

Appendix E. Economic Appraisal

Simple Appraisal Tool - PAG Unit 12



Part A - Overview

Date
Version No.

Project Title	N53 Hackballscross to Rassan [Green Route]
Project Description	Road improvement scheme for approx. 3km of the existing N53 National Secondary Road in Co. Louth.
PRS Reference Number	
Project Phase	Phase 2: Option Selection
National Roads Office	Westmeath
TII Project Manager	Ambrose Clarke
Appraisal Team Author	Atkins
Design Team Reviewer	WNRO / Atkins
TII Engineering Inspector	Patrick Duffy
External Auditor	

Part B: Scheme Information

Simple Appraisal Tool - PAG Unit 12



Part B - Scheme Information

Region	Border
Existing Route Length (km)	2.89
New Route Length (km)	2.992
Scheme Opening Year	2023
Existing Route Standard	2 Lane Single Carriageway
New Route Standard	2 Lane Single Carriageway
Appraisal Period (years)	30
Residual Period (years)	30

Link Count Data

Observed AADT (vehicles)	8564
Year of Observed AADT	2019

Part C: Scheme Costs

Simple Appraisal Tool - PAG Unit 12



Part D - Target Performance

Existing Average Speed, no decimal points (integer only)

Forecast Average Speed, no decimal points (integer only)

Part E: Projected Benefits

Simple Appraisal Tool - PAG Unit 12



Part E - Projected Benefits

Appraisal Period (Years)	30
Journey Time Benefits (€ Million)	€ 10.72
Vehicle Operating Costs Benefits (€ Million)	-€ 1.22
Present Value Benefits, PVB (€ Million)	€ 9.50
Present Value Costs, PVC (€ Million)	€ 10.24
Net Present Value (NPV)	-€ 0.74
Benefit to Cost Ratio (BCR)	0.93

Residual Benefits	€ 5.11
Benefit to Cost Ratio (including Residual Benefits - if applicable)	1.43

Design Year AADT	9,937
------------------	-------

Simple Appraisal Tool - PAG Unit 12



Part A - Overview

Date
Version No.

Project Title	N53 Hackballscross to Rassan [Blue Route]
Project Description	Road improvement scheme for approx. 3km of the existing N53 National Secondary Road in Co. Louth.
PRS Reference Number	
Project Phase	Phase 2: Option Selection
National Roads Office	Westmeath
TII Project Manager	Ambrose Clarke
Appraisal Team Author	Atkins
Design Team Reviewer	WNRO / Atkins
TII Engineering Inspector	Patrick Duffy
External Auditor	

Part B: Scheme Information

Simple Appraisal Tool - PAG Unit 12



Part B - Scheme Information

Region	Border
Existing Route Length (km)	2.88
New Route Length (km)	2.99
Scheme Opening Year	2023
Existing Route Standard	2 Lane Single Carriageway
New Route Standard	2 Lane Single Carriageway
Appraisal Period (years)	30
Residual Period (years)	30

Link Count Data

Observed AADT (vehicles)	8564
Year of Observed AADT	2019

Part C: Scheme Costs

Simple Appraisal Tool - PAG Unit 12



Part D - Target Performance

Existing Average Speed, no decimal points (integer only)

Forecast Average Speed, no decimal points (integer only)

Part E: Projected Benefits

Simple Appraisal Tool - PAG Unit 12



Part E - Projected Benefits

Appraisal Period (Years)	30
Journey Time Benefits (€ Million)	€ 10.56
Vehicle Operating Costs Benefits (€ Million)	-€ 1.27
Present Value Benefits, PVB (€ Million)	€ 9.29
Present Value Costs, PVC (€ Million)	€ 10.66
Net Present Value (NPV)	-€ 1.37
Benefit to Cost Ratio (BCR)	0.87

Residual Benefits	€ 5.02
Benefit to Cost Ratio (including Residual Benefits - if applicable)	1.34

Design Year AADT	9,937
------------------	-------

Simple Appraisal Tool - PAG Unit 12



Part A - Overview

Date
Version No.

Project Title	N53 Hackballscross to Rassan [Purple Route]
Project Description	Road improvement scheme for approx. 3km of the existing N53 National Secondary Road in Co. Louth.
PRS Reference Number	
Project Phase	Phase 2: Option Selection
National Roads Office	Westmeath
TII Project Manager	Ambrose Clarke
Appraisal Team Author	Atkins
Design Team Reviewer	WNRO / Atkins
TII Engineering Inspector	Patrick Duffy
External Auditor	

Part B: Scheme Information

Simple Appraisal Tool - PAG Unit 12



Part B - Scheme Information

Region	Border
Existing Route Length (km)	3.23
New Route Length (km)	3.34
Scheme Opening Year	2023
Existing Route Standard	2 Lane Single Carriageway
New Route Standard	2 Lane Single Carriageway
Appraisal Period (years)	30
Residual Period (years)	30

Link Count Data

Observed AADT (vehicles)	8564
Year of Observed AADT	2019

Part C: Scheme Costs

Simple Appraisal Tool - PAG Unit 12



Part D - Target Performance

Existing Average Speed, no decimal points (integer only)

Forecast Average Speed, no decimal points (integer only)

Part E: Projected Benefits

Simple Appraisal Tool - PAG Unit 12



Part E - Projected Benefits

Appraisal Period (Years)	30
Journey Time Benefits (€ Million)	€ 12.03
Vehicle Operating Costs Benefits (€ Million)	-€ 1.33
Present Value Benefits, PVB (€ Million)	€ 10.70
Present Value Costs, PVC (€ Million)	€ 10.39
Net Present Value (NPV)	€ 0.31
Benefit to Cost Ratio (BCR)	1.03

Residual Benefits	€ 5.74
Benefit to Cost Ratio (including Residual Benefits - if applicable)	1.58

Design Year AADT	9,937
------------------	-------

Simple Appraisal Tool - PAG Unit 12



Part A - Overview

Date
Version No.

Project Title	N53 Hackballscross to Rassan [Brown Route]
Project Description	Road improvement scheme for approx. 3km of the existing N53 National Secondary Road in Co. Louth.
PRS Reference Number	
Project Phase	Phase 2: Option Selection
National Roads Office	Westmeath
TII Project Manager	Ambrose Clarke
Appraisal Team Author	Atkins
Design Team Reviewer	WNRO / Atkins
TII Engineering Inspector	Patrick Duffy
External Auditor	

Part B: Scheme Information

Simple Appraisal Tool - PAG Unit 12



Part B - Scheme Information

Region	Border
Existing Route Length (km)	3.23
New Route Length (km)	3.35
Scheme Opening Year	2023
Existing Route Standard	2 Lane Single Carriageway
New Route Standard	2 Lane Single Carriageway
Appraisal Period (years)	30
Residual Period (years)	30

Link Count Data

Observed AADT (vehicles)	8564
Year of Observed AADT	2019

Part C: Scheme Costs

Simple Appraisal Tool - PAG Unit 12



Part D - Target Performance

Existing Average Speed, no decimal points (integer only)

Forecast Average Speed, no decimal points (integer only)

Part E: Projected Benefits

Simple Appraisal Tool - PAG Unit 12



Part E - Projected Benefits

Appraisal Period (Years)	30
Journey Time Benefits (€ Million)	€ 11.89
Vehicle Operating Costs Benefits (€ Million)	-€ 1.40
Present Value Benefits, PVB (€ Million)	€ 10.49
Present Value Costs, PVC (€ Million)	€ 10.73
Net Present Value (NPV)	-€ 0.24
Benefit to Cost Ratio (BCR)	0.98

Residual Benefits	€ 5.66
Benefit to Cost Ratio (including Residual Benefits - if applicable)	1.51

Design Year AADT	9,937
------------------	-------

Simple Appraisal Tool - PAG Unit 12



Part A - Overview

Date
Version No.

Project Title	N53 Hackballscross to Rassan [Red Route]
Project Description	Road improvement scheme for approx. 3km of the existing N53 National Secondary Road in Co. Louth.
PRS Reference Number	
Project Phase	Phase 2: Option Selection
National Roads Office	Westmeath
TII Project Manager	Ambrose Clarke
Appraisal Team Author	Atkins
Design Team Reviewer	WNRO / Atkins
TII Engineering Inspector	Patrick Duffy
External Auditor	

Part B: Scheme Information

Simple Appraisal Tool - PAG Unit 12



Part B - Scheme Information

Region	Border
Existing Route Length (km)	2.89
New Route Length (km)	3.062
Scheme Opening Year	2023
Existing Route Standard	2 Lane Single Carriageway
New Route Standard	2 Lane Single Carriageway
Appraisal Period (years)	30
Residual Period (years)	30

Link Count Data

Observed AADT (vehicles)	8564
Year of Observed AADT	2019

Part C: Scheme Costs

Simple Appraisal Tool - PAG Unit 12



Part D - Target Performance

Existing Average Speed, no decimal points (integer only)

Forecast Average Speed, no decimal points (integer only)

Part E: Projected Benefits

Simple Appraisal Tool - PAG Unit 12



Part E - Projected Benefits

Appraisal Period (Years)	30
Journey Time Benefits (€ Million)	€ 9.73
Vehicle Operating Costs Benefits (€ Million)	-€ 1.69
Present Value Benefits, PVB (€ Million)	€ 8.04
Present Value Costs, PVC (€ Million)	€ 9.66
Net Present Value (NPV)	-€ 1.61
Benefit to Cost Ratio (BCR)	0.83

Residual Benefits	€ 4.49
Benefit to Cost Ratio (including Residual Benefits - if applicable)	1.30

Design Year AADT	9,937
------------------	-------