

Bin Sensor Technology – Additional Procurement

Report Of Public Realm Improvement Lead

PURPOSE OF REPORT				
To obtain authorisation to pursue further procurement of additional bin sensor technology to assist with efficiencies and innovation with the Cleansing Service.				
Key Decision	X	Non-Key Decision		Referral from Cabinet Member
Date of notice of forthcoming key decision	8 TH December 2023			
This report is public				

OFFICER RECOMMENDATION

That the proposal to acquire further bin sensor units in addition to those currently deployed, enabling full coverage and optimisation of litter bin collections carried out via the Cleansing service.

1.0 Introduction

- 1.1 The Council currently utilises the provision of 189 litter bin sensor units, allowing Lancaster City Council the ability to effectively manage waste fill-levels and ensure that litter is collected when required and appropriate.
- 1.2 A trial of the current 189 sensors has taken place within the Heysham litter bin collection round, and this has enabled effective data capture to be undertaken.
- 1.3 Following the installation, the Heysham Cleansing round has seen a noticeable improvement in time employed in the task of litter bin collections, allowing for deployment of staff to assist with other key cleansing tasks.
- 1.4 The technology has proven to be an effective and reliable system in streamlining collection operations, and therefore providing not only operational, but also economic and environmental benefits.

2.0 Proposal Details

- 2.1 The primary proposal is to implement REEN sensor technology across Lancaster City Council's Street Cleansing operations, in line with key service objectives of digital transformation and innovation.
- 2.2 The system promotes the modernisation of resource management by enabling more effective collections based on data analytics.
- 2.3 The proposal is to purchase via lease arrangements, an additional 1,000 bin sensors required to enable every litter bin within the district.

3.0 Details of Consultation

3.1 There are no statutory consultation consideration required to be undertaken in respect of this procurement process.

4.0 Options and Options Analysis (including risk assessment)

	Option 1: <u>Leasing Model</u> £8 per sensor (incl Hub platform & Advanced Routing), Min.36mth Contract. £114,144 annual fee	Option 2: <u>Purchase & Subscription Model</u> £130 per sensor purchase fee, + £6 per sensor for Hub platform & Advanced Routing, Min.36mth Contract. £130,000 purchase cost, £85,608 annual fee	Option 3: <u>Leasing Model</u> £7 per sensor incl Hub platform & Advanced Routing, Min 60 mth contract £99,876 annual fee (£14,268 saving)	Option 4: <u>Purchase & Subscription Model</u> £112 per sensor purchase, £4.50 per sensor / mth subscription fee for Hub platform & Advanced Routing, Minimum 60mth contract, £112,000 purchase cost (£18,000 saving £64,206 annual fee (£21,402 saving))
Advantages			Longer period and smaller initial outlay. (The figure quoted is also in line with the relevant Procurement Supplier Framework)	
Disadvantages	Overall annual fee is above available funds	Purchase & Subscription fees are excessive	None – this is the 'best fit' in conjunction with operational savings that can be achieved	Outlay figure is in excess of the available budget limit available
Risks			The only risk associated with this is in regards to the expiration of the pricing offer available to Lancaster City Council (due to expire 15.12.2023) ----- This is in line with the pricing as set out in Liverpool City Council Procurement Supplier Framework (REEN is an identified supplier)	

5.0 Officer Preferred Option (and comments)

5.1 The officer recommendation is to procure the additional sensors via Option 3 as set out in the Proposal document provided by REEN.

6.0 Conclusion

- 6.1 The benefits of the procurement and installation of the additional 1,000 bin sensors throughout the district outweighs and negatives. The current 189 sensors in situ have already established they can assist in the development of innovative practice and increased productivity.
- 6.2 The additional sensors will enable a full and effective service to launch and continue to improvements surrounding collection routing.
- 6.3 Less unnecessary travel throughout the district will assist not only in improving the deployment of Cleansing teams to other, priority work required within the service, but also assist with the delivery of Lancaster City Council Climate Emergency goals, such as reducing fleet fuel consumption, but also reduce CO2 emissions.
- 6.4 An increase provision of sensors also aids the delivery of key Corporate Priorities, such as;
- Sustainable District
 - Healthy & Happy Communities
 - Cooperative, Kind & Responsible Council

RELATIONSHIP TO POLICY FRAMEWORK

Under the Liverpool City Council / APSE URS Framework (contract reference DN467196) REEN Services can be directly awarded. We are satisfied that the criteria within the framework is met.= in respect of this procurement process.

CONCLUSION OF IMPACT ASSESSMENT

(including Health & Safety, Equality & Diversity, Human Rights, Community Safety, HR, Sustainability and Rural Proofing)

N/a

LEGAL IMPLICATIONS

There are no legal implications directly arising from this report.

FINANCIAL IMPLICATIONS

The budgetary requirements pertaining to the procurement of additional REEN sensors have been met operationally through adjustments made utilising vacant established positions and fleet management changes. They changes are cost neutral and have been included in the draft budget prepared as part of the current 2024/25 revenue budget process.

The ongoing performance of the sensors will be strictly monitored within service and will be reported as appropriate.

OTHER RESOURCE IMPLICATIONS

Human Resources:

None directly arising from this report.

Information Services:

None directly arising from this report.

Property:

None directly arising from this report.

Open Spaces:

With the provision of the proposed additional bin sensors, this will assist in the continued work to improve the local environment and improve public open space within the District.

SECTION 151 OFFICER'S COMMENTS

The s151 Officer has been consulted and has no additional comments to make.

MONITORING OFFICER'S COMMENTS

The Monitoring Officer has been consulted and has no additional comments to make.

BACKGROUND PAPERS

Cabinet Member Notice of Decision

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Ref: