

tool. This provides interpretation of the data and allows the asset owner to draw conclusions and make Provides a breakdown of the condition score of the asset management decisions. structures. This is based off BCI scores. Informs asset owner of a snapshot of the condition SAVI Carbon Dashboard breakdown across the network. Breakdown of structure types. Organisation Welsh Government Total CO2e of the stock Stock Gross Replacement Cost: Stock condition: Authority type: Overseeing (Trunk Road) Authority 2,083,171 T CO₂e **£**4,741,723,746 ■Very Good No. of Structures: 5140 Number of trees to offset Offset cost No. of Flements: 60241 51,773,327 £24,018,959 Summary of input ■Very Poor = Culverts Date data input 24/06/2021 Number of football pitches to offset Offset area structures and 12,175 **8,629** ha elements. High-level summary of the asset stock. Provides the asset owners Headers to simplify the dashboard. with a simple summary in one Stock summary place. GROSS REPLACEMENT COST PROPORTION IN COMPARISON WITH THE WHOLE STOCK GROSS REPLACEMENT COST [£] Retaining Wall (height ≤ 3m) 0.0% Retaining Wall (height ≤ 3m) Retaining Wall (height > 3m) 0.0% Retaining Wall (height > 3m) Culvert (single cell) Culvert (single cell) Culvert (multi-cell) = 0.5% Culvert (multi-cell) Bridge: Vehicular (single span) Vehicular (single span) Bridge: Vehicular (4 or more spans) Bridge: Vehicular (4 or more spans) Bridge: Vehicular (2 or 3 spans) Bridge: Vehicular (2 or 3 spans) 22.0% Bridge: Pedestrian/Cycle (single span) Bridge: Pedestrian/Cycle (single span) 0.4% Bridge: Pedestrian/Cycle (multi-span) 0.9% £1,401 M £1,681 M £1,961 M £281 M £561 M £841 M £1,121 M 20.0% 25.0% 30.0% 35.0% 40.0% Breakdown of Gross Replacement Cost (GRC) for structure types. Informs asset owners of the replacement cost across GRCF [T] different structure types to allocate annual budgets. Retaining Wall (height ≤ 3m) number of Total CO2e ing Wall (height > 3m) Structure type structures Bridge: Pedestrian/Cycle (multi-span) 18,753.65 £18,976,124 Bridge: Pedestrian/Cycle (single span) 7,827.12 £14,044,083 Cost proportion in 92.3% Bridge: Vehicular (2 or 3 spans) 711 459.265.02 £910.602.909 comparison with the whole stock Bridge: Vehicular (4 or more spans) 1240 750,812.13 £1,404,097,527 Bridge: Vehicular (single span) 712,758.45 £2,020,659,942 Culvert (multi-cell) 10,671.31 £6,779,475 123.083.09 £188.362.177 Culvert (single cell) Bridge: Pedestrian/Cycle (single span) 0.4% Retaining Wall (height > 3m) 0.00 £66.885.310 Bridge: Vehicular Retaining Wall Retaining Wall (height ≤ 3m) 0.00 £111,316,198 100.000 200.000 300.000 400.000 500.000 600.000 700.000 800.000 Cost of offsetting the CO2e breakdown across the structure types. CONDITION AND CO2 PER STRUCTURE TYPE CONDITION SCORES OF THE STOCK Condition Score SCIAv SCICrit Very Good 1510 1048 100% Good -80 2393 1430 90% Fair 1076 893 Retaining Wall 01 Poor 1435 80% ■ Very Poor Very Poor 334 877 T - 1.209 70% ■ Poor 32,845 T Fair 60% Trend 893 ■ Good 50% 40,887 T - 18,701 T ■ Very Good 947.380 1 353.847 T 40% 30% 234 T -20% 6.138 T Trend of BCI scores across 0% SCIAv SCICrit the condition bands. ■ Very Good ■ Good ■ Fair ■ Poor ■ Very Poor ■ CO2e [T] Very Good ■ CO2e [T] Good CO2e [T] Fair CO2e [T] Poor ■ CO2e [T] Very Poor Score Type Comparison of the condition of the structure stock vs. the Gross Replacement Carbon footprint (GRCf). Allows asset owners to understand the embodied carbon in the best and worst condition structures and prioritise funding accordingly.

This is an extract of the Carbon Dashboard. The dashboard is the front end interface of the calculation

