

User guidance:

- The first section of this form guides users through considering major areas where emissions are likely to occur. If emissions are impacted in a way not covered by these categories, please identify this at the bottom of the section
- The first section should be filled as such:
 - **Impact:** identify, in relation to each area, whether the decision of the proposal does the following: *reduces emissions, increases emissions, or has no impact on emissions*. If it is uncertain this section can be labelled *impact unknown*
 - If **no impact on emissions** is identified: no further detail is needed for this area, but can be added if relevant (e.g. if efforts have been made to mitigate emissions in this area.)
 - **Describe impacts or potential impacts on emissions:** two sections deal respectively with emissions from the Council (including those of contractors), and emissions across Rotherham as a whole. In both sections please explain any factors that are likely to reduce or increase emissions. If **impact unknown** has been selected, then identify the area of uncertainty and outline known variables that may affect impacts.
 - In most cases there is no need to quantify the emission impact of an area after outlining the factors that may reduce or increase emissions. In some cases, however, this may be desirable if factors can be reduced to a small number of known variables (e.g. if an emission impact is attached to a known or estimated quantity of fuel consumed).
 - **Describe any measures to mitigate emission impact:** regardless of the emission impact, in many cases steps should be taken in order to reduce mitigate all emissions associated with each area as far as possible; these steps can be outlined here (For example: if a proposal is likely to increase emissions but practices or materials have been adopted in order to reduce this overall impact, this would be described here).
 - **Outline any monitoring of emission impacts that will be carried out:** in this section outline any steps taken to monitor emission levels, or steps taken to monitor the factors that are expected to increase or reduce emission levels (for example, if waste or transport levels are being monitored this would be described here)
- A **summary paragraph** outlining the likely overall impacts of the proposal/decision on emissions should then be completed - this is not required if the proposal/decision has no impact across all areas.
- The supporting information section should be filled as followed:
 - Author/completing officer
 - **Research, data, or information** may refer to datasets, background documents, literature, consultations, or other data-gathering exercise. These should also be added to the **supporting documents** section of the cabinet report

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- Carbon Impact Assessments are to be appended to the associated cabinet reports
 - Prior to publishing reports, Carbon Impact Assessments should be sent to climate@rotherham.gov.uk for feedback
 - Report authors may also use the above email address to direct any further queries or to access further support regarding completing the assessment

Proposed traffic calming, Bradgate Lane, Kimberworth (Local Neighbourhood Road Safety Scheme – Tranche 1)					
Will the decision/proposal impact...	Impact	If an impact or potential impacts are identified			
		Describe impacts or potential impacts on emissions from the Council and its contractors.	Describe impact or potential impacts on emissions across Rotherham as a whole.	Describe any measures to mitigate emission impacts	Outline any monitoring of emission impacts that will be carried out
Emissions from non-domestic buildings?	No impact on emissions	Not applicable in this instance	Not applicable in this instance	Not applicable in this instance	Not applicable in this instance
Emissions from transport?	Unknown	There is expected to be minimal additional emissions associated with travel related to the development and construction of this scheme.	Paragraph 2.44 of the Speed Limit Appraisal Tool, produced by the Department for Transport states that 'CO2 emissions will increase where speed is reduced from around 40 mph. Given that Mean Speeds are anticipated to be lower along Bradgate Lane post implementation, than existing mean speeds of 25.3mph and an 85 th percentile speed of 34.7mph., then the overall impact on CO2 emissions is likely to be insignificant. The mitigation to support this is as follows: 1. Road safety improvements (reduced speed limit) contribute to a more efficient transport system with fewer accidents. A slower consistent speed should in principle result in a lower carbon impact by way of	Not applicable in this instance	Given small impacts and infeasibility of monitoring carbon emissions arising from small scale traffic interventions, no monitoring is proposed.

			<p>reducing incident costs and smoother traffic flows.</p> <p>2. Alternative effective speed reducing measures such as give and take for example would have a far greater carbon impact due to additional vehicle stop/starts required.</p> <p>3. The proposed scheme would expect to see a reduction in emergency service activity associated with fewer road traffic collisions.</p>		
Emissions from waste, or the quantity of waste itself?	Increase emissions	Installation of road humps and associated signage will result in excavations and/or disposal of materials as part of construction, with consequential one-off increase in waste and associated emissions.		The Council's Direct Services Organisation will be expected to work with contractors to ensure carbon emissions are minimised as far as practicable, including actively seeking opportunities to cut emissions from existing operation.	Not applicable in this instance.
Emissions from housing and domestic buildings?	No impact on emissions	Not applicable in this instance	Not applicable in this instance	Not applicable in this instance	Not applicable in this instance
Emissions from construction and/or development?	Increase emissions	All highway schemes have construction emissions arising from the supply, installation, maintenance, and operation of the schemes. The scale and nature of these cannot be confirmed until schemes are	No impact expected beyond the contribution from RMBC and its contractors.	Scheme PMs will be expected to provide estimates of carbon emissions associated with construction and operation of schemes.	Not applicable in this instance

		identified and more developed.		Scheme PMs will be expected to work with designers and contractors to ensure carbon emissions minimised as far as practicable, including actively seeking opportunities to cut emissions from existing operation.	
Carbon capture (e.g. through trees)?	No impact on emissions	The proposed scheme does not include Carbon Capture measures due to the nature of works involved	No impact expected.	Not applicable in this instance	Not applicable in this instance
Identify any emission impacts associated with this decision that have not been covered by the above fields:					
None					

Please provide a summary of all impacts and mitigation/monitoring measures:

In summary, the following impacts are expected, with the scale and balance of emissions unknown until projects are further developed -

- A one-off increase in emissions associated with development and construction of the projects;
- An ongoing increase in emissions associated with the maintenance and operation of the projects; and,
- Potential but unquantifiable change in emissions from transport resulting from the schemes.

The increases associated development, construction, maintenance and operation reflect the systemic nature of the carbon emissions problem; whilst the energy and construction systems are emitters of carbon, any additional activity utilising these systems can be expected to result in increases in emissions. Some changes in emissions from traffic can be expected as a consequence of the proposals, but the balance of these changes is complex and impracticable to quantify, but is expected to be very small on account of impacting low volumes of traffic over short distances.

The changes are thought likely to be very small in the context of overall transport emissions in Rotherham, and very small in the context of the NZ2030 and NZ2040 targets, and also remaining carbon budgets.

Mitigation will principally consist of estimate of carbon emissions being prepared as schemes are developed, PMs being required to ensure emissions are reduced as far as practicable in the design and construction of the projects, and this feeding into scheme prioritisation.

Supporting information:

Completed by: (Name, title, and service area/directorate).	Simon Quarta Engineer Transport & Infrastructure
Please outline any research, data, or information used to complete this [form].	
If quantities of emissions are relevant to and have been used in this form please identify which conversion factors have been used to quantify impacts.	
Tracking [to be completed by Policy Support / Climate Champions]	Reference: CIA328 Katie Rockett, Climate Change Officer