

Challenge Fund Toolkit

Scheme Name	Historic Bridge Maintenance Programme (Summary)
Scheme Promoter	Warwickshire County Council

Scheme Details

Scheme Opening Year	2021	#3 of #8	Appraisal period: 30 years
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If you are bidding for multiple schemes please fill out a proforma for each scheme. Blue indicates data needs to be added.

SCHEME COST (£1000s)

Financial Year	2019	2020	2021	2022	2023	Totals:
DfT Funding Sought	-	1,485	1,588	1,905	-	4,978
LA Contribution	-	395	422	505	-	1,322
Other Third Party Funding	-	-	-	-	-	-
Total	-	1,880	2,010	2,410	-	6,300

All Schemes

Input Data	Specific Data	Units	Other Supporting Data / Information (either input directly or provide reference to supporting information reported elsewhere)
Length of Scheme	1.83	(Km)	Total of Eight Proposed Bridge Sites and Highways extents effected
Number of vehicles on affected section (split by vehicle type if possible)	85801	(Total vehicles - AADT)	Route
			Cars
			HGV
			LGV
			PSV
			Total
			Speed kph
			A425
			A428
A3400			
B4085			
B4117			
C33			
C46			
C53			
Cars	72569	(Cars - AADT)	Breakdown per site shown above
LGV	9155	(LGV - AADT)	Breakdown per site shown above
HGV	3028	(HGV - AADT)	Breakdown per site shown above
PSV	1049	(PSV - AADT)	Breakdown per site shown above
Average Speed on Route	56	(Km/h)	Speed of routes taken as speed limit at bridge location (average for 8 sites)
Type of Road	Principle	(Motorway, Trunk, Principle or Minor)	Mixture of Principal and Minor Roads (3No A Roads, 2No B Roads, 3No C Roads)

Other salient information for the VfM Case	Bridge Name	NPV	BCR
	Castle Bridge	NPV £26,651,331	BCR 100+
	Bretford Bridge	NPV £722,667	BCR 10 - 19
	Clopton Bridge	NPV £377,239	BCR 10 - 19
	Bidford River Bridge	NPV £2,637,877	BCR 100+
	Cole End Bridge	NPV £825,311	BCR 20 - 49
	Bagington Mill	NPV £2,793,422	BCR 100+
	Binton Bridge South	NPV £4,230,369	BCR 100+
	Honington Bridge	NPV £725,237	BCR 50 - 99
	Total NPV for 8 Bridges	NPV £38,963,453	

Carriageways

SCANNER CATEGORY	Proportion of the road	Average RCI Number	Other Supporting Data / Information (either input directly or provide reference to supporting information reported elsewhere)
Red	20%	76.5125	Average of #8 sites
Amber	40%	40.125	Average of #8 sites
Green	40%	12.175	Average of #8 sites

Cycleways

Input Data	Specific Data	Units	Other Supporting Data / Information (either input directly or provide reference to supporting information reported elsewhere)
Number of Cyclists	-	Cyclists/day	Data not available

Diversion

Input Data	Data	Units	Other Supporting Data / Information (either input directly or provide reference to supporting information reported elsewhere)
Please give information about the diversion Route	Bridge	Diversion route	Distance
	Castle Bridge	A425,A452, M40, A46,A425	12
	Bretford Bridge	A428, A4071, A45, A46, A428	30
	Clopton Bridge	A3400, A4390 ,A3400	5
	Bidford River Bridge	B4035, B439, A46, B4035, B4085	24
	Cole End Bridge	B4117 B4114, A446, B4117	2
	Bagington Mill	C33, B4115, A45, A423, A445, C33	16
	Binton Bridge South	C46, B439, A4390, A3400, B4632, C104, C46	16
	Honington Bridge	C53, A3400, A429, C31,C109,C53	14
Length of any diversion route, if closure is required (over and above existing route)	119	km	Cumulative length of diversion routes (x 8No.)
Average extra time per vehicle on diversion route (over and above existing route)	145	mins	Cumulative time for all eight diversion routes

Bridges

Input Data	Specific Data	Units	Other Supporting Data / Information (either input directly or provide reference to supporting information reported elsewhere)
Please give information about any current or planned weight restriction	Bridge	Route	Weight Restrictions
	Castle Bridge	A425	Incremental weight restrictions leading to expected road closure in 5 to 10 years
	Bretford Bridge	A428	Incremental weight restrictions leading to expected road closure in 20 years
	Clopton Bridge	A3400	Incremental weight restrictions expected to be implemented within next 7 years
	Bidford River Bridge	B4085	Existing 10 T weight restriction, expected road closure in 12 years
	Cole End Bridge	B4117	Incremental weight restrictions leading to expected road closure in 20 years
	Bagington Mill	C33	Incremental weight restrictions leading to expected road closure in 5 years
	Binton Bridge South	C46	Existing 10 T weight restriction, expected road closure in 7 years
	Honington Bridge	C53	Incremental weight restrictions leading to expected road closure in 5 years
What year is this restriction due to come into place (if preexisting please put 2018)	2018-2024		Existing weight restrictions already in place on 2 structures, incremental weight restrictions would be applied over the next 5 years at other structures
Number of days per year the restriction is in effect	365		Existing weight restrictions are in place. Future weight restrictions on other sites would be permanent until repairs undertaken .
What vehicle class does the restriction apply to?			
Cars	No		May apply if bridge needs to be closed
LGV	Yes		Where existing weight restrictions are in place. May apply to other bridges further restrictions required
HGV	Yes		
PSV	Yes		Where existing weight restrictions are in place. May apply to other bridges further restrictions required

Flooding

Input Data	Specific Data	Units	Other Supporting Data / Information (either input directly or provide reference to supporting information reported elsewhere)
Number of closures due to flooding per year	-	(number of closures/year)	
(Average) Duration of closure due to flooding	-	(duration of closure - hrs)	