Herefordshire Council

Herefordshire Council Environmental Impact Assessment Form

Name of proposal	Technology and Lighting (S16)
Directorate and Service Area	Environment and Place
Saving £k	£ 90k
Name of Lead Officer(s)	Clive Hall

Step 1: What is the proposal?

Please explain your proposal in plain English, avoiding acronyms and jargon.

1.1 What is the proposal?
Investment in and deployment of artificial intelligence (AI) and machine learning survey technology for routine and Streetworks inspection, leading to less inspection resources being needed. Deployment of AI Traffic data analysis technology, enabling Hereford to be a test bed for infrastructure improvements that encourage sustainable travel modes. Other AI applications will exist across the public realm service, applications that might be considered include street cleaning/bin emptying, drainage clearance, winter service. Including an investment of part night lighting (i.e. Street lights off midnight onwards) and some street lighting removal.

Step 2: What environmental aspects will be affected by the development and implementation of this proposal?

Air quality	X	Hazardous materials	X
Biodiversity	X	Noise pollution	X
Carbon emissions	X	Soil and water quality	X
Flooding and climate resilience	X	Waste and recycling	X
		Other	X

If other please state:

Is this:

Review of an existing activity	X
New activity	X
Planning to withdraw or reduce a service, activity or presence?	

Step 3: What information and evidence have you reviewed to help inform this assessment?

For example name sources e.g. traffic assessments, carbon and energy calculations, air quality assessment, ecological surveys, waste analysis etc.

3.1 What information and evidence have you reviewed to help inform this assessment? Traffic, carbon, energy and other related studies, proposals and schemes.
3.2 Summary of engagement or consultation undertaken Engagement through regional and national best practice groups. Some local engagement through past scheme proposals/delivery.
3.3 Summary of relevant findings There is a huge potential for this proposal to support carbon reduction and biodiversity net gain. All should be described and captured in detail through element specific impact assessments and action plans.

Step 4: The impact of this proposal

4.1 The impact of this proposal

Please consider the potential impact of this activity (during development and implementation) on each of the key considerations outlined below. Please tick one or more impact box below for each and explain your rationale. Please note it is possible for the potential impact to be both positive and negative within the same group and this should be recorded.

	Potential positive impact	Potential neutral impact	Potential negative impact	Reasons
Air quality	X			Real time usage information can support modal shift and reduce congestion.
Protection and enhancement of Biodiversity	X			Efficiencies in asset management
Carbon emissions	X			Energy reduction
Flooding and climate resilience	X			Real time monitoring and response to flood. Enhanced asset resilience through asset management
Use/management of hazardous materials	X			Drainage improvement/response to incidents triggered though AI tech at critical sites.

Noise pollution	X			Supporting modal shift
Soil and water quality	X			Drainage improvement through timely system clearance informed by AI
Waste and recycling	X			Reductions in process waste through improvements in asset management lifecycle planning.
Other	X			Dark Skies

4.2 What actions will you take to mitigate any potential negative impacts?
Careful design and deployment on an element specific basis.

Step 5: Monitoring and Review

5.1 How will you monitor and review these actions?
Through element specific Environmental Impact Assessments and associated action plans.

Service Director sign-off:	**Date:**
Richard Ball Director of Economy & Place	29 January 2021