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About Sustrans

Sustrans is the charity making it easier for people to walk and cycle.

We are engineers and educators, experts and advocates. We connect people and places, create liveable neighbourhoods, transform the school run and deliver a happier, healthier commute.

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We make the case for walking and cycling by using robust evidence and showing what can be done.

We are grounded in communities and believe that grassroots support combined with political leadership drives real change, fast.

Join us on our journey. www.sustrans.org.uk

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Sustrans
2 Cathedral Square
College Green
Bristol
BS1 5DD

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The Role of \$FWLYH 7UDYHO in Improving Health.

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1. The impacts of poor air quality on human health

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1.2. How does air pollution damage health?

Air pollution is damaging our environment and our health. Up to 40,000 early deaths

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for 80% of the pollution where legal limits are being broken.²

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are often in areas with higher levels of pollution or near busy roads and
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5 H V H D U F K V K R Z V W K D W L P S U R Y H P H Q W V L Q D L U T X D O L W \ O H D G W
illness.⁵ \$ V W K H 5 R \ D O & R O O H J H R I 3 K \ V L F L D Q V K D V Q R W H G K R Z H Y H U
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S U R Y L G H V O H V V E H Q H \ A W I R U S X E O L F K H D O W K W K D Q I R F X V L Q J R Q
V X V W D L Q D E O H W U D Q V S R U W D F W L Y H W U D Y H O D Q G S X E O L F W U D Q
part of the journey).⁶ , W L V K R Z H Y H U L P S R U W D Q W W R U H D O L V H W K D W X Q O H
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2. The benefits of modal shift to sustainable transport for short trips

3. How can we encourage modal shift?

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7 R R O N L W 3 D U W , P S U R Y L Q J D L U T X D O L W \ E \ Z D O N L Q J D Q G F \ F O L C
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7UDQVSRUW IXQGHG 6XVWDLQDEOH 7UDYHO 7RZQV SURMHFW IRU
VLJQLÀFDQW VKLIW IURP FDU WR PRUH VXVWDLQDEOH PRGHV LQF
bus use.¹⁹



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HVWLWPDWHG WR GURS E\ PLFURJUDPV SHU P GXULQJ WKH WUI
 HVWLWPDWH WKDW WKLV UHGXFWRQ ZRXOG DYRLG SUHPDWXUH
 WKHVH ÀJXUHV ZLWK WUDIÀF DFFLGHQW GDWD WKH WRWDO QXPE
 DFFLGHQWV LQ WKH 6WRFNKROP UHJLRQ KDV DYHUDJHG DW SHU
 2008.

7KH VWXG\ GHPRQVWUDWHV WKDW HYHQ PRGHVW LPSURYHPHQWV
 KHDOWK EHQHÀWV DQG WKH UHVHDUFKHUV DUJXH WKDW LW LV L
 HVWLWPDWHV RI KHDOWK LPSDFWV LQ RUGHU WR MXVWLI\ DFWLRQ\

7KH 6WRFNKROP FLW\ FRQJHVWLRQ FKDUJH KDV QRZ EHFRPH SHU
 VXFFFVVIXO DQG SRSXODU HYHU\ \HDU \\$ QHZ VWXG\ VKRZV WKDW
 RI WKH FRQJHVWLRQ FKDUJH LQ RYHUDOO PRWRU WUDIÀF OH
 ZLWK QR ULVH LQ OHYHOV UHSRUWHG RQ URDGV MXVW RXWVL
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Low Emission Zones

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Case Study: The benefits of LEZs in Germany

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7DNHQ WRJHWKHU WKH VH HIIHFVW UHGXFH WKH TXDOLW\ RI OLIH XUEDQ DUHDV DQG WKH DWWUDFWLYHQHV RI FLWLHV IRU EXVLQH

7KUH DUH DOVR DGYDQWDJHV IRU SDUWLFLSDWLQJ UHWDLQHUV SURYLGH WKHP ZLWK KLJK YDOXH VHUYLFHV LQ DGGLWLRQ WR WK

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- UHGXFWLRQ LQ WKH QXPEHU RI YHKLFOHV UHTXLUHG WR GHOL WR WKH FLW\ FHQWUH VDYLQJ WLPH DQG PRQH\

Case study: Reducing freight impacts: Bristol Bath Urban Freight Consolidation Centre

An evaluation of the deliveries to Bristol City Centre from the Bristol Bath Urban Freight Consolidation Centre (BBUFCC) demonstrated a reduction of 74% of delivery trips in the city.

6LQFH EXVLQHVHV LQ %ULVWRO DQG %DWK KDYH EHHQ XVLQJ WR PDQDJH WKHLU GHOLYHULHV PRUH HIIHFVLYHO\ WKURXJK WKH VHUYLFH LV D SDUWQHUVKLS EHWZHHQ WKH FRXULHU VHUYLFH '+ %DWK DQG 1RUWK (DVW 6RPHUVHW & RXQFLO

Bristol Bath Urban Freight Consolidation Centre (sourced from Travelwest)

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- IRU HYHU\ +HDY\ *RRGV 9HKLFOH GHOLYHULHV WR WKH)UH

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& RQVROLGDWLRQ FHQWUH RQ FRQVROLGDWHG GLVWULEXWL
QHFHVVDU\ 7KLV HTXDWHV WR RI WKH GHOLYHU\ PRYHPHQ
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- GHOLYHULHV WR %DWK FLW\ FHQWUH IURP WKH %%8)&& VKRZHV
EHQHÀW IRU WKH IUHLJKW RSHUDWRUV LQ WHUPV RI IXHO FRV
- D KDOWK EHQHÀW WR WKH ZLGHU SXEOLF LQ WHUPV RI UHGXF

7KH %%8)&& KDV SURYHQ WR EH D VHUYLFH YDOXHG E\ LWV PRUH
KRZHYHU HQFRXUDJLQJ ZLGHU SDUWLFLSDWLRQ KDV UHTXLUGH V
UHVXOWV ,Q DGGLWLRQ WKH RSHUDWLRQ RI WKH %%8)&& UHTXLUGH

3.3 Improve

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2QH H[DPSOH LV WKH (XURSHDQ (&267\$5V VFKHPH

Case Study: Edinburgh ECOSTARS

The City of Edinburgh is using the ECOSTARS scheme to incentivise and support fleet operators in the city to improve environmental performance including air quality.

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5. References

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