



DORSET

Local Enterprise Partnership

**BIG Programme –
Hurn Roundabout
Improvement**

End of Project Report

April 2020

Project Summary

This is the fourth scheme to be delivered as part of the programme of improvements to the B3073 between the Aviation Park site and Blackwater Junction on the A338. The Original proposals for a new, bigger roundabout were changed due to land acquisition issues and were replaced with a smaller revised scheme within the existing highway land. Whilst the revised scheme had less capacity than the original offline roundabout scheme it could be quickly delivered and provide quick returns on the investment. The original scheme was estimated to cost £2.4m to construct whilst the smaller scheme was considerably cheaper at £0.85M.

The revised scheme still delivered:

- Improved capacity and reduced queuing
- Improved cycle provisions
- Improved footpath links to local amenities

The works were coordinated with structural repairs to the adjacent footbridge allowing traffic management and supervision costs to be shared and avoiding the need for future traffic disruption.

The scheme required significant diversions to statutory undertakers' plant, they were designed to minimise the need for further alteration, should future demand require the original offline roundabout to be built.

Project start date	Jan 2018
Project construction start date	May 2018
Project completion date	December 2018

Outputs and Outcomes:

Outputs

- (i) Improve connectivity to wider transport network. – Achieved
- (ii) Alleviate traffic congestion and increase capacity in vicinity of Hurn Roundabout based on 2030 traffic model - Achieved
- (iii) Improve access to the airport to support job creation and help achieve overall BIG aims of creating 10,000 jobs in the airport area over a 10 year period – Ongoing in conjunction with outstanding improvements to Blackwater Interchange due to be completed in late Spring 2020
- (iv) Increase sustainable transport journeys across the junction by providing improved cycling and walking facilities. – Ongoing in conjunction with outstanding improvements to Blackwater Interchange due to be completed in late Spring 2020

(v) 0.2km of carriageway was resurfaced and 0.31km of new cycleway was provided

As the scheme was all within the existing highway boundary and did not involve opening up land within the project there is no direct leasing/commercial floorspace or buildings including housing realised. The full benefits of capacity of the roundabout improvement will not be realised until the Blackwater Interchange improvements are completed in late Spring 2020.

Outcomes

The Hurn roundabout scheme will contribute to the outcomes of the BIG Programme. The following outcomes have been achieved since April 2015.

Outcome	Number
Jobs at Aviation Business Park	1,125
Private investment leveraged at Aviation Business Park	£143,939,000
Land Unlocked (Ha) at Aviation Business Park	6.4
Commercial floorspace created at Aviation Business Park	37,577
Land Unlocked (Ha) at Wessex Fields	6.07

Whilst not delivering any specific outcomes within the scheme boundaries this improvement scheme will contribute to the outcomes of the Big Programme.

Outcomes continue to be monitored on a quarterly basis and reported to Department for Business, Energy and Industrial Strategy. Further analysis of these outcomes and benefits will feed into future reporting and case studies.



Before Roundabout Improvement (Sept 2017)



Following Completion (Oct 2018)

Benefits Realised to date

- Delivered on time and on budget.
- Improved vehicle movements around the roundabout, especially HGVs.
- Helping traffic flow through the junction.
- Improving walking and cycle links in the area, creating sustainable travel options for residents.

- These roundabout improvements – in addition to the work completed at Blackwater West Junction and Parley Cross, some congestion has been relieved on the B3073. Planned improvements on the Blackwater West Junction and Parley Cross will relieve further congestion and improve journey time reliability that will aid Dorset's economic growth.

Finances

- Original Budget including contribution from Bridge Maintenance £1,187,754.69
- Actual Cost £1,158,496.20
- The amount of match funding contributed £90,000 Bridge maintenance and £199,034.97 from the old roundabout scheme

Lessons Learnt

The temporary scaffold footbridge and combining the maintenance and improvements minimised costs and disruption.

The partnering relation worked very well to overcome the issues with late diversion of HV cables.

Removing and surfacing the splitter islands with selected night time works minimised traffic disruption on a busy junction.

Close liaison with adjacent landowners to regrade their land resulted in a cheaper and tidier scheme.

Success Story

Bournemouth Echo reported on the scheme in October 2018 and gathered the following endorsements:

Jim Stewart, chair of Dorset LEP, said: "We are really pleased to see the completion of another BIG Programme infrastructure investment on time and on budget. The improvements to Hurn roundabout are an important part of a series of economy-building upgrades along the busy B3073 corridor that will create better traffic flow, particularly for local businesses around Bournemouth Airport and Aviation Business Park."

Councillor Andrew Parry, Dorset County Council cabinet member for economic growth, education, learning and skills, said: "Our work at Hurn Roundabout has been extremely complex due to the high number of utilities that have needed to be diverted away from the new alignment. It is to the credit of the team that this challenging project, through careful management has been completed within budget."

“Our work is continuing, with partners, to improve infrastructure on the busy B3073 corridor to reduce congestion and improve journey time reliability to aid Dorset's economic growth.

“I appreciate there has been considerable pressure on the road network whilst this work has been carried out. I would like to thank drivers for their continued patience with ongoing construction in this area and keep in mind the anticipated longer-term benefits that these multiple projects will bring.”

Annex 1

Scheme: Hurn Roundabout WORKS COMPLETE 29/09/18	Description	FY 19/20		FY 20/21 Projection	FY 21/22 Projection	FY 22/23 Projection	FY 23/24 Projection	FY 24/25 Projection	Total
		Projection	Current Year						
	Length of Road Resurfaced This Length of road for which maintenance works have been completed this quarter (km).		0.2						
	Length of Newly Built Road this Length of road for which works have been completed and now open for public use (this quarter) (km).		0						
	New Cycle Ways Length of cycle way for which works have been completed and now open for public use (km).		0.31						