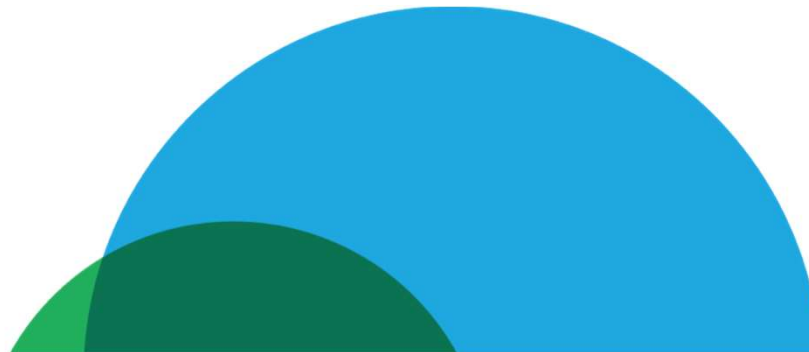
- deliver a step-change in the deployment of local, primarily low power, on-street charging infrastructure across England
- accelerate the commercialisation of, and investment in, the local charging infrastructure sector

The fund comprises of:

- capital funding to support charge point delivery
- capability funding to ensure that local authorities have the staff and capability to plan and deliver charge point infrastructure



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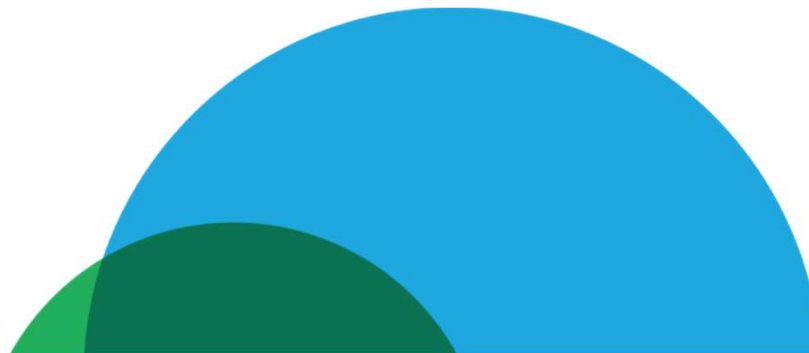
What is LEVI cont'd...

Earlier this year indicative capital funding was allocated to Tier 1 Local Authorities including Combined Authorities. Local Authorities need to follow a 3-stage process to access their indicative funding:

- stage 1: expression of interest
- stage 2: business case, criteria compliance and tender document review
- stage 3: contract review



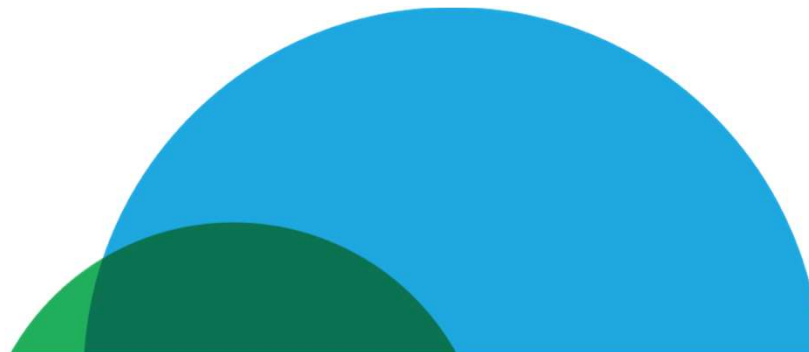
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LEVI Funding

Combined Authority (Capability / Revenue)	Financial year 2022 to 2023	Financial year 2023 to 2024	Financial year 2024 to 2025	Total allocation
Liverpool City Region CA	£132,660	£302,170	£302,170	£737,000

Combined Authority (Capital)	Indicative Allocation
Liverpool City Region CA	£9,647,000



What are the LCRCA LEVI Aims and Objectives?

LCRCA EVCI Aims

- To provide a sustainable electric vehicle charging infrastructure network that supports journeys across the Liverpool City Region, is easy to use, is inclusive and accessible for all, and offers good value for money, for all network users.
- To allocate the LEVI Capital Funding via a regional contract for the purposes of predominantly supporting the needs of residents without access to a private drive or garage by facilitating the delivery of on-street EVCI
- To contribute to a broader 'net zero' transport network which delivers healthier communities while supporting inclusive economic growth i.e. an EVCI network that supports wider transport policy such as Car Clubs, mobility hubs and support Motability users.

LCRCA EVCI Objectives

- Enable and deliver a comprehensive public electric vehicle charging infrastructure network across the Borough, including through our ability to influence and leverage investment from the private sector and other partners.
- Set out an approach to managing on highway EV charging, ensuring that residents without access to private off-road parking can access appropriate EVCI.
- Set out an approach to managing EV charging in Local Authority (and potentially Rail Station) car parks.
- Encourage new developments to include high quality electric vehicle charging infrastructure.



EV Infrastructure

Ultra-Rapid Charging Hubs



Mobility Hubs



Home-Charge



Lamp-post Charging



On-Street Charging (Typical)



On-Route Charging



On-Street Charging ('flat and flush')



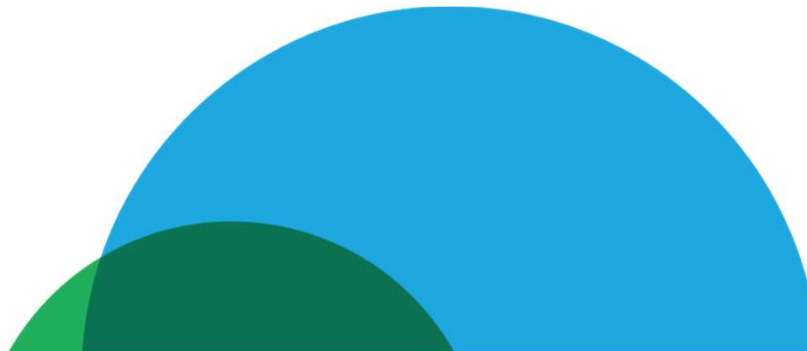
Innovation? V2G (Vehicle to Grid)



Car-Park/Destination



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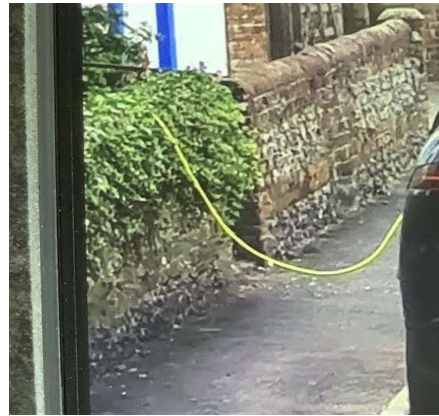
What are we trying to avoid?

Tailing cables.

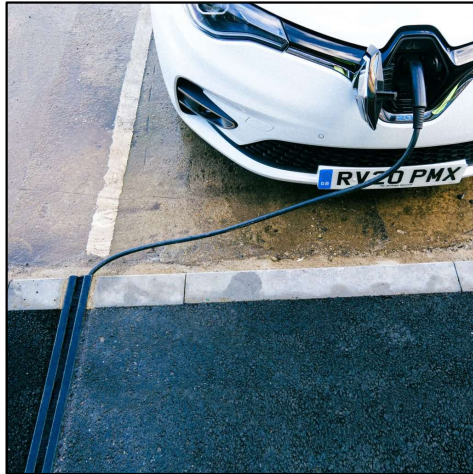
Home made solutions.

Extension leads.

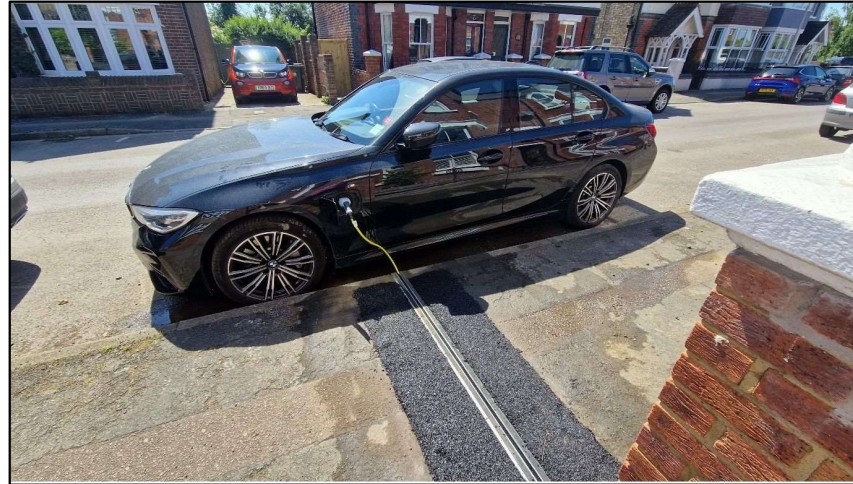
Electrically unsafe solutions



Possible solutions but not without risk!



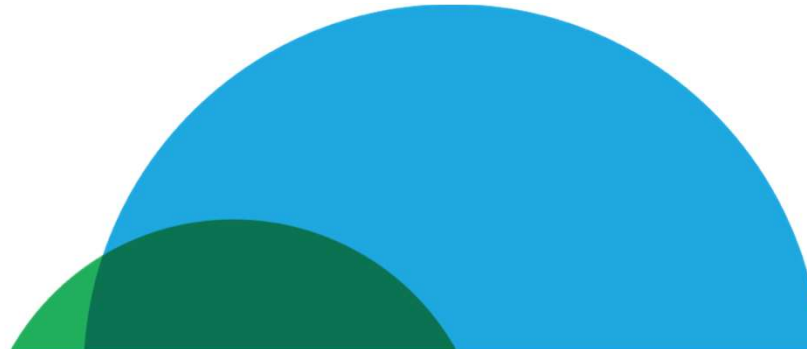
Better than a trailing cable across the footway? Eligible to use some LEVI funding to install.



Currently the Local Highway Authorities are reluctant to install due to potential liability and future maintenance issues



DfT are planning to look at new guidance as highlighted in the recent 'Plan for Drivers'



Lamp-post EVCI

Key Points

- Not all Local Authorities across the UK support lamppost charging.
- The cost of lamppost EVCI is very low compared to other on-street kit.
- Slow speed longer duration charging.
- The condition of lampposts are a key factor in deciding approach and quantities (Renewal Programmes, PFI schemes, etc).
- Lamp-posts are typically 30m to 50m apart and are therefore potentially less frequent than if dedicated on-street EVCI is installed. This could create some demand challenges in the future particularly for terraced streets with HMOs etc and multiple vehicles per dwelling.

Lamp-post Charging (Front of Kerb)

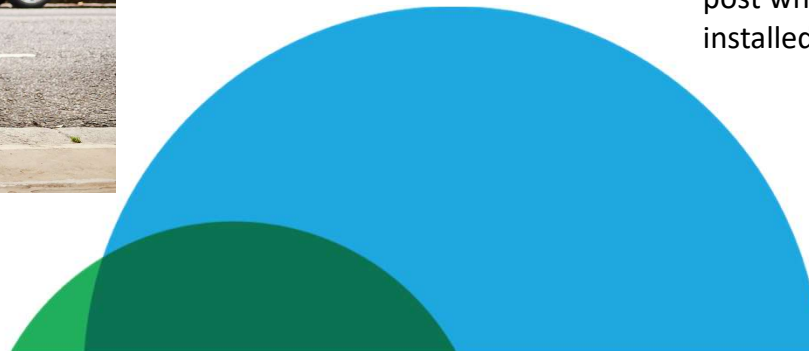


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Lamp-post Charging (Back of Kerb)



In this example the lamp-post is back of kerb and a bollard is installed front of kerb. The power cabling comes from the existing lamp-post which also hosts the metering. The EVCI is installed on the bollard at front of kerb.



Early Market Engagement

<https://procontract.due-north.com/Advert?advertId=6a336ac2-d852-ee11-8124-005056b64545&p=e0cc5631-4690-e511-80fb-000c29c9ba21>

The screenshot shows a ProContract advertisement page. At the top left is the ProContract logo, and at the top right is 'The Chest North West Portal' logo. The main title is 'Market Engagement for Liverpool City Region CA - LEVI Funding'. The page is divided into several sections:

- Main contract details:**
 - Opportunity Id: DN689642
 - Title: Market Engagement for Liverpool City Region CA - LEVI Funding
 - Categories: 101100 - Electrical
 - Description: Introduction
 - Text: A climate emergency was declared by the Liverpool City Region Combined Authority (LCRCA) and all LCR Local Authorities (LCR LA's) in 2019. All LCR authorities have declared a commitment to become net zero by 2040, with the exception of Liverpool who aim to...
 - Link: [Show more](#)
 - Region(s) of supply: Merseyside
 - Estimated value: N/A
 - Keywords: Electric Vehicle Charging Points
- Expression of interest window:**
 - From: 14/09/2023 10:00 to 06/10/2023 17:00
 - Button: [Login and register interest in this opportunity](#)
 - Section: **New to ProContract?**
 - Text: If you are not currently registered on the ProContract procurement portal, you can complete a simple registration process by clicking the following link - [Register here](#)
- Contact details:**
 - Buyer: Merseytravel
 - Contact: Faye Gunson
 - Email: faye.gunson@liverpoolcityregion-ca.gov.uk
 - Telephone: 0151 330 1111
 - Address: 1 Mann Island, Liverpool, Merseyside, L3 1BP, United Kingdom
- Key dates:**
 - Section: **Estimated contract dates**
 - Start date: 14/09/2023
 - End date: 06/10/2023
- Attachments:**
 - [LCR EVCI Market Engagement Questions V1.xlsx](#) (30 KB)

At the bottom of the page, there are links for [Cookie policy](#), [Terms and Conditions](#), [Privacy](#), [Accessibility](#), and [Help Center](#). The version number is 23.3.1.



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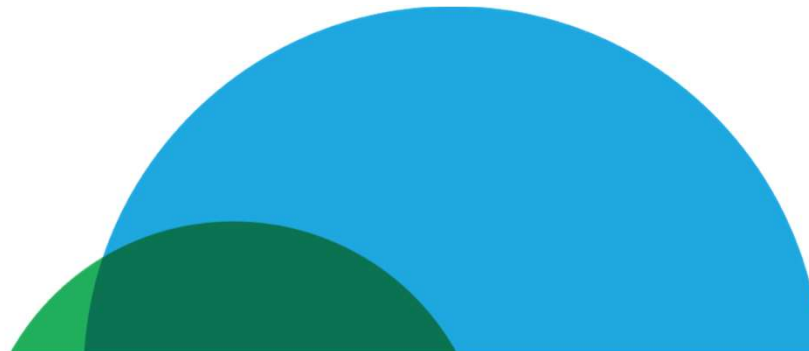


Progress to Date

- E.O.I's – Capability and Capital (Tranche 1 allocation)
- Local Authority Workshop
- Energy Saving Trust (EST) and Office for Zero emission Vehicles (OZEV), support.
- D.N.O Scottish Power.
- Early Market Engagement.
- Discussions with Procurement & Legal.
- Recruitment & Resources.

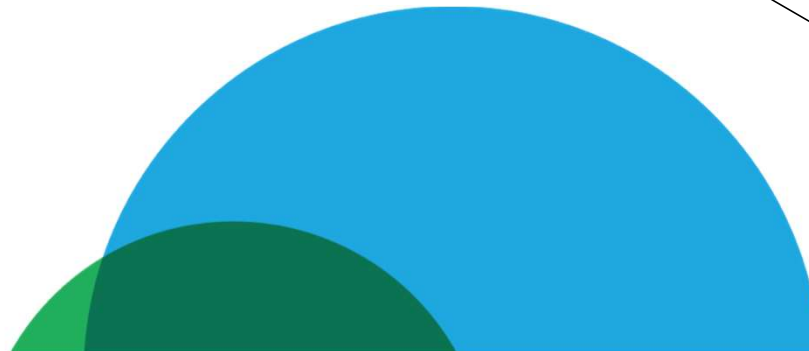


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Stage 2 Submission

- 23 Page Document
- Over 60 questions
- Key Sections:-
 - ❖ *Section 1 - strategic Fit*
 - ❖ *Section 2 - value for money and additionality*
 - ❖ *Section 3 - expected commercial arrangements*
 - ❖ *Section 4 - meeting consumer needs*
 - ❖ *Section 5 - strength of the delivery plan*
 - ❖ *Section 6 – project scale*
 - ❖ *Section 7 - criteria compliance*
- **Need to now fill the gaps!**



Collaborative Approach

Halton



Sefton



Knowsley



St Helens



Liverpool



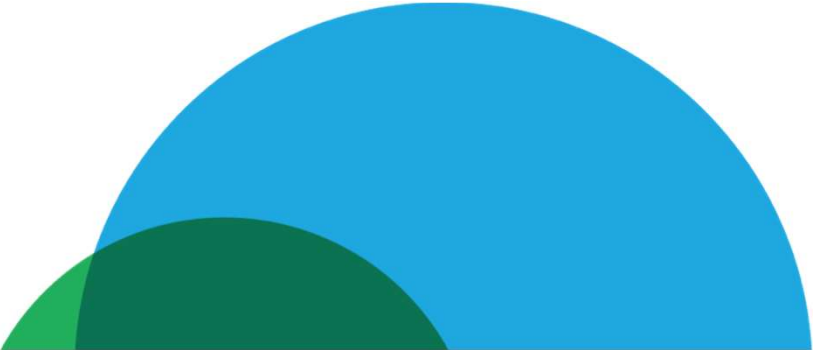
Wirral



LCRCA



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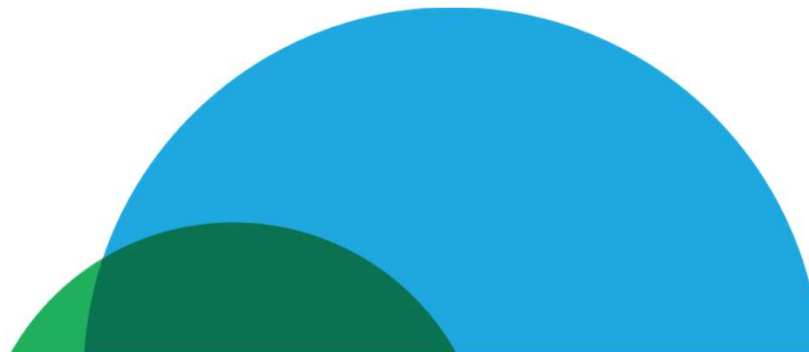
Next Steps

- Information from LA's to be submitted to support the completion of the Stage 2 Application
- Proceed with Recruitment using the capability funding.
- Review of Early Market Engagement returns to shape proposed Contract and Lots
- Briefings and approvals – TAG, Growth Directors, Leaders & CEX's etc
- CA Report / Meeting inc' Delegations - **3rd November**
- Submit Stage 2 Application - **30th November**



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Questions ?



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