



Winchester
City Council

Winchester Net Zero Project *Health & Environment Policy Committee*

A Roadmap to Carbon
Neutrality for Winchester
District by 2030

05 July 2022



AGENDA

- 1 About WSP and WSP Net Zero Cities
- 2 About the Project and Project Team
- 3 Preliminary results and Work To Date
- 4 Next Steps





01

WSP and Net Zero Cities





1. Introduction

About WSP

WSP is one of the world's leading sustainability and climate action professional services consulting firms. We are dedicated to seeing the future more clearly and designing for it today, to deliver resilient solutions that allow communities to thrive. With over 48,000 staff globally, we deliver solutions that will help societies grow for generations to come. We adopt a three-pronged approach of science, engineering and management consultancy and believe in redefining what is possible for our clients.

We are exceptionally well placed to help deliver this project for three main reasons:

Our relevant experience

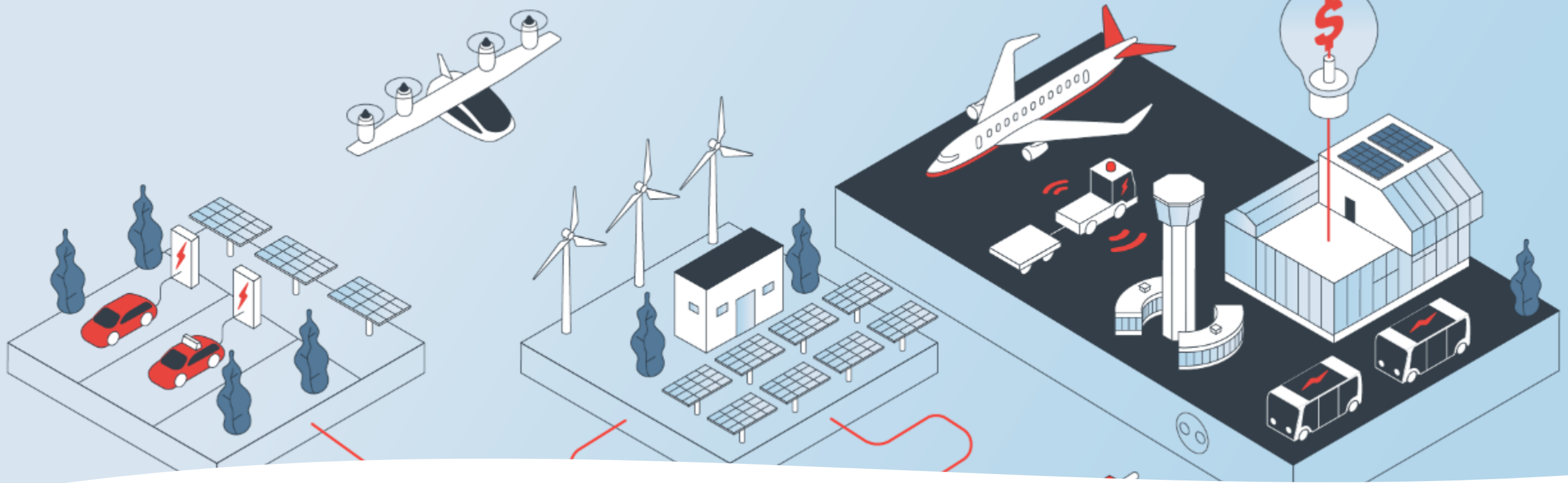
- We have committed to going carbon neutral by 2025 and reducing the carbon impact of our designs by 50% by 2030.
- We have recently teamed up to launch a new pledge campaign, Pledge to Net Zero, urging companies from across the environmental services sector to set science-based targets and report on decarbonisation progress
- We are also the Global Good Awards Company of The Year and were voted Most Sustainable Company in the Engineering Industry (2019).

Our Future Ready perspective

- Future Ready is WSP's global sustainability programme which embeds innovation into our business as usual.
- We see the future more clearly through key trends in climate change, society, technology and resources, and challenge ourselves to advise on solutions that meet the needs of both today and the future.

Our values

- We are members of the Aldersgate Group and the UKGBC and we work closely with academic organisations like UCL, Keele University and associations like UKGBC and CIBSE.
- We are ISO14001, OHSAS 18001 and ISO9001 accredited.
- We have strong ethics, equality and diversity policies in place and are proud of our staff and client- base.



NET ZERO CITIES TEAM

Our mission

- WSP's net zero cities team works with clients across the world to **define net zero and provide evidence-based strategies to enable cities and regions to meet their ambitious climate targets.**
- Our service offering brings together **decarbonisation pathways, climate resilience plans and economic expertise for action-oriented support** to cities and regions to deliver on their net zero ambitions.



02

Project and Team



2. PROJECT OVERVIEW

Objective of the assignment:

Create a roadmap for Winchester City Council to become a carbon neutral district by 2030 through project interventions and investments with resultant carbon savings, covering the period from March 2022 to December 2030

The roadmap tool will be freely updateable by WCC and the roadmap report accessible to the public and partners

- This tool is for WCC to plan, manage and monitor activities for the annual reporting of the Carbon Neutrality Action Plan (CNAP)

Timeline:

June to September 2022

Context:

- The council is committed to becoming a carbon neutral council by 2024, and is aiming for the wider district to be carbon neutral by 2030
- Various stakeholders and the council's Carbon Neutrality Stakeholder Group need to be engaged to agree a common goal and a consensus on the way forward
- A number of resources and information (tools and reports) that have been developed by the council and will form the basis of this project e.g. Biodiversity Action Plan

WSP PROJECT TEAM



Bevan Jones
Project Director



Dr. Katherine Maxwell
Project Manager



Milimer Morgado
Project Manager



Harriett Ricketts
Natural Capital
Lead



Jamie Baxter
Carbon & Energy
Lead



Oliver Clay
Project Support



Jenny Gilbert
Principal
Ecological
Economist



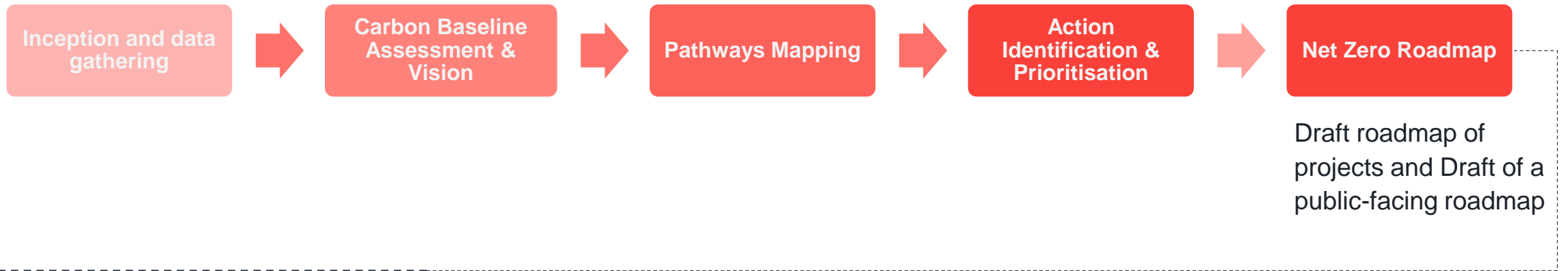
Alice Creasy
Project Support



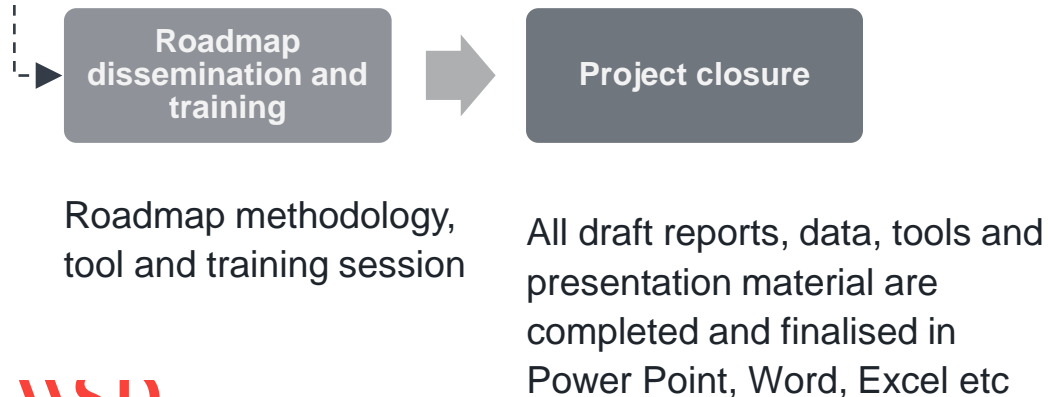
Vaughn Lewis
Project Support

2. PROJECT METHODOLOGY

Phase 1 – Understanding, analysis and measurement



Phase 2 & 3 – Recommendations and roadmap



MILESTONES AND DELIVERABLES

| Phase | Tasks | Milestones | Deliverables | Timeline |
|-------|-------|--|--|---------------------|
| 1 | 1 | Inception report | | 13 June 2022 |
| | 2 | Carbon Baseline Assessment & Vision | | 03 July 2022 |
| | 3 | BAU and scenarios | | |
| | 4 & 5 | List of prioritised actions and their impact | | |
| | 6 | | <ul style="list-style-type: none"> Output 1 - a draft Roadmap of projects Output 2 - a draft public facing representation to the Roadmap Presentation at Health & Environment Policy Committee on 5 July 2022 | By end of July |
| 2 | 7 | | <ul style="list-style-type: none"> Revision of Outputs 1 & 2 Output 3 - the tools and methodology Output 4 - training session on the Roadmap use | By end of August |
| 3 | 8 | | <ul style="list-style-type: none"> All draft reports, data, tools and presentation material are completed and finalised and provided to the council in usable formats, Power Point, Word, Excel etc. | By end of September |



03

Preliminary results and work in progress





SUMMARY OF WORK TO DATE AND IN PROGRESS

Conducted a data collection and review of relevant documents and policy

Completed a review and update of the districts' carbon baseline

Modelled Business-as-Usual (BAU) policies

Begin to set-up the roadmap to carbon neutrality tool

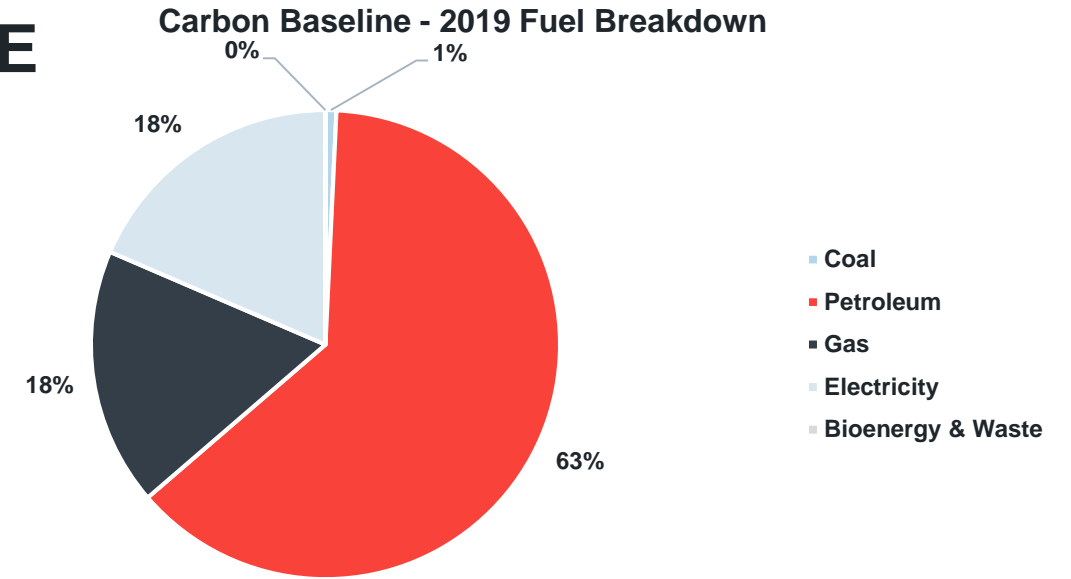
Conducted a high-level review of the CNAP

Completed a stakeholder engagement plan

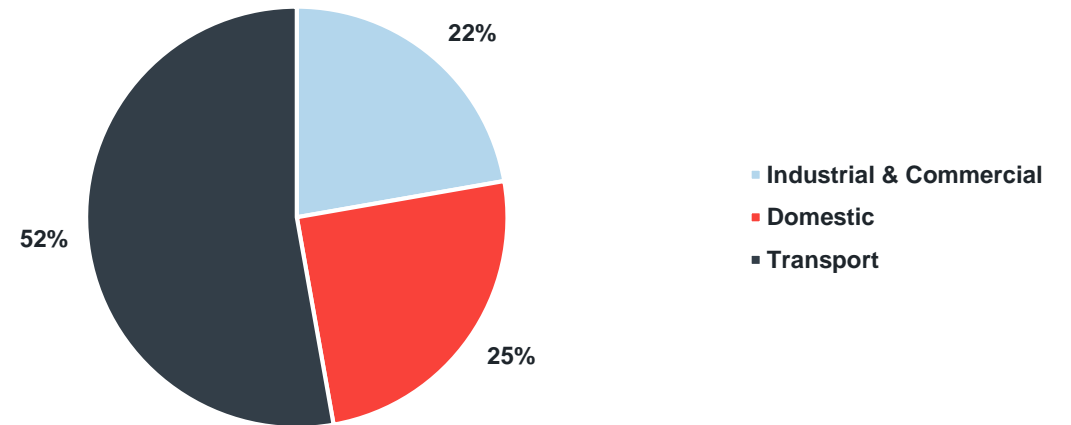
DISTRICT CARBON EMISSION BASELINE

Based on initial analysis of carbon emissions baseline:

- Petroleum has highest percentage by energy and GHG due to high transport usage.
- Remaining mostly with gas and electricity, evenly split.
- Transport is the dominant energy end use, taking 51%, the rest being evenly split between domestic and industrial & commercial.
- High transport emissions likely due to people travelling in and around the region, mainly by personal car.



Carbon Emissions Baseline - 2019 Sector Breakdown



ROADMAP TO CARBON NEUTRALITY TOOL MOCK-UP

Roadmap to Carbon Neutrality Tool

Version 1.0
Date: Jun-22
Developed by WSP UK

USER GUIDE

This Roadmap to Carbon Neutrality Tool has been developed by WSP Net Zero Cities Team for Winchester City Council to assess and model project options to achieve its goal to become a carbon neutral district by 2030, update the roadmap annually and feed into the annual review of the Winchester District Carbon Neutrality Action Plan.

- 1 Set-up** To start with, this section should records all data sources and emission factors to be used in calculations
- 2 Baseline** The second module of the tool, estimates the baseline of emissions from 2005 to 2050 using carbon and energy data publis
- 3 Interventions** This section is to select the actions to be estimated for scenario impact and will be split by sector; including domestic, con
- 4 Scenarios** This section is to forecast business as usual (BAU) and develop emissions scenarios that allow WCC to predict how emiss
- 5 Dashboard** This section summarises the GHG reduction on a trajectory to 2024, 2030, 2040 and 2050

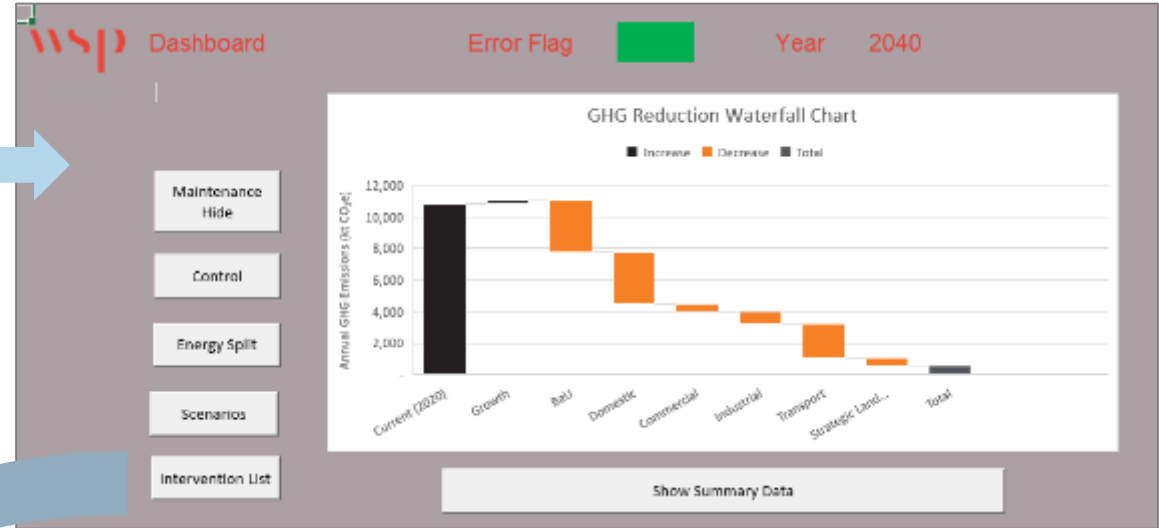
CONTACT

For any questions regarding this tool, please contact: WSP Net Zero Cities Team

DISCLAIMER

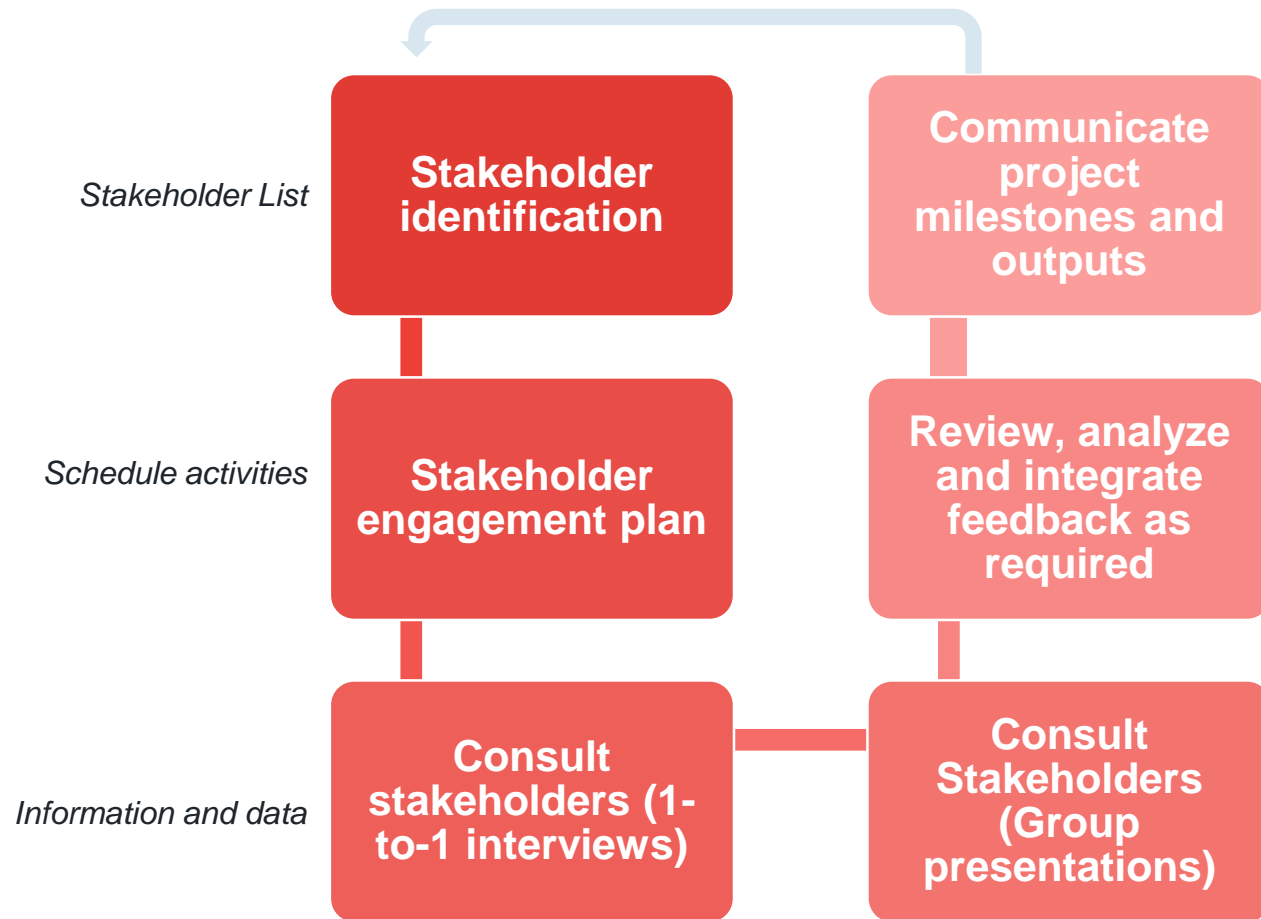
This model and any information contained within it has been prepared for Winchester City Council and strictly for the purpose of the Winchester Roadmap to Carbon Neutrality and has been developed by WSP based on certain data sources and assumptions. No third parties shall have a right to rely on the model without the written permission of WSP.

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| 3.3 – Enable retrofit of homes to achieve energy performance of C+ | | | | | |
|--|------|---|-------|--|--------------------------------|
| TIMESCALE | | INVESTMENT | | CARBON SAVING | |
| LONG | LONG | >£100m | £200m | 34 ktCO ₂ /annum | 25 ktCO ₂ /annum |
| POLITICAL | | COMMERCIAL | | TECHNICAL | |
| <ul style="list-style-type: none"> • Social housing within control - RSLs • Private property not in control and sensitive • Non-financial benefits would feed in and fuel poverty | | <ul style="list-style-type: none"> • Friends talk about right • Unlikely to be any return to investment by council • Private homes unlikely to see as value for money • Green Homes Grant could be catalyst, but very brief | | <ul style="list-style-type: none"> • Should be achievable on almost all homes • Important to make interventions that are "no regret" <ul style="list-style-type: none"> • No fossil fuel in heating • HQ fabric upgrades • Must not compromise health • Supply chain is tight | |

STAKEHOLDER ENGAGEMENT ACTIVITIES



ENGAGEMENT METHODS

Stakeholder engagement will primarily be undertaken through interviews, group meetings and information products (project one-pager and updates to be included in newsletters), which will be prepared by WSP.

1-to-1 interviews (up to 4 interviews)

- 45-minute interviews with key stakeholders to introduce the project and discuss their work to be included in roadmaps as well as:
 - What is being done today? Who, where? Mapping actions and plans
 - What resources are needed to deliver the net zero route map and action plan?
 - What's their vision for the Winchester District?
 - What are their priorities for the sustainable and economic development of the district?

Group presentation for key sectors (up to 2 meetings)

- 1-hour presentations to introduce the project and identify priorities and preferences for the climate actions to be included in the roadmap as well as suggestions for the tool
- A second group presentation for action prioritisation
- Grouped by common interest areas or sector

1-to-1 Interviews

| | |
|----------|---|
| Audience | Small groups of stakeholders. <i>Grouped by common interest areas.</i> |
| Activity | Discuss climate actions that can help mitigate GHG emissions |
| Duration | Multiple 1-hour sessions |
| Format | Virtual |



Group presentation

| | | |
|----------|--|--------------------------|
| Audience | All stakeholders. | CN Delivery Group |
| Activity | For first presentation, intro and priorities For second presentation, actions to prioritise | |
| Duration | 2x 1-hour sessions | |
| Format | Virtual supported by PPT/Potentially Miro | |



04

Next steps



NEXT STEPS

- *Stakeholder engagement interviews and workshops*
- *Action selection and prioritisation*
- *Draft roadmap and public-facing report*
- *Tool development and training sessions*
- *Project finalisation, confirm agreed outputs and handover*



Thank you

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