



Blakestown Level Crossing Assessment Option 1 **Parameter** Criteria Sub-Criteria (Quantitative/ Qualitative) Do Nothing Do Minimum Closure of the existing crossings with no alternative Proposed Pedestrian and Cycle Bridge with nested provided. All traffic would be diverted to alternative Leave the current level crossings in place. routes around the crossing location. Significant comparative advantage over other Significant comparative advantage over other Significant comparative disadvantage over other options options Construction costs of this option will be comparative Assessment of cost of construction of option, land costs, to other options as the provision of a pedestrian cycle 1.1 Construction and Land Cost The level crossing is currently under CCTV control. To acquisition costs and temporary works Cost of removing crossing is low in comparison to bridge within the canal environs will require significant maintain the level crossing, the furniture and signalling provision of road crossing. temporary and permanent works. The cost to acquire associate with it will need replacement land will be lower than other options providing full access ignificant comparative disadvantage over other Significant comparative advantage over other Significant comparative advantage over other Ongoing annual maintenance costs associated with varied 1.2 Long Term Maintenance costs 1 Economy An overbridge would increase decrease maintenance options moving them The closure of the level crossing would remove the The do-nothing scenario would maintain the existing requirements and operating costs over a level maintenance costs of the level crossing. maintenance requirement of the level crossing. crossing. Some comparative disadvantage over other Some comparative advantage over other options Some comparative advantage over other options Traffic Functionality /economic Benefits to vehicular traffic through reduction in journey time 1.3 benefit lengths and delays through removal of level crossings. Existing connectivity maintained but with reduced Displacement of traffic onto alternative routes; Displacement of traffic onto alternative routes: Consideration of potentially longer routes for traffic. capacity as train frequencies increase; resulting in increase in journey times for local residents. increase in journey times for local residents. increase in journey times for local residents. Some comparative disadvantage over other Some comparative disadvantage over other Some comparative advantage over other options Impact on scope for and ease of interchange between options modes. Impact on the operation of other transport services both during construction and in operation. New interchange Transport Integration Existing connectivity maintained, albeit with increased 2.1 nodes and facilities: Reduced walking and wait times Reduction in local permeability. Reduced access to disruption from increased train frequencies. There is Reduction in local permeability. Access to Royal associated with interchanges. Modal shift figures during no cycle route proposed on Blakestown Road in the Royal Canal Cycle Route. Canal Cycle Route maintained construction and operations. Changes to journey times to GDA Cycle Network Plan. transport nodes.





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	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Do Nothing	Do Minimum	Option 1	
					Some comparative disadvantage over other options	Some comparative advantage over other options	Some comparative advantage over other options	
2	Integration	2.2	Land Use Integration	Impact on land use strategies and local plans. Assessment of support for land use factors local land use and planning. Inclusion of project in relevant local planning documents.	Would not support KCDP Transport Objective PT07 which seeks to promote and support the upgrading of the Maynooth Rail line. Leixlip LAP 2020-2023 recognises the level crossings will be required to be removed therefore this option would not support these objectives or the DART Expansion project.	Supports the KCDP 2017-2023 particularly Movement and transport objective PT07 KCDP Transport Objective PT07 which seeks to promote and support the upgrading of the Maynooth Rail line Leixlip LAP 2020-2023 recognises the level crossings will be required to be removed. Collinstown Masterplan is to be developed. The future Masterplan is required to include the associated transportation studies. Therefore, based on existing land use patterns and the existing policy context (in support of DART Exp), neither the closure of the level crossing or the provision of pedestrian access at the level crossing is likely to significantly influence this comparative assessment in terms of planning/ integration factors at this stage in the assessment.	Supports the KCDP 2017-2023 particularly Movement and transport objective PT07 KCDP Transport Objective PT07 which seeks to promote and support the upgrading of the Maynooth Rail line Leixlip LAP 2020-2023 recognises the level crossings will be required to be removed. Collinstown Masterplan is to be developed. The future Masterplan is required to include the associated transportation studies. Therefore, based on existing land use patterns and the existing policy context (in support of DART Exp), neither the closure of the level crossing or the provision of pedestrian access at the level crossing is likely to significantly influence this comparative assessment in terms of planning/ integration factors at this stage in the assessment.	
				Alternative level crossing options are mostly neutral in	Comparable to other options	Comparable to other options	Comparable to other options	
		2.3	Geographical Integration	respect of Geographical Integration due to localised nature of the level crossings. As a consequence all options are rated comparable to one another.	No impact on Geographical Integration	No impact on Geographical Integration	No impact on Geographical Integration	
		2.4	Other Government Policy Integration	Integration with the other Government policy such as the NPF and RSES.	Some comparative disadvantage over other options	Some comparative advantage over other options	Some comparative advantage over other options	
					This option would not support the delivery of the higher level national and regional planning policies regarding the DART Expansion programme (NPF-(NS04), RSES & GDA Transport Strategy).	This option would support the delivery of the higher level national and regional planning policies regarding the DART Expansion programme (NPF- (NS04), RSES & GDA Transport Strategy). However would not meet Smarter Travel policy.	This option would support the delivery of the higher level national and regional planning policies regarding the DART Expansion programme (NPF- (NS04), RSES & GDA Transport Strategy). However would not meet Smarter Travel policy.	
		3.1		Estimated number of sensitive properties within 100m of the	Comparable to other options	Comparable to other options	Comparable to other options	
			Noise and Vibration	works. Options closer to more sensitive locations will have an increased risk of generating a noise impact. However, qualative criteria are also used where necessary to differentiate between the options.	No significant impacts predicted at this stage.	Removes vehicle traffic emissions. Likely to have some short-term construction impacts.	Removes vehicle traffic emissions Likely to have some short term construction impacts.	
			2 Air Quality and Climate	Local air quality effects. No of number of receptors within 50m.	Some comparative advantage over other options	Some comparative disadvantage over other options	Some comparative disadvantage over other options	
		3.2			No significant impacts predicted at this stage.	Removes vehicle traffic therefore requiring longer trips on alternative routes for some traffic, however removes localised traffic impacts. Some short-term construction impacts.	Removes vehicle traffic therefore requiring longer trips on alternative routes for some traffic, however removes localised traffic impacts. Some short-term construction impacts.	
		3.3		Key landscape characteristics affected; Impact on landscape	Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative disadvantage over other options	
			Landscape and Visual (including light)	character; Impacts on landscape features, protected landscapes. Key visual characteristics affected; Impacts on properties, amenities, protected views, key views.	No impact on existing landscape or visual characteristics.	Loss of local connectivity. Minimal impact on existing landscape or visual characteristics - no likely significant landscape or visual impacts.	Significant visual impact on setting of 13th Lock / Deey Bridge (a protected structure and protected view in Kildare Development Plan) and on residential property north of lock.	





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				,	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative disadvantage over other
	Environment	3.4	Biodiversity (flora and fauna)	Potential compliance/conflict with biodiversity objectives; Indirect impacts on protected species, designated sites; Overall effect on nature conservation resource.	No direct impacts.	No direct impacts.	River Tolka Estuary SPA. No risk of LSE. Potential impacts to Royal Canal pNHA arising from the construction of new pedestrian bridge.
				Overall effect on cultural, archaeological and architecture heritage resource. Likely effects on RPS, National Monuments, SMRs, Conservation areas, etc. Number of designated sites/structures (by level of designation) directly impacted by scheme (landtake)	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative disadvantage over other options
3		3.5	Cultural, Archaeological and Architectural Heritage		No direct impacts.	No direct impacts likely positive effects to Deey bridge and 13th Lock due to removal of traffic.	Potential indirect impacts on Deey Bridge (and Lock) (RPS No. B06-14). Potential to encounter unknown archaeological deposits that may survive in undeveloped areas.
				Overall potential significant effects on water resource	Some comparative disadvantage over other options	Some comparative advantage over other options	Some comparative disadvantage over other options
		3.6	Water Resources	attributes likely to be affected during construction and operation.	Potential negative impact on surface water quality during operational phase. Has some comparative disadvantage over other options.	Removes vehicular traffic borne pollutants. Minimal construction phase impacts are likely. Some comparative advantages over other options.	Potential negative impact on surface and groundwater quality during construction phase.
				Overall impact on land take & property. Number of properties to be impacted/acquired. Likely temporary or permanent severance effects, etc.	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative disadvantage over other options
		3.7	Agriculture and Non-Agricultural		There is no impact on agricultural or non-agricultural property.	There is no impact on agricultural or non-agricultural property.	There will be a limited direct impact on both agricultural and non-agricultural property. There is no impact on access to lands though there will be increased travel for vehicular journeys to / from R148.
		3.8	Geology and Soils (including Waste)	Soils and Geology and likely impact on geological resources based on preliminary/likely construction details. Soil resources to be developed/removed. Existing information relating to potential to encounter contaminated land. Highlevel assessment based on the likely structures/ works required and the potential for ground contamination due to historic landfills, pits and quarries.	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative disadvantage over other options
					No significant direct impacts.	No significant direct impacts.	No significant direct impacts as minimal earthworks are required.
		3.9	Radiation and Stray Current	Overall likely impact on existing sources of electromagnetic radiation.	Some comparative advantage over other options	Some comparative advantage over other options	Some comparative disadvantage over other options
					No change from an EMI perspective therefore advantage over other options.	No change from an EMI perspective therefore advantage over other options.	It is assumed that the routing of the cabling, the location of existing substations, hubs etc. along the line will be changed or impacted by the selection of any of the options over the entire project. All Do-Something options are comparable from an EMI perspective at this stage in the assessment.
			4.1 Impact on Vulnerable Groups		Some comparative disadvantage over other options	Some comparative disadvantage over other options	Some comparative advantage over other options
		4.1 Impact (With the level crossing becoming effectively closed on implementation of the proposed working timetable and with no provision for supplementary infrastructure for vulnerable groups, the majority of users will be diverted onto the adjacent road network.	With the level crossing closed on implementation of the proposed working timetable and with no provision for supplementary infrastructure for vulnerable groups, the majority of users will be diverted onto the adjacent road network.	Provision of a pedestrian / cycle bridge addresses any local disruption caused by closing the level crossing. Usage is, however low.
					This relates to a small number of uses of the level crossing	This relates to a small number of uses of the level crossing	Osage is, nowever low.





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	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Do Nothing	Do Minimum	Option 1
	Accessibility & Social inclusion		Stations Accessibility	Quantification of increased service levels to the vulnerable groups.	Comparable to other options	Comparable to other options	Comparable to other options
4		4.2			It is considered that alterations at Blakestown will not significantly affect access to stations in the locality	It is considered that alterations at Blakestown will not significantly affect access to stations in the locality	It is considered that alterations at Blakestown will not significantly affect access to stations in the locality
					Comparable to other options	Comparable to other options	Comparable to other options
					Cross Railway journey = nil as crossing remains in place; Inaccessible when crossing is closed.	Cross Railway journey = nil as crossing remains in place; Inaccessible when crossing is closed.	Cross Railway journey = nil as crossing remains in place; Inaccessible when crossing is closed.
		4.3	Social Inclusion		Diversion for cars, pedestrians and cyclists when level crossing closed 0.7km to ease, 1.6km to west.	Diversion for cars, pedestrians and cyclists when level crossing closed 0.7km to ease, 1.6km to west.	Diversion for cars, pedestrians and cyclists when level crossing closed 0.7km to ease, 1.6km to west.
					The principal affected amenities in the vicinity of the level crossing include JM Motors south of the railway, the Business Barn, Intel and Jones Engineering Group, north of the railway	The principal affected amenities in the vicinity of the level crossing include JM Motors south of the railway, the Business Barn, Intel and Jones Engineering Group, north of the railway	The principal affected amenities in the vicinity of the level crossing include JM Motors south of the railway, the Business Barn, Intel and Jones Engineering Group, north of the railway
	Safety	5.1	Rail Safety	Safety for Rail users – removal of LC positive in this respect	Significant comparative disadvantage over other options	Significant comparative advantage over other options	Significant comparative advantage over other options
					This Option leaves the railway level crossing in place, a characteristic which is considered negative from the perspective of railway safety.	This option removes the railway level crossing, a characteristic which is considered positive from the perspective of railway safety.	This option removes the railway level crossing, a characteristic which is considered positive from the perspective of railway safety.
					This option will require construction activity associated with signalling along the live railway associated with the level crossing	There is no significant construction activity along the railway associated with the level crossing	There is no significant construction activity along the railway associated with the level crossing
		5.2	Vehicular Traffic Safety	Quality of Access for these road users, lengths of diversions, removal of interface with rail and other modes of transport	Comparable to other options	Comparable to other options	Comparable to other options
5					Effective Closure of the level crossing with no replacement infrastructure will divert traffic onto the local road network resulting in diversions of between 0.7km and 1.6km. These are considered incidental for road traffic	Closing the level crossing with no replacement infrastructure will divert traffic onto the local road network resulting in diversions of between 0.7km and 1.6km. These are considered incidental for road traffic	Closing the level crossing with no replacement infrastructure will divert traffic onto the local road network resulting in diversions of between 0.7km and 1.6km. These are considered incidental for road traffic
			5.3 Pedestrian, Cyclist and Vulnerable Road user Safety	Quality of Access for these road users. removal of interfaces	Some comparative disadvantage over other options	Some comparative disadvantage over other options	Some comparative advantage over other options
		5.3			This option effectively results in pedestrians, cyclists and vulnerable road users onto the local road network. If the railway remains open, interface issues remain. The low level of usage and rural setting is noted	No cycle tracks on the immediately surrounding road network, but the closure of the level crossing would reduce access to the Royal Canal Greenway. See also Transport Integration above.	Original Distance from access to farm to R148 junction 270m retained.





replacement.

The principal affected amenities in the vicinity of the

level crossing include the Royal canal north of the level crossing. Removal of the level crossing will require detour for access.

DART+ WEST - MCA Stage 1								
Blakestown Level Crossing Assessment								
	Parameter		Criteria	Sub-Criteria (Quantitative/ Qualitative)	Do Nothing	Do Minimum	Option 1	
					Some comparative disadvantage over other options	Some comparative disadvantage over other options	Some comparative advantage over other options	
		6.1	Connectivity to adjoining cycling facilities	Analysis of the extent that the scheme connects with cycle tracks.	No cycle tracks currently present on the immediately surrounding road network, but increased closures of the level crossing would reduce access to the Royal Canal Greenway. See also Transport Integration above.	No cycle tracks on the immediately surrounding road network, but the closure of the level crossing would reduce access to the Royal Canal Greenway. See also Transport Integration above.	Severance overcome by provision of direct replacement.	
					Some comparative disadvantage over other options	Some comparative disadvantage over other options	Some comparative advantage over other options	
6	Physical Activity	6.2	Permeability and local access opportunity	Journey Time and lengths of diversions for active modes and numbers affected. Analysis of the connectivity between level crossing and green areas/key attractions related to	Diversion for cars, pedestrians and cyclists when level	Cross Railway journey = nil as crossing remains in place; Inaccessible when crossing is closed. Diversion for cars, pedestrians and cyclists when level crossing closed 0.6km East and 1.6km West	Severance overcome by provision of direct	

The principal affected amenities in the vicinity of the level crossing include the Royal canal north of the

level crossing. Removal of the level crossing will

require detour for access.

active mode

	Criteria	Do Nothing	Do Minimum	Option 1
1	Economy	Significant comparative disadvantage over other options	Significant comparative advantage over other options	Some comparative disadvantage over other options
2	Integration	Some comparative disadvantage over other options	Some comparative advantage over other options	Some comparative advantage over other options
3	Environment	Significant comparative advantage over other options	Significant comparative advantage over other options	Significant comparative disadvantage over other options
4	Accessibility and social inclusion	Some comparative disadvantage over other options	Some comparative disadvantage over other options	Some comparative advantage over other options
5	Safety	Significant comparative disadvantage over other options	Some comparative advantage over other options	Significant comparative advantage over other options
6	Physical Activity	Significant comparative disadvantage over other options	Significant comparative disadvantage over other options	Significant comparative advantage over other options
	Progress To Stage 2	No	Yes	Yes