

Pathways Forward Works Plan 2026-2036

Projects Listing



Document Control		Shire of Serpentine Jarrahdale				
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1	May 2025	Draft to Director	JK	Infrastructure Director	NS	
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EXECU	TIVE SUMMARY	4
Plan visi	on and objectives	4
Asset Da	nta & Condition Analysis	5
Level of	Service and Risk Management	5
Financia	l Analysis	5
1. IN	TRODUCTION	6
1.1. E	Background	6
1.1.1.	Council Plan 2023-2033	6
1.1.2.	Paths Asset Management Plan Version 5, January 2019	7
1.1.3.	Shire of Serpentine Jarrahdale Local Trail Plan, October 2019	8
1.1.4.	, , ,	
1.1.5.	, , ,	
1.1.6.	Footpath Condition Survey 2023	10
2. MI	ETHODOLOGY	11
	ROJECT IDENTIFICATION AND PRIORITIES	
		44
3.1 F	Path Condition Grading and infrastructure renewal needs	11
3.2.	WCP – Implementation Program - Shire incomplete Projects	13
3.3. I	Identification of key missing links	16
3.4 I	Financial Capacity	18
4. LE	EVEL OF SERVICE AND RISK MANAGEMENT	18
4.1. I	Level of Service	18
4.2. I	Risk Management	19
5. MO	ONITORING	19
6. AP	PPENDICES	20
_	1 Copy of WCP Figure 1: Proposed Ultimate Network inserted from the Walking and Cycling P the key recommendations for Shire path network	
Figure 3.	.2 - 2020 Walking and Cycling Plan – Implementation Program	27
Figure 4.	1 – Shire of Serpentine Jarrahdale 2022 Community Perception Survey results	28
Figure 4.	2 – Shire of Serpentine Jarrahdale 2022 Community Perception Survey results	29
Figure 4.	.3 - Shire of Serpentine Jarrahdale Asset Management Strategy Risk Register	32

EXECUTIVE SUMMARY

Whilst the Shire of Serpentine Jarrahdale area is vast, it remains an attractive area for walking and cycling, with its quiet residential streets, locals hills and forest and the Scarp with Serpentine and Wungong Gorges being the notable landscape features. However, the local walking network in the Shire of Serpentine Jarrahdale area has a lot more potential.

The Shire maintains 177 kilometers of pathways with a replacement cost of \$30,834,296 as of 30th June 2024. The 10 year Long Term Financial Plan (LTFP) has allocated funds of \$55,000 per year from 2025/26 for Capital path works.

The Shire 2020 Walking and Cycling Plan (WCP) sets out an interim and long-term aspirational walking and cycling network for the Shire and includes an implementation program for individual projects that will support the realisation of the Plan's vision and objectives. The entire strategy and path alignment generally follows the Department of Transport's Perth and Peel Long Term Cycle Network Plan.

The implementation program of the 2020 WCP lists each individual path link contained within the plan by locality. Each link is identified by location, category, timing, responsible agency, path distance and cost estimate.

Most of the strategic improvements identified in the Path Asset Management Plan, Version 5 (AM Plan) and 2020 Walking and Cycling Plan are underway and will likely be completed beyond 2030. Further improvements have been identified that will enhance future revisions of the plan and provide greater financial alignment with the LTFP.

The Pathways Forward Works Plan (PFWP) covers the 2026 - 2036 year period and includes the footpaths more than 10-year-old inspected in 2023, incomplete Shire funded projects included in WCP 2020, and new proposed missing links within the Shire. The condition ratings were established as a result of the footpath network assessment completed in the 2023.

The condition assessment was measured using the Western Australia Local Government Association's (WALGA) 1-5 path grading system with condition grading 1 to 2 being Very Good to Good, 3 being Fair and 4 to 5 being Poor to Very Poor respectively.

The Footpath condition audit completed in 2023 only included footpath assets older than 10 years old at that time. These paths will again be audited along with additional older than 10-year-old paths in 2026/27 in accordance with the Asset Management Strategy timeframes.

Also, several roads have been identified that do not have paths. These paths need to be considered and prioritised so that additional path infrastructure is developed to fill any missing links in the path network and to connect various key destinations.

Plan vision and objectives

The PFWP has been developed to align with the Shire's broad strategic vision, as set out in the Shire's Serpentine Jarrahdale 2050 document and Shire's Council Plan 2017/27, and community expectations as determined through community consultation for the additional path infrastructure to complete any missing links in the path network.

The PFWP is a program of footpath capital projects anticipated to be undertaken by the Shire in the future. The plan will be reviewed on a 2 yearly basis and has been developed based on the following principles:

- The Shire has considered the renewal of footpath assets and will ensure they are maintained in good condition in the future.
- The amount of funding the Council allocates to Capital Works is based on what the Council can afford and is sustainable in the future.
- Planning for new footpath assets in alignment with the needs of the Shire and the Council's capacity to construct identified missing links and additional treatment to improve the connectivity and safety of the infrastructure

The PFWP will guide the Infrastructure Service Directorate to continuously improve services provided, establishing best practice strategic and operational asset management methodologies across people, processes and systems.

Asset Data & Condition Analysis

The key messages from the PFWP are summarised below:

- 93.3% of the Shire's inspected footpath network is in good condition, rated as either a 1 or a 2. (Very Good or Good).
- 4.6% of inspected footpath surface have reached the renewal intervention level of condition 3 (Fair).
- The higher risk rated footpath assets 2.2% (condition 4 & 5), have mostly been completed by Shire Operations Maintenance Department.
- Footpath sites which are not included in the Visual Inspection Footpath Condition audit completed in 2023 and which are now older than 10 years need to be inspected and audited in 2026/27.
- 12.40 kilometres of footpaths have been identified as a missing links on local roads in the path network and to connect various key destinations.

Level of Service and Risk Management

Level of Service is defined service qualities for all path asset maintenance and renewal against their performance. Service levels relate to the footpath quality, reliability, responsiveness and acceptability measured through the community perceptions survey which was completed in 2022. Community satisfaction of the Shire's Footpaths, trails and cycleways condition and maintenance service is low, with 40% of those surveyed rates those assets performance either terrible or poor.

The Shire recognises the importance of its responsibility to manage path assets to achieve optimum asset life whilst maintaining the level of service and risk monitoring, managing the risk based on updated condition ratings. The higher risk rated footpaths and missing links have been examined and project developed to form the PFWP.

Financial Analysis

The current LTFP has the allocated funds identified from the 2025/26 financial year of \$55,000 per year, which is insufficient to undertake new capital footpath projects each year. The LTFP allocation of \$55,000 per year can be only used to maintain footpath assets which scored 3 and 4 in the Visual Inspection Footpath Condition audit completed in 2023.

The Implementation Program of the 2020 WCP proposed 90 projects with a targeted implementation as short (before 2025), medium (2025-2030) and long term (after 2030).

Only 33 Projects (37%) have been completed by 2025 and \$13.43Mil is required to complete "before 2025" proposed projects. Furthermore, missing footpath links of 12.4 kilometres, which are not included in 2020 WCP required an estimated fund of \$8.2Mil.

To continue to deliver path audit priorities and network upgrades, PFWP propose to:

- Continue to seek Municipal footpath maintenance budget each year to address audit priorities, \$297k proposed for 2025/26 FY (incl internal costs),
- Seek external funding opportunities from Government agencies as funding opportunities arise, e.g. WABN grants. Where successful, seek Municipal 50/50 contribution on an as needs basis each year,
- Continue to condition installation of links on development and subdivision approvals, as required and justified,
- From 2026/27 onwards the LTFP currently has a total of \$55k per year for capital path projects. Propose to increase this figure in future years.

1. Introduction

1.1. Background

This PFWP has been developed to assist the Infrastructure Services Business Unit to outline the management of path assets, compliance with regulatory requirements and to highlight the funding required to provide the appropriate Levels of Service.

The PFWP is to be read in conjunction with the following associated Shire documents:

- Council Plan 2023-2033
- Paths Asset Management Plan Version 5, January 2019
- Shire of Serpentine Jarrahdale Local Trail Plan, October 2019
- Shire of Serpentine Jarrahdale Walking and Cycling Plan February 2020
- Community Perception Survey November 2022
- Footpath Condition Survey 2023

1.1.1. Council Plan 2023-2033

The Council Plan 2023-2033 outlines the Council's strategic priorities and long-term vision, shaped through the community input via workshops, surveys, and the Your Say SJ platform.

The key initiatives that the community would like to see implemented over the 2024-2028 period are improvements to maintenance and investment in roads and footpaths, which focus on connectivity within communities.

In addition to maintaining the existing levels of service, the Corporate Business Plan outlines the need for the completion of several new initiatives for implementation over the four-year period.

The project and activities occurring within the 2024-2028 period are:

- Hypergrowth Road Upgrades Kargotich and Orton Road;
- 8 endorsed Federal and State Blackspot Road Upgrades;
- 5 endorsed Metropolitan Regional Road Group Upgrades;

- New Carpark for Gooralong Trail Precinct;
- Roads Forward Works Plan;
- Footpath Forward Works Plan;
- Development and maintenance of maintenance schedule for playgrounds, verges, facilities, parks, and gardens.

1.1.2. Paths Asset Management Plan Version 5, January 2019

The AM Plan endorsed by Council in January 2019 outlines all the tasks and resources required to manage and maintain the Shire's path infrastructure network to an agreed level of service, in consultation with the community's expectations.

The path infrastructure network comprises of:

Footpaths and Shared Paths – 177km

These infrastructure assets have a replacement value of \$30.8Mill as of 30th June 2024. Figure 1.1 is a copy of Figure 3.3.1: Projected and LTFP Budgeted Renewal Expenditure taken from the AM Plan showing the projected renewals expenditure over the 20 years of the AM Plan

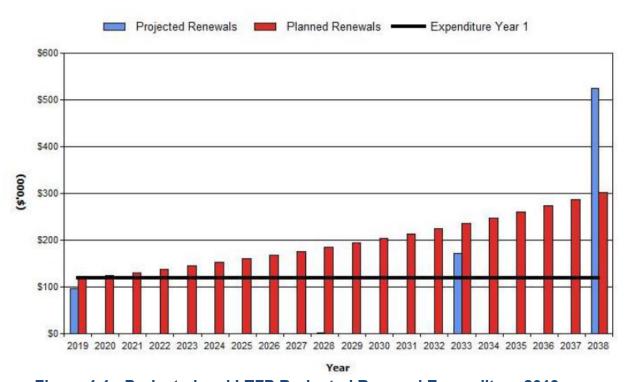


Figure 3.3.1: Projected and LTFP Budgeted Renewal Expenditure

Figure 1.1 - Projected and LTFP Budgeted Renewal Expenditure 2019

The projected asset renewal and replacement expenditure is compared to renewal and replacement expenditure in the capital works program, which is accommodated in the long-term financial plan.

A gap between projected asset renewal/replacement expenditure and amounts accommodated in the LTFP indicates that the Shire will not be able to sustain its current level of service. The result will be the deterioration in condition of the assets which will have a subsequent effect on the function of the pathways.

Providing services in a sustainable manner will require matching of projected asset renewal expenditure to meet agreed service levels with the corresponding capital works program accommodated in the LTFP.

1.1.3. Shire of Serpentine Jarrahdale Local Trail Plan, October 2019

The Local Trail Plan focus on local trails within towns and strategic connections for recreation within, into and out of the Shire. There is also potential within the Shire to capitalise on the tourism potential of trail development. Trails focussed on drawing visitors into the region should make the most of the iconic landscape experiences on offer.

The opportunities surrounding the township, and the existing path infrastructure and services provided make the Shire suited to trail town development in the future and this should be considered in all planning. Expanding the existing path network there is potential to link existing and new planned trails.

1.1.4. Shire of Serpentine Jarrahdale Walking and Cycling Plan

In 2020, the Shire endorsed a Walking and Cycling Plan (WCP), which sets out an interim and long-term aspirational walking and cycling network for the Shire and includes an implementation program for individual projects that will support the realisation of the Plan's vision and objectives.

A set of key principles have been developed for the Shire to follow in the development of an economically efficient walking and cycling network in the Shire. These are as follows:

- Complete key missing links;
- Avoid duplication particularly in the case of complimentary infrastructure projects;
- Ensure works by others (including urban development and road construction) contribute to the development of the network; and
- Focus on local improvements very close to major trip attractors and generators (e.g. schools, town centers, employment hubs and key tourism/activity nodes).

The implementation program of 2020 WCP lists each individual path link contained within the plan by locality. Each link is identified by location, category, timing, responsible agency for funding, path distance and a conservative cost estimate.

The Plan proposed 90 projects with targeted implementation dates set as short (before 2025), medium (2025-2030) and long term (after 2030). Table 1 below is a summary of proposed projects and number of projects completed before 2025 by location.

	Proposed	Completed Projects by	
Location	Projects	2025	%
Byford	41	20	49%
Cardup	6	0	0%
Tonkin Highway			
Extension	3	0	0%
Hopeland	1	0	0%
Jarrahdale	9	3	33%
Keysbrook	1	0	0%
Mundijong	12	7	58%
Serpentine	9	3	33%
Wandi	1	0	0%
Whitby	7	0	0%
TOTAL:	90	33	37%

Table 1 - Summary of the Shire Funded path assets proposed & completed "before 2025"

1.1.5. Community Perception Survey – November 2022

The Community Perceptions Survey allows Council to receive an overview of the organisations performance in service delivery and provides Council with further input from the community to consider in the delivery of the Strategic Community Plan and annual budgets.

In September 2022 Shire Officers engaged the services of Catalyse Pty Ltd to undertake the 2022 community perceptions survey in line with the requirements of Council Policy 1.3.4 Community Perception Survey.

The community perception survey sought to:

- Measure overall perceptions of the Shire of Serpentine Jarrahdale
- Evaluate community perceptions of selected services and facilities
- Identify community priorities
- Determine whether perceptions differ across the community (by selected geodemographics such as age, gender, where they live, etc.); and whether these differences are statistically significant.

Through the 2022 Community Perception Survey results, building and maintaining footpath, trails and cycleways network were identified as priorities by the community.

Figure 1.2 is a copy of Community Priorities inserted from the Community Perception Survey 2022 showing the Community driven actions and Community Voices.

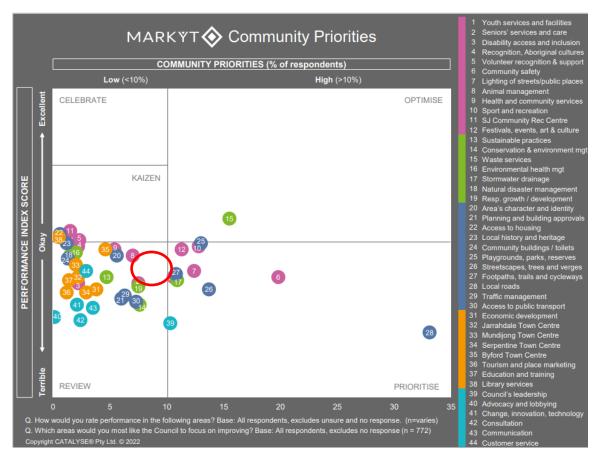


Figure 1.2 - Community Priorities

1.1.6. Footpath Condition Survey 2023

A comprehensive surface condition assessment of paths more than 10 years old was completed in 2023. The condition assessment involved a visual inspection of the path network to record defects such as poor surface texture, cracking, gaps between sections and risk of public injury due to surface deflection.

The condition assessment is measured using WALGA's 1-5 grading system with condition grading 1 to 2 being Very Good to Good, 3 being Fair and 4 to 5 being Poor to Very Poor.

Condition Grading	Description of Condition
1	Very Good: only planned maintenance required
	Good: minor maintenance required plus planned
2	maintenance
3	Fair: significant maintenance required
4	Poor: significant renewal/rehabilitation required
	Very Poor: physically unsound and/or beyond
5	rehabilitation

Table 2 - Simple Condition Grading Model

The condition survey of the Shire's path network completed at 702 path sites, and table below demonstrates the paths condition in according to Condition Grading.

Number of Inspected Sites	Condition 1 Very Good	Condition 2 Good	Condition 3 Fair	Condition 4 Poor	Condition 5 Very Poor
702	465	190	32	11	4
%	66.2%	27.1%	4.6%	1.6%	0.6%

Table 3 - Summary of road condition survey 2023

From the above table it can be seen that 93.3% of the Shire's inspected paths network were in good condition in 2023, rated as either a 1 or a 2. (Very Good or Good), and only 6.8% of inspected paths have reached the renewal intervention level of condition 3 (Fair).

The Footpath condition audit completed in 2023 only included footpath assets older than 10 years at that time. These paths will again be audited along with additional older than 10-year-old paths in 2026/27 in accordance with the Asset Management Strategy timeframes.

2. Methodology

Based on the Shire's current Asset Management Strategy, the Footpath condition audit data provides information such as risk of public injury due to path surface defection, outcomes from WCP implementation program and complete key missing links. The following methodology was adopted to create the FPWP:

- Identification of infrastructure renewal needs Review of the Visual Inspection Footpath Condition Data completed in 2023 and identified through an ongoing planning process focusing on ten-year and beyond timeframes.
- WCP Implementation Program Shire incomplete Projects Review of the WCP Implementation Program adopted in February 2020 and identified Shire funded incompletes projects focusing on targeted implementation dates set as short (before 2025), medium (2025-2030) and long term (after 2030).
- **Identification of key missing links** Focus on local improvements very close to major trip attractors and generators (e.g. schools, town centers, employment hubs and key tourism/activity nodes).
- **Business Planning** Involved justification of the project considering capital costs, funding sources (the role of the Shire) and public consultation.
- Funding method resource allocation Determine funding methods, which may involve government grants and opportunities for public-private partnerships.

3. Project Identification and Priorities

3.1 Path Condition Grading and infrastructure renewal needs

Path condition grading was applied to develop projects and form the PFWP. Sites have been identified from a comprehensive surface condition assessment of paths more than 10 years old completed in the 2022/23 financial year.

The condition assessment involved a visual inspection of the path network to record defects such as poor surface texture, cracking, gaps between sections and risk of public injury due to surface defection.

The PFWP considered only paths rated condition 3, 4 & 5, where the Condition 4 and 5 was analised in detail and the path projects were defined. 9.6 kilometers and 47 projects, which make up this PFWP, have been developed.

Upgrade of the higher risk rated path assets 2.2% (condition 4 & 5) have now mostly been completed by the Shires Operations Team as part of the footpath maintenance program, working off the asset maintenance schedule data in OneComm.

The table below shows a summar	v of roads and proiec	cts bv Condition 3. 4 & 5 Grad	ina.

	ASSET			LENGTH	COND.	COST	
#	No.	ROADS	LOCATION	(M)	RATING	ESTIMATE	NOTE
	40061669	Clondyke Dr. Byford	Lot 115 Clondyke Dr(Within the park)	19.63	5		Completed
	40061674	Clondyke Dr. Byford	Lot 115 Clondyke Dr(Within the park)	21.34	5		Completed
	40061677	Clondyke Dr. Byford	Lot 115 Clondyke Dr(Within the park)	145.73	5		Completed
	40063160	Warrington Rd. Byford	#4 Warrington Rd to Colesbrook Dr	39.05	5		Completed
	40061643	King Jarrah Cir, Jarrahdale	60 King Jarrah Circle (Reserve)	15.08	4		Included in
	40061662	Coulterhand Cir, Byford	Lot 115 Clondyke Dr(Within the park)	111.84	4		Completed
	40061663	Clondyke Dr. Byford	Lot 115 Clondyke Dr(Within the park)	12.67	4		Completed
	40061668	Burgess Dr. Byford	Lot 115 Clondyke Dr(Within the park)	200.78	4		Completed
	40061673	Clondyke Dr, Byford	Lot 115 Clondyke Dr(Within the park)	382.83	4		Completed
)	40061678	Clondyke Dr. Byford	Lot 115 Clondyke Dr(Within the park)	59.43	4		Completed
i	40061679	Clondyke Dr. Byford	Lot 115 Clondyke Dr(Within the park)	137.23	4		Completed
2	40061806	Nettleton Rd, Byford	Sout Western Hwy to Millbrace Glen	437	4		Completed
3	40061006	Wellard St, Serpentine	Wellard St from #42 to #50 east	71.82	4	\$ 74,000	Completed
1	40062957	Wellard St, Serpentine	Wellard St from #26 to #42 east	137.49	4	\$ 300,000	
5	40062937	Lefroy St, Serpentine	Wellard St to Tonkin St	185.08	4	\$ 77,000	
3	40062999	Malarkey Rd, Byford	Shine Rd to Racy Prince Ct	254.54	3	\$ 144,000	
7	40061595	Old Brickworks Rd, Byford	Waterside Pass to White Gum Rise	418.87	3	\$ 144,000	
3	40061629		Atkins St to Carex Walk	254.14	3		
	40061629	Marginata Pde, Jarrahdale		311.71			
		Old Brickworks Rd, Byford	Nettleton Rd to Waterside Pass		3	\$ 172,000	
	40061636	Marginata Pde, Jarrahdale	Carex Walk to Darwinia Ct	144.09	3	\$ 107,000	
1	40061644	King Jarrah Cir, Jarrahdale	King Jarrah Cir - all footpath in park	630.99	3	\$ 450,000	
2	40061648	Hall Rd, Serpentine	Karnup Rd to Beacham Rd	408.69	3	\$ 234,000	
3	40061652	Marginata Pde, Jarrahdale	Darwinia Ct to King Jarrah Cir	379.2	3	\$ 215,000	
4	40061653	Coral Vine Loop, Jarrahdale	King Jarrah Cir to Ghost Gum Hts	246.3	3	\$ 160,000	
5	40061670	Clondyke Dr, Byford	Lot 115 Clondyke Dr(Within the park)	19.53	3		Completed
3	40061681	Clondyke Dr, Byford	Lot 115 Clondyke Dr(Within the park)	16.36	3		Completed
7	40061763	Quinine Cr, Byford	Madeira Turn to Peach Street	48.29	3	\$ 76,000	
В	40061808	Nettleton Rd, Byford	Millbrace Glen to Old Brickworks Rd	289.49	3	\$ 152,000	
9	40061809	Karnup Rd, Serpentine	Karnup Rd - from #1587 to #1621	547	3	\$ 298,000	
0	40061829	Madeira Turn, Byford	Portwine Av to Redcurrant St	71.52	3	\$ 78,000	
1	40061849	Watkins Rd, Mundijong	25M After Cowen St to Lupino St	201.87	3	\$ 136,000	
2	40061850	Watkins Rd, Mundijong	Lupino St to Rose Rd	188.76	3	\$ 132,000	
3	40061869	Hall Rd, Serpentine	Leslie St to Wattle Rd	1429.6	3	\$ 584,000	
4	40061952	Benalla Cr, Byford	Vickers Pass to Bandin Way	287.9	3	\$ 170,000	
5	40061961	Benalla Cr, Byford	Benalla Cr to Enfield Elbow	45.1	3	\$ 77,000	
3	40062021	Bren Cl, Byford	Diamantina Bvd to Quiberon Link	148.19	3	\$ 115,000	
7	40062022	Quiberon Link, Byford	Vickers Pass to Bandin Way	261.46	3	\$ 174,000	
3	40062727	Coulterhand Cir, Byford	Lot 115 Coulterhand Cir	241.1	3		Completed
9	40062749	Atkins St, Jarrahdale	Atkins St to Marginita Parade	76.37	3	\$ 84,000	
)	40062756	Atkins St, Jarrahdale	Atkins St to Marginita Parade	98.84	3	\$ 91,000	
	40062941	Wanliss St. Jarrahdale	Wanliss St to Cousens St	7.68	3	\$ 28,000	
2	40062952	Munro St, Jarrahdale	Jarrahdale Rd to Munro St, Driveway	43.37	3	\$ 49,000	
3	40062968	Wellard St, Serpentine	Lefroy St to Recreation Centre	36.72	3	\$ 42,000	
1	40063024	Lefroy St, Serpentine	Fairbairn Rd to Rangeview Loop	126.4	3	\$ 74,000	
-	40063024	Clifton St, Byford	South Western Hwy to #9 Clifton St	68.26	3	\$ 63,000	
3	40063155	Amy St, Byford	Clifton St to Beenyup Rd	135.09	3	\$ 79,000	
7	40063157	Edward Cr. Byford	Blytheswood Av to Byford Dr	202.68	3	\$ 114,000	
	40000107	cawara or, byrora	en and an	202.00	J	7 114,000	

Table 4 - Condition Grading 3, 4 & 5 Projects

3.2. WCP - Implementation Program - Shire incomplete Projects

This WCP which was adopted by Council in February 2020 integrates a broad analysis to formulate a vision for walking and cycling within the Shire. The Plan sets out that broad vision, along with an interim and long-term aspirational walking and cycling network for the Shire.

The Shires ultimate Walking and Cycling Network is shown overleaf as Figure 1. in WCP. Key recommendations of the WCP include:

- Completion of Primary Routes along Tonkin Highway, the South West Railway and Rowley Road (mostly as part of large infrastructure projects by State Government Agencies),
- Completion of Secondary Routes between the Shire's urban centres, mainly along east-west roads. These are expected to be funded through grants, road construction projects and developer contributions,

 Completion of Local Routes to provide access to community facilities, shops and to facilitate leisure cycling within existing and emerging residential areas.

The proposed ultimate path network is detailed within Figure 3.1 provided in Appendix A.

The implementation program (Appendix B – Figure 3.2) has been developed that lists each individual path link contained within the plan by locality and listed responsible agency for funding.

Tables 5, 6 and 7 below detail the WCP projects yet to be completed.

There are seven incomplete Shire funded paths projects included in WCP – Implementation Program scheduled for Completion "Before 2025".

\$13.43Mill (per cost estimate completed in 2020) funding is required to complete "before 2025" outstanding projects. The Table 5 below shows a summary of those projects.

	2020 V	Valking & Cycling Pla	n - Implementation Program - SI	nire of Serpentine Jarrahdale Fun	ding Projects	
#	Location	Road	Recommendation	Actions	Estimated Cost	Year/Priorit
			Install link from aged care facility to	Install concrete path on GordinWay to		
				' '		
			connect to existing path along Soldiers	connect to existing concrete path that	****	2025/25
1	Byford	Gordin Way	Rd	ends at corner of Soldiers Rd/Gordin Wy	\$114,800	2025/26
			Create trail route to Serpentine	To be developed either as a trail route		
2	Serpentine	Falls Road	Falls	or as a secondary route	\$1,433,700	2025/26
			Install link between railway and			
3	Serpentine	Karnup Road East	SW Hwy	Install shared red asphalt path	\$1,109,700	2025/26
			Install link between Beenyup Road and			
4	Byford	South Western Highway	Wilaring Street	Install shared red asphalt path	\$696,110	
5	Byford	Eleventh Road	Install link from the PSP to SW Hwy	Install shared red asphalt path	\$558,700	
		Cardup Siding Road	Connect existing path to Tonkin	Install shared red asphalt path and		
		and	Hwy extension PSP and Soldiers	remove gates at each end and replace		
6	Cardup	path	Rd PSP and facilitate its use	with bollards	\$483,200	
			Construct path from western Shire			
			boundary to connect to Armadale Line			
7	Byford	Rowley Road	extension PSP	Install shared red asphalt path	\$9,039,600	
				TOTAL	\$13,435,810	

Table 5 – WCP Implementation Program - Shire incomplete Projects Scheduled for Completion "Before 2025"

\$1.5M (Election promise) for Karnup Rd & Falls Rd and \$185K (Municipal Funded) for Gordin Way are currently proposed in the 2025/26 draft budget.

Fourteen incomplete projects scheduled for Completion between 2025 and 2030 are presented in Table 6 below. \$17.13Mill (per cost estimate completed in 2020) funding is required to complete those projects.

					Estimated	
#	Location	Road	Recommendation	Actions	Cost	Year/Priority
			Install link between Larsen	Install shared red asphalt		
1	Byford	Stanley Road	and Linton Street	path	\$604,000	
			Install a link between local			
2	Jarrahdale	Oak Way	paths	Extend concrete path	\$101,500	
		,		,	,,	
			Install a link between			
3	Jarrahdale	Kingsbury Drive	Jarrahdale Rd and George St	Extend concrete path	\$156,800	
				·		
			Install a link between			
4	Jarrahdale	Brady Road	Jarrahdale Rd and George St	Extend concrete path	\$192,500	
			Install a link between	Install shared red asphalt		
5	Jarrahdale	Millars Road	Jarrahdale Rd and Rail Trail	path	\$1,434,500	
			Install link between Abernethy	Install shared red asphalt		
6	Byford	Warrington Road	and Orton Roads	path	\$1,238,200	
			Install link between Rowley	Install shared red asphalt		
7	Byford	Nicholson Road N	and Thomas Roads	path	\$2,138,400	
			Install link between Rowley	Install shared red asphalt		
8	Darling Downs	Masters Road	and Thomas Roads	path	\$2,249,900	
			Install link between SW Hwy	Install shared red asphalt		
9	Byford	Linton Street	and Beenyup Rd	path	\$2,023,400	
			Install link between Tonkin	Install shared red asphalt		
10	Byford	Orton Road East	Hwy PSP and SW Hwy	path	\$2,511,000	
			Install link between Kargotich	Install shared red asphalt		
11	Byford	Orton Road central	Road and Tonkin Hwy PSP	path	\$1,411,850	
			Complete link between future			
			Tonkin Highway and Rail	Install shared red ashphlat		
12	Cardup	Bishop Road	Primary Routes	path	\$1,381,650	
			Install link between Butcher	Install link between Butcher	****	
13	Mundijong	Richardson Street wes	Street and Tonkin Hwy PSP	Street and Tonkin Hwy PSP	\$936,200	
			Install link between Falls Rd	Install shared red asphalt	4=4=	
14	Whitby	South Western Highwa	and Keirnan St	path	\$748,960 \$17,128,860	

Table 6 – 2020 WCP Implementation Program - Shire incomplete Projects Scheduled for Completion "2025 - 2030"

Table 7 below shows a summary of those projects scheduled for completion after 20230 at an estimated cost of \$40.2Mill.

		2020 Walking &	Cycling Plan - Implementation Progra	m - After 2030 Shire Funding Pro	iects	
			J.	Estimated		
#	Location	Road	Recommendation	Actions	Cost	Year/Priority
			Install link between Cockram			
1	Mundijong	Adonis Street	Street and Mundijong Road	Install shared red asphalt path	\$641,750	
			Install link between Leslie St and			
2	Serpentine	Hardey Road	Lefroy Rd	Install shared red asphalt path	\$644,015	
			Install link between Kargotich and			
3	Byford	Orton Road West	Nicholson Roads	Install shared red asphalt path	\$4,884,850	
			Construct path from Kargotich Road to		_	
4	Byford	Abernethy Road west		Install shared red asphalt path	\$2,038,500	
_ ا	D. f d	Nichalasa Baad Cauth	Install link between Thomas Roads	1t-11-bddb-1ttb	00 505 500	
5	Byford	Nicholson Road South	and Mundijong Roads	Install shared red asphalt path	\$8,626,500	
١.			Install link from Tonkin Hwy to			
6	Cardup	Gossage Road	Shire's western boundary	Install shared red asphalt path	\$6,828,300	
			Install link from Railway PSP to			
7	Cardup	Cardup Siding Road	Tonkin Hwy PSP	Install shared red asphalt path	\$2,091,350	
			Install link between Orton Rd			
8	Cardup	Bett Road	and New East-west Road	Install shared red asphalt path	\$3,246,500	
			Install a link between Primary			
9	Keysbrook	Elliott Road	route and SW Hwy	Install shared red asphalt path	\$551,150	
			Install link from Railway PSP to			
10	Mundijong	Mundijong Road	Shire's western boundary	Install shared red asphalt path	\$7,265,700	
			Install link between Railway PSP and			
11	Serpentine	Karnup Road West	Tonkin Hwy PSP	Install shared red asphalt path	\$3,426,300	
				TOTAL:	\$40,244,915	

Table 7 – 2020 WCP Implementation Program - Shire incomplete Projects Scheduled for Completion "After 2030"

3.3. Identification of key missing links

Over time, the Shire should incrementally deliver a footpath on at least one side of every access road within every town site. This is particularly the case within established parts of Byford, Cardup, Mundijong, and Serpentine.

However, it was noted that there are numerous missing connections where new developments are yet to occur. Missing connections discourage people from choosing walking and cycling for particular journeys if they perceive that it will be difficult or unsafe

The development of routes should focus on key missing links between trip generators (housing and public transport stops) and trip attractors (schools, shops, and community facilities). These paths need to be considered and prioritised so that additional path infrastructure is developed to fill any missing links in the path network and to connect various key destinations.

A further 12.40 kilometers of footpaths have been identified as being missing links in the path network to connect various key destinations within the Shire. Preliminary cost estimates indicate \$8.20M is required for completion of these missing links.

The PFWP consider the missing link projects as a lower priority order for funding and delivery following delivery of the nominated renewal path projects and incomplete projects from the WCP 2020. Community consultation on the proposed missing links plan will be undertaken prior to delivery on the site.

The Tables below show a summary of proposed missing links projects by location.

	Byford Missing Links & Projects by Location									
						Es	stimated			
#	Roads	Location	Road 1	Road 2	Length M		Cost			
1	Catherine Street	Byford	Beenup Rd	Clifton St	160	\$	132,000			
2	Blytheswood Road	Byford	Helen Cr	Linton St N	270	\$	145,000			
3	Blytheswood Road	Byford	Helen Cr	John Cr	130	\$	94,000			
4	Brown Street	Byford	Helen Cr	Burell St	360	\$	214,000			
5	Kardan Bvd	Byford	Koolbardi Loop	Koolbardi Loop	240	\$	177,000			
6	Hunt Rd	Byford	Ballagar Rd	Pomera Dr	95	\$	78,000			
7	Batty Rd	Byford	Ballagar Rd	Ballawarra Av	200	\$	127,000			
8	Waterside Pass	Byford	Old Brickworks Rd	End of Waterside Pass	720	\$	387,000			
9	Soldiers Rd	Byford	Cardup Siding Rd	Pinebrook Rd	130	\$	110,000			
10	Eurythmic Rd	Byford	Delianuova St	Briggs Rd	190	\$	143,000			
11	Briggs Rd	Byford	Eurythmic Rd	Caspian Ch	240	\$	169,000			
12	Briggs Rd	Byford	Binshaw Av	Larsen Rd	400	\$	275,000			
13	Briggs Rd	Byford	#27 Briggs Rd	Abernethy Rd	250	\$	178,000			
14	John Cr	Byford	Park Rd	Park Rd	300	\$	233,000			
15	Binshaw Av	Byford	#24A Binshaw Av	Thatcher Rd	150	\$	115,000			
16	Thatcher Rd	Byford	Binshaw Av	Abernethy Rd	720	\$	429,300			
				TOTAL:	4555	\$:	3,006,300			

Table 8 - Byford Missing Links

	Cardup Missing Links & Projects by Location								
	Estimated								
#	Roads	Location	Road 1	Road 2	Length M	Cost			
			Pinebrook Rd (red						
1	Soldiers Rd	Cardup	seal shoulder)	Bishop Rd footpath	3264	\$ 2,154,240			
				TOTAL:	3264	\$ 2,154,240			

Table 9 – Cardup Missing Links

		Mundijong N	Missing Links & Pro	jects by Location			
						Es	stimated
#	Roads	Location	Road 1	Road 2	Length M		Cost
1	Tonkin St	Mundijong	RigoII Ct	Baskerville Rd	210	\$	138,600
2	Baskerville Rd	Mundijong	Tonkin St	Livesey St	400	\$	264,000
3	Butcher St	Mundijong	Cockram St	Richardson ST	470	\$	310,200
				TOTAL:	1080	\$	712,800

Table 10 - Mundijong Missing Links

		Serpentine I	Missing Links & Pro	jects by Location			
						Е	stimated
#	Roads	Location	Road 1	Road 2	Length M		Cost
2	Hardey Rd	Serpentine	Leslie St	Lefroy St	900	\$	594,000
3	Tranby Av	Serpentine	Lefroy St	Lefroy St	780	\$	514,800
4	Rangeview Loop	Serpentine	Tranby Av	Lefroy St	139	\$	91,740
5	Fielder Rd	Serpentine	Hall Rd	Egerton Dr	113	\$	74,580
6	Egerton Dr	Serpentine	75 Egerton Dr	Hall Rd	820	\$	541,200
				TOTAL:	2752	\$	1,816,320

Table 11 - Serpentine Missing Links

		Whitby Mi	ssing Links & Proje	cts by Location			
						Es	timated
#	Roads	Location	Road 1	Road 2	Length M		Cost
1	Keirnan St	Whitby	Tinspar Av	Evelyn St	200	\$	132,000
2	Evelyn St	Whitby	Galvin Rd	Robertson Rd	540	\$	356,400
				TOTAL:	740	\$	488,400

Table 12 - Whitby Missing Links

3.4 Financial Capacity

To continue to deliver path condition audit priorities, WCP network upgrades and proposed missing links projects Shire proposes to:

- Continue to seek Municipal footpath maintenance budget each year to address audit priorities, \$297k proposed for 2025/26 FY (incl internal costs),
- Seek external funding opportunities from Government agencies as funding opportunities arise, e.g. WABN grants. Where successful, prepare Business Cases to seek Shires contribution on a 50/50 basis each year as needed,
- Continue to condition installation of links on development and subdivision approvals, as required and justified,
- From 2026/27 onwards the LTFP currently has a total of \$55k per year for capital path projects. Work to increase this figure in future years, to enable additional future path projects delivery.

4. Level of Service and Risk Management

4.1. Level of Service

Service levels have been defined in two terms Community Levels of Service and Technical Levels of Service.

Community Levels of Service is a measurable target which determines the type and extent of services delivered to the Community. Footpath, trails and cycleways network levels are measured internally and by the community to determine adequate provision.

The following findings have been drawn from the community perceptions survey that was completed in 2022. Community satisfaction with the Shire's path condition and maintenance level is low, with 40% of those surveyed indicating either terrible or poor (Appendix C – Figure 4.1 and 4.2).

Existing controls and expenditure to mitigate risk are considered inadequate and need to be prioritised, improving on meeting the needs of a growing population.

Technical Levels of Service supporting the community service levels are operational or technical measures of performance. These technical measures relate to the allocation of resources to service activities that the Shire undertakes to best achieve the desired community outcomes and demonstrate effective performance.

Technical service measures are linked to annual budgets allocation and the activities that return the service capability of an asset up to that which it had originally (frequency and cost of path renewal)

The key messages regarding the Level of Services that came from available references to form the PFWP are summarised below:

- The Footpath condition audit completed in 2023 only included footpath assets older than 10 years at that time. These paths will again be audited along with additional older than 10-year-old paths in 2026/27 in accordance with the Asset Management Strategy timeframes.
- The Shire did not have adequate funding to renew path assets at the end of their useful life and maintain existing path network assets to ensure consistent service delivery.
- Currently only 33 (37%) of the projects nominated in WCP 2020 due to be completed by 2025, have been completed by 2025.

4.2. Risk Management

In 2015 the Council endorsed the Shire's Strategic Risk Register and revised Council Policy Risk Management (OCM281/09/20) in which all operational and strategic risks are captured, rated, and monitored based on their level of risk.

These are important achievements towards improving the risk management processes at the Shire as they provide a mechanism for Shire Executive to manage risk at a strategic level and an avenue for the Committee and Council to monitor strategic risk through quarterly reporting.

A key strategic risk identified on the Shire's Strategic Risk Register is that the Shire does not implement Asset Lifecycle Management to obtain quality long- term asset life. Actions such as Footpath Asset Condition Survey and Pathways Renewal Program identified by Shire's Asset Management Strategy (AMS) for inclusion in LTFP, have been completed and AMP and LTFP need to be revised to achieve the objectives of the AMS.

There are currently significant risks associated with unclear level of service/community need, and Asset life cycle cost are not budgeted, rated as a Moderate risk within the Risk Register that need to be reviewed and rated to appropriate level of risk.

Further information on these risks, including their ratings, control and mitigation strategies, are detailed in Appendix C - Figure 4.3.

5. Monitoring

This PRWP will be a reference document to the Asset Management Working Group and Infrastructure Service to assist in management of the Shire's path assets.

The PFWP is a program of path capital projects driven from the report of Visual Inspection Footpath Condition Data completed in 2023, WCP – Implementation Program, Shire incomplete Projects and identified path missing links to be undertaken by the Council in the future.

The Footpath condition audit completed in 2023 only included footpath assets older than 10 years at that time. These paths will again be audited along with additional older than 10-year-old paths in 2026/27 in accordance with the Asset Management Strategy timeframes.

The PFWP will be revised and updated periodically on an as needed basis to align with the budget process and review of the Long term Financial Plan.

6. Appendices

- Appendix A Figure 3.1 Copy of WCP Figure 1: Proposed Ultimate Network inserted from the Walking and Cycling Plan showing the key recommendations for Shire path network
- Appendix B Figure 3.2 2020 Walking and Cycling Plan Implementation Program
- Appendix C Figure 4.1 Shire of Serpentine Jarrahdale 2022 Community Perception Survey results,

Figure 4.2 - Shire of Serpentine Jarrahdale 2022 Community Perception Survey results &

Figure 4.3 - Shire of Serpentine Jarrahdale Asset Management Strategy Risk Register

Appendix A - Figure 3.1 - Copy of WCP Figure 1: Proposed Ultimate Network inserted from the Walking and Cycling Plan

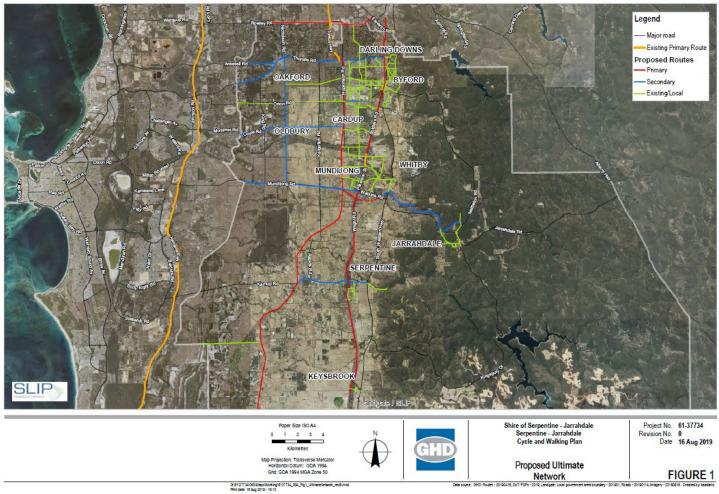


Figure 3.1 Copy of WCP Figure 1: Proposed Ultimate Network inserted from the Walking and Cycling Plan showing the key recommendations for Shire path network

Appendix B - Figure 3.2 - 2020 Walking and Cycling Plan – Implementation Program

ID	Locality	Location	Recommendation	Route Type	Specific benefits	Actions	Timing	Responcible Agency	Path Distance (m)	Preliminary Estimated Cost
			Provide quality cycling link between		Access to Byford Secondary	Install red asphalt path on				
	Byford	Abernethy Road	Hopkinson Road (Future Tonkin Highway) and railway line	Secondary	College, future Byford Train Station, future Tonkin PSP	south side, placing adjacent to concete paths where they exist	Underway	Shire/DoT	3420	\$2,770,200
	byloru	Abernetity Road	and ranway line	Secondary	Station, luture folikiii PSP	concete paths where they exist	Officer way	Silite/DOT	3420	32,770,200
	Byford	Plaistowe-Boulevarde	Link between Thomas and Larsen Roads	Local	Link through residential area	Utilise existing concrete path	Ongoing	Shire	878	N/A
		Benalla			North-south link through					
		Grescent/Burgess	Install-link between Wilaring Street and		residential area for students	Utilise existing concreate and				
	Byford	Dv/Goulterhand Cir	SW-Hwy	Local	to get to school	red asphalt shared path	Ongoing	Shire	1,600	N/A
					treath cough field through					
	Byford	Tourmaline Boulevarde	Install link between Abernethy and Orton Boads	Local	North-south link through residential area	Utilise existing concrete path. Complete missing links	Ongoing	-Developer	1.790	N/A
	byloru	Tourmaine boulevarue	Install link between Kinsella Ave and	cocar	Provide a link to Primary	complete missing limb	ongoing	- Developer	1,790	N/A
	Byford	Kokoda-Boulevarde	Tourmaline Boulevarde	Local	School-	Utilise existing concrete path	Ongoing	Shire	600	N/A
	•	Kinsella/McMillan/Copp	Install link from Doley Road to Tonkin		Provide a link to Primary					
	Byford	er	Hwy PSP	Local	School-	Utilise existing concrete path	Ongoing	Shire	1,360	N/A
			Install link from Abernethy Road to Orton		Link two east-west routes via	Utilise existing concrete path.				
	Byford	Doley-Road	Road Install-link between Beenyup and	Local	a-neighbourhood-centre Link between two east-west	Complete missing links	Ongoing	-Developer-	1,76 0	N/A
	Byford	Old Brickworks Road	Nettleton Roads	Local	routes	Utilise existing concrete path	Ongoing	Shire	1,050	N/A
	Dy.ord	Old Billiam House	Install-link between Ballagar and	Local	Link between two east-west	otilise existing concrete path	Cingoling	5	2,050	.77
	Byford	Malarkey Road South	Abernethy-Roads	Local	routes	Utilise-existing-concrete-path	Ongoing	Shire	1,000	N/A
			Install link between Larsen and Linton							
	Byford	Walters Road	Street	Local	Connection to railway PSP	Utilise existing concrete path	Ongoing	Shire	828	N/A
					Provides a connection to					
	Byford	Park-Road	Maintain existing path between Walters Rd and South Cr	tocal	kindergarten and tennis courts	Maintain existing concrete path	Onesine	Shire	600	N/A
	byloru	Park Road	Complete shared path between Tonkin	LUCAI	Connect PSP with urban	ivialitatii existing concrete patri	Ongoing	Silie	000	N/A
	Byford	Thomas Road East	Highway and SW-Hwy	Secondary	centres	Install shared red asphalt path	Before 2025	Shire/Main Roads/DoT	4,000	\$3,240,000
			Complete link between Mundijong and							
			Shire's northern bounday (following rail		Completes major missing					
	Byford	Soldiers Road	access track)	Primary	commuting link	Complete separated path	Before 2025	Shire/DoT/PTA	10,770	\$9,854,550
			Jacob II and Same and Bridge and a good to		Link Byford east with					
	Byford	Beenyup Road	Install path from Old Brickworks Road to railway line	Local	Armadale Line extension PSP and Byford west	Install shared red asphalt path	Refere 2025	Shire	1,140	\$860,700
	bylord	occinyap noua	Construct path from western Shire	Locui	Provide an east-west route	motor of rea aspiral patri	Delore 2025	Silic	2,240	\$600,700
			boundary to connect to Armadale Line		that links key north-south					
	Byford	Rowley Road	extension PSP	Primary	routes	Install shared red asphalt path	Before 2025	Shire	11,160	\$9,039,600
					Provide an east west route					
					along southern edge of new residential development that					
			Install link between Kardan Blvd and		connects to north south					
	Byford	Ballagar Road	Briggs-Rd	Local	routes	Install shared red asphalt path	Before 2025	Shire	1,360	\$1,026,800
					Provides a connection					
			Install-link between Thomas and		between two key east-west					
	Byford	Kardan Boulevarde	Abernethy Roads	Local	routes	Install shared red asphalt path	Before 2025	Shire	1,39 0	\$1,049,450
	Byford	Larsen Road	Install link between Briggs Road and SW	Local	Provide a link to Primary School	Install charged and annhalt math	Boforo 3035	Shire	4.540	£4 330 300
	bytere	Carsen Hoad	Highway	LUC3I	SCHOOL	Install shared red asphalt path	Before 2025	Shire	1,640	\$1,238,200

		Install-link between Walters and Beenyup		Provide a link to Primary					
Byford	Mary Street	Reads	Local	School-	Install shared red asphalt path	Before 2025	Shire	1,000	\$755,000
		Install link between Linton and Beenyup		Provide a link to Primary					
Byford	Amy Street	Reads	Local	School	Install shared red asphalt path	Before 2025	Shire	978	\$738,39
		Install link between Beenyup Road and		Provide a link to Primary			-11		
Byford	South Western Highway	-	Local	School	Install shared red asphalt path	Before 2025	Shire	922	\$696,110
	udada serie	Install link between SW Highway and Benalla Crescent	Local	Provides a connector for	to stall about door door balls and	B-6 2025	el:	394	****
Byford	Wilaring Street	Install-link between Benalla Cr and SW	FOCSI	students to get to school Connects local routes to	Install shared red asphalt path	Before 2025	Shire	391	\$295,20
Byford	Clondyke Drive	Hwy and crossing of SW Hwy	tocal	Secondary route	Utilise existing path	Defore 2025	Shire	230	\$
byloru	Cionayke Drive	Tiwy and crossing or 5 w Tiwy	LUCAI	Secondary Toute	Install concrete path on Gordin		Shire	230	7
					Way to connect to existing				
				Completes missing link that	concrete path that ends at				
	Gordin Way/Soldiers	Install link from aged care facility to		allows aged care residents to	corner of Soldiers Rd/Gordin				
Byford	Road	connect to existing path along Soldiers Rd	Local	access path network	Wy	Before 2025	Shire	164	\$114,80
				Provides a link from path					
				network to the trails network					
Darling Downs	Eleventh Road	Install link from the PSP to SW Hwy	Local	east of SW Hwy	Install shared red asphalt path	Before 2025	Shire	740	\$558,70
		Install shared path between Tonkin							
Byford	Thomas Road central	Highway and Nicholson Road	Secondary		Install shared red asphalt path	2025-2030	Shire/Main Roads/DoT	4,630	\$3,750,30
		Install link between Abernethy and Orton		Link tow east-west routes via					
Byford	Warrington Road	Roads	Local	a school	Install shared red asphalt path	2025-2030	Shire	1,640	\$1,238,20
				Provides a link through the					
				new residential area to	Install concrete path missing				
B. 64	saladan sandstada	Install link between Thomas and Ballagar Roads	Local	connect to secondary east-	link to Thomas Rd once	2025-2030	Barralanan	een total and original	
Byford	Malarkey Road North	Install link between Old Brickworks Road	Local	west route on Thomas	development occurs	2025-2030	Developer	553 total 236 missing	N/
Byford	Nettleton-Road	and Tonkin Hwy PSP	Local	Connection to railway PSP	Install-shared-red-asphalt-path	2025 2020	Shire	1,160	\$875,80
byloru	Nettictorritoda	Construct path from Tonkin Hwy PSP to	Locur	Connection to runnay 1 51	motern shared rea aspirare patri	2023 2030	Shire	1,100	2073,00
Byford	Abernethy Road central		Local	Connection to railway PSP	Install shared red asphalt path	2025-2030	Shire	1,900	\$1,434,50
-,	, , , , , , , , , , , , , , , , , , , ,			Provides a connection				-,	*=,.=,==
		Install link between Rowley and Thomas		between two key east-west					
Byford	Nicholson Road North	Roads	Secondary	routes	Install shared red asphalt path	2025-2030	Shire	2,640	\$2,138,40
				Provides a connection					
		Install link between Rowley and Thomas		between two key east-west					
Darling Downs	Masters Road	Roads	Local	routes	Install shared red asphalt path	2025-2030	Shire	2,980	\$2,249,90
		Install link between Larsen and Linton							
Byford	Stanley Road	Street	Local	Connection to railway PSP	Install shared red asphalt path	2025-2030	Shire	800	\$604,00
		Install link between SW Hwy and		Connection along eastern					
Byford	Linton Street	Beenyup Rd	Local	•	Install shared red asphalt path	2025-2030	Shire	2,680	\$2,023,40
D. food	Outen Band Servi	Install link between Tonkin Hwy PSP and	F	Connects two key north-south		2025	eti	3.460	42.500
Byford	Orton Road East	SW Hwy	Secondary	Connects two key north couth	Install shared red asphalt path	2025-2030	Shire	3,100	\$2,511,00
Byford	Orton Road central	Install link between Kargotich Road and Tonkin Hwy PSP	Local	Connects two key north-south routes	Install shared red asphalt path	2025-2030	Shire	1.870	\$1,411,85
2,1014	O. John Road Cellulai	Install link between Kargotich and	Cocai	Connects two key north-south		2023-2030	and to	2,070	-1,411,03
Byford	Orton Road West	Nicholson Roads	Local	routes	Install shared red asphalt path	After 2030	Shire	6,470	\$4,884,85
_,		Construct path from Kargotich Road to			and a second participation			2,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Byford	Abernethy Road west	Nicholson Road	Local	Connection to railway PSP	Install shared red asphalt path	After 2030	Shire	2,700	\$2,038,50
				Provides a connection	,,			in the second second	
		Install-link between Thomas and		between two key east-west-					
Byford	Briggs-Road	Abernethy-Roads	Local	routes	Install-shared-red-asphalt-path	After 2030	Shire	1,720	\$1,298,60
				Provides a connection					
		Install link between Thomas Roads and		between two key east-west					
Byford	Nicholson Road South	Mundijong Roads	Secondary	routes	Install shared red asphalt path	After 2030	Shire	10,650	\$8,626,50
		Complete shared path between							
		Nicholson Road and Shire's western							
Byford	Thomas Road West	boundary	Secondary		Install shared red asphalt path	After 2030	Shire/Main Roads/DoT	4,470	\$3,620,70
Byford		Install link from Thomas Road to Shire's		Connection to Kwinana Fwy		_		Ordinary Council Meeting -	16 June
	Anketell Road	western boundary	Secondary	PSP	Install shared red asphalt path	After 2030	Shire/Main Roads/DoT	3.000	\$2,430,00

ID	Locality	Location	Recommendation	Route Type	Specific benefits	Actions	Timing	Responcible Agency	Path Distance (m)	Preliminary Estimated Cost
			Connect existing path to Tonkin			Install shared red asphalt path				
			Hwy extension PSP and Soldiers		-	and remove gates at each end				****
	Cardup	path	Rd PSP and facilitate its use	Local	facilitates its use	and replace with bollards	Before 2025	Shire	640	\$483,200
			Complete link between future		Connects school with					
	Cardup	Bishop Road	Tonkin Highway and Rail Primary Routes	Local	north-south primary routes	Install shared red ashphlat path	2025 2020	Shire	1,830	\$1,381,650
	Cardup	bishop Road	noutes	Local	Toutes	install shared red ashphiat path	2023-2030	Silie	1,030	\$1,361,630
					Will connect future					
					Soldiers Rd path with					
					future Tonkin Hwy					
					PSP and include a					
					crossing of railway to					
			Install link between Hopkinson		connect industrial	Install shared red asphalt path				
	Cardup	Karbro Drive	Rd and railway line	Local	development	and a crossing of the railway	2025-2030	Shire/ARC/PTA	2,270	\$1,713,850
					Connects Tonkin Hwy					
	C	Course Bood	Install link from Tonkin Hwy to	Consendant.	PSP with Kwinana Fwy		16 2020	China	0.430	\$5 828 200
	Cardup	Gossage Road	Shire's western boundary	Secondary	PSP	Install shared red asphalt path	After 2030	Shire	8,430	\$6,828,300
			Install link from Railway PSP to		Connects Tonkin Hwy					
	Cardup	Cardup Siding Road	Tonkin Hwy PSP	Local	•	Install shared red asphalt path	After 2030	Shire	2,770	\$2,091,350
			, , , , ,		Provides local N-S				_,	<i>\$2,000,000</i>
			Install link between Orton Rd		connector between					
	Cardup	Bett Road	and New East-west Road	Local	Byford and Whitby	Install shared red asphalt path	After 2030	Shire	4,300	\$3,246,500
ID	Locality	Location	Recommendation	Route Type	Specific benefits	Actions	Timing	Responcible Agency	Path Distance (m)	Preliminary Estimated Cost
					Ensures universal	Install concrete bus stop pad				
			Complete bus stop concrete		access to public	(Shire to then link to path				
	Entire Shire		pads		transport	network)	Before 2025	PTA	N/A	-
					Provides a primary					
	F .: 01:	Tonkin Highway	Install PSP adjacent Tonkin Hwy		spine route through		D		43500	£40.350.500
	Entire Shire	extension stage 1	extension to SW Hwy	Primary	the Shire	Install shared red asphalt path	Before 2025	MRWA	13500	\$12,352,500
		Tankin Uinkoon	lestall DCD adjacest Teatie Here		Provides a primary					
	Entire Shire	Tonkin Highway extension stage 2	Install PSP adjacent Tonkin Hwy extension	Primary	spine route through the Shire	Install shared red asphalt path	After 2030	MRWA	21000	\$19,215,000
ID	Locality	Location	Recommendation	Route Type	Specific benefits		Timing	Responcible Agency	Path Distance (m)	Preliminary Estimated Cost
	cotanty	LUCUION	Install link from Tonkin Hwy to	noute Type	openiio bellello	ricuona		nespondible regality	radi Distance (III)	reminiary Estimated Cost
	Hopeland	Henderson West Road	Shire's western boundary	Local		Install shared red asphalt path	After 2030	Shire	3,100	\$2,340,500
	peiana	THE STATE OF THE S	- Trestern boundary	20201		Sharea rea aspirate paul			3,100	\$2,540,500

ID	Locality	Location	Recommendation	Route Type	Specific benefits	Actions	Timing	Responcible Agency	Path Distance (m)	Preliminary Estimated Cost
-	Jarrahdale	Jarrahdale Road	Maintain-concrete-path	Local	Local connectivity	Maintain-existing	Ongoing	Shire	1700	
	Jarrahdale	Atkins Street	Maintain-concrete path	Local	Local-connectivity	Maintain-existing	Ongoing	Shire	678	
			Complete missing path links on Jarrahdale Road between							
	Jarrahdale	Jarrahdale Road	Buckland Road and Lang Street	Local	Last part of rail trail	Install shared red asphalt path	2025-2030	Shire/DoT	500	\$377,500
	Jarrahdale	Jarrahdale Road	Construct a "rail trail" suitable for recreational and commuter cycling between Mundijong and Jarrahdale	Local	Tourism potential, access to trail networks, potential	Seal or compact and install signage along existing railway alignment between Rose Road and Buckland Road, improve link along Watkins Road	2025-2030	Shire/DoT	7,250	\$5,872,500
	Jananuale	Jananuale Koau	Janandale	LUCAI	for cycle communiting	IIIK along watkins koad	2023-2030	Silile/ DOT	7,230	33,672,300
	Jarrahdale	Oak Way	Install a link between local paths	Local	Link local desire line	Extend concrete path	2025-2030	Shire	145	\$101,500
	Januaria	Out Way	Install a link between Jarrahdale	Locui	Ellik local desire lille	Extend concrete path	2023 2030	Sinc	240	\$202,500
	Jarrahdale	Kingsbury Drive	Rd and George St	Local	Local connectivity	Extend concrete path	2025-2030	Shire	224	\$156,800
		, , , , , , , , , , , , , , , , , , ,	Install a link between Jarrahdale		, i	· ·				, in the second second
	Jarrahdale	Brady Road	Rd and George St	Local	Local connectivity	Extend concrete path	2025-2030	Shire	275	\$192,500
Ξ	Jarrahdale	Munro/George St	Maintain-concrete-path	Local	Connects skate park and Jarrahdale PS	Maintain-existing	Ongoing	Shire	515	
			Install a link between Jarrahdale		Connection to					
	Jarrahdale	Millars Road	Rd and Rail Trail	Local	Langford Park	Install shared red asphalt path		Shire	1,900	
ID	Locality	Location	Recommendation	Route Type	Specific benefits	Actions	Timing	Responcible Agency	Path Distance (m)	Preliminary Estimated Cost
					Will provide a connection to the					
	Keysbrook	Elliott Road	Install a link between Primary route and SW Hwy	Local	Keysbrook Fire Station Hall and future playspace on corner	n Install shared red asphalt path	After 2030	Shire	730	\$551,150
ID	Keysbrook Locality	Elliott Road	route and SW Hwy Recommendation	Local Route Type	Keysbrook Fire Station Hall and future playspace on corner		After 2030	Shire Responcible Agency	730 Path Distance (m)) \$551,150 Preliminary Estimated Cost
ID			route and SW Hwy		Keysbrook Fire Station Hall and future playspace on corner of Elliott Rd/SW Hwy	Install shared red asphalt path Actions				, , , , , , , , , , , , , , , , , , ,
ID	Locality		Recommendation Maintain footpath-between Paterson-and-Butcher-Streets		Keysbrook Fire Station Hall and future playspace on corner of Elliott Rd/SW Hwy Specific benefits Provide connection to primary-school Provide-connection to	Install shared red asphalt path Actions Maintain-existing-footpath				Preliminary Estimated Cost
ID	Locality Mundijong	Location Livesey-St	Recommendation Maintain-footpath-between Paterson-and-Butcher-Streets Maintain-link-along-boundary-of	Route Type	Keysbrook Fire Station Hall and future playspace on corner of Elliott Rd/SW Hwy Specific benefits Provide connection to primary-school Provide-connection-to primary-school-and	Install shared red asphalt path Actions Maintain existing footpath	Timing Ongoing	Responcible Agency Shire	Path Distance (m)	Preliminary Estimated Cost
ID	Locality Mundijong	Location	Recommendation Maintain-footpath-between Paterson-and-Butcher-Streets Maintain-link-along-boundary-of primary-school	Route Type	Keysbrook Fire Station Hall and future playspace on corner of Elliott Rd/SW Hwy Specific benefits Provide connection to primary-school Provide connection to primary-school-and oval	Install shared red asphalt path Actions Maintain-existing footpath Maintain-existing footpath Install-standard-maze-and-link	Timing	Responcible Agency	Path Distance (m)	Preliminary Estimated Cost
ID	Locality Mundijong Mundijong	Location Livesey-St	Recommendation Maintain-footpath-between Paterson-and-Butcher-Streets Maintain-link-along-boundary-of	Route Type	Keysbrook Fire Station Hall and future playspace on corner of Elliott Rd/SW Hwy Specific benefits Provide connection to primary-school Provide connection to primary-school-and oval	Install shared red asphalt path Actions Maintain existing footpath Maintain existing footpath	Timing Ongoing	Responcible Agency Shire Shire	Path Distance (m)	Preliminary Estimated Cost

				Access to school,					
		Extend existing PSP to SJ		completes missing					
Mundijong	Soldiers Road	Grammar School Entry Install link along boundary of	Primary	link Provide connection to	Install short segment of PSP	Before 2025	Shire/DoT/PTA	500	\$457,500
Mundiione	Butcher Street	primary-school	Local	primary-school	Provide-concrete-footpath	Before 2025	Shire	233	\$163,10
,,		,		Connects Primary	,				, ,
		Install link between Railway PSP		School and two north					
Mundijong	Richardson Street east	and Butcher Street	Local	south-routes	Install shared red asphalt path-	Before 2025	Shire	350	\$264,25
, ,		Install link between Paterson							
Mundijong	Cockram Street	and Adonis Streets	Local	Connects oval	Install shared red asphalt path-	Before 2025	Shire	600	\$453,00
		Install link between Butcher							
Mundijong	Richardson Street west	Street and Tonkin Hwy PSP	Local	Completes link	Install shared red asphalt path	2025-2030	Shire	1,240	\$936,20
		Ensure crossing is not blocked		Ensures connectivity	Install footbridge over rails or				
Mundijong	Richardson Street	by standing trains	Grossing-	across the town	move-siding	2025-2030	PTA/ARC	0	-
		Extend link from Watkins Rd to	_	Connects the two					
Mundijong	Railway reserve	Serpentine	Primary	townsites	Install shared red asphalt path	2025-2030	Shire/PTA	7370	\$6,743,55
		Install link between Cockram							
Mundijong	Adonis Street	Street and Mundijong Road	Local	Provides connectivity	Install shared red asphalt path	After 2030	Shire	850	\$641,75
		Install link from Railway PSP to		East-west					
	Mundijong Road	Shire's western boundary	Secondary	connectivity	Install shared red asphalt path	After 2030	Shire	8,970	\$7,265,70
Mundijong	Muliuljong Koau								
Mundijong Locality	Location	Recommendation	Route Type	Specific benefits	Actions	Timing	Responcible Agency	Path Distance (m)	Preliminary Estimated Cost
, ,				Specific benefits Local connectivity	Actions Maintain existing path	Timing Ongoing	Responcible Agency Shire	Path Distance (m)	
Locality	Location	Recommendation	Route Type						-
Locality Serpentine	Location Lefroy-Street	Recommendation Maintain-existing path	Route Type Local	Local connectivity	Maintain existing path	Ongoing	Shire	1,940	-
Locality Serpentine	Location Lefroy-Street	Recommendation Maintain-existing path	Route Type Local	Local connectivity Local connectivity	Maintain existing path	Ongoing	Shire	1,940	-
Locality Serpentine	Location Lefroy-Street	Recommendation Maintain-existing path	Route Type Local	Local connectivity Local connectivity Tourism potential,	Maintain existing path	Ongoing	Shire	1,940	-
Locality Serpentine	Location Lefroy-Street Leslie-Street	Recommendation Maintain-existing path	Route Type Local	Local-connectivity Local-connectivity Tourism potential, also services Holiday	Maintain-existing path Maintain-existing path	Ongoing	Shire	1,940	-
Locality Serpentine Serpentine	Location Lefroy-Street Leslie-Street	Recommendation Maintain existing path Maintain existing path	Route Type Local	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road,	Ongoing	Shire	1,940	
Locality Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup	Recommendation Maintain existing path Maintain existing path Install link between railway and	Route Type Local Local	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and	Ongoing Ongoing	Shire Shire	1,940 434	
Locality Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup	Recommendation Maintain existing path Maintain existing path Install link between railway and	Route Type Local Local	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end	Ongoing Ongoing	Shire Shire	1,940 434	
Locality Serpentine Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup	Recommendation Maintain-existing path Maintain-existing path Install link between railway and SW Hwy	Route Type Local Local Secondary	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a	Ongoing Ongoing	Shire Shire	1,940 434	\$1,134,00
Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road	Recommendation Maintain-existing path Maintain-existing path Install link between railway and SW Hwy Create trail route to Serpentine	Route Type Local Local Secondary Trail/	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary	Ongoing Ongoing Before 2025	Shire Shire Shire/DoT	1,940 434 1400	\$1,134,00
Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road	Recommendation Maintain-existing path Maintain-existing path Install link between railway and SW Hwy Create trail route to Serpentine	Route Type Local Local Secondary Trail/	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary route	Ongoing Ongoing Before 2025	Shire Shire Shire/DoT	1,940 434 1400	\$1,134,00
Locality Serpentine Serpentine Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road	Recommendation Maintain-existing-path Maintain-existing-path Install link between railway and SW Hwy Create trail route to Serpentine Falls	Route Type Local Local Secondary Trail/	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre Tourism potential	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary route	Ongoing Ongoing Before 2025	Shire Shire Shire/DoT	1,940 434 1400	\$1,134,00
Locality Serpentine Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road Falls Road	Recommendation Maintain existing path Maintain existing path Install link between railway and SW Hwy Create trail route to Serpentine Falls Install pedestrian maze at	Route Type Local Local Secondary Trail/ Secondary	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre Tourism potential Reduce severance and	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary route	Ongoing Ongoing Before 2025 Before 2025	Shire Shire Shire/DoT Shire	1,940 434 1400	\$1,134,00
Locality Serpentine Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road Falls Road	Recommendation Maintain-existing path Maintain-existing path Install link between railway and SW Hwy Create trail route to Serpentine Falls Install-pedestrian-maze at existing-level-crossing	Route Type Local Local Secondary Trail/ Secondary	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre Tourism potential Reduce severance and barriers-to-walking	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary route	Ongoing Ongoing Before 2025 Before 2025	Shire Shire Shire/DoT Shire	1,940 434 1400	\$1,134,00 \$1,433,70
Locality Serpentine Serpentine Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road Falls Road Karnup-Road	Recommendation Maintain-existing path Maintain-existing path Install link between railway and SW Hwy Create trail route to Serpentine Falls Install-pedestrian-maze at existing-level-crossing Install link between railway and	Route Type Local Local Secondary Trail/ Secondary Crossing	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre Tourism potential Reduce-severance and barriers-to-walking Connect townsite with falls	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary route Install-standard-maze	Ongoing Ongoing Before 2025 Before 2025	Shire Shire Shire/DoT Shire	1,940 434 1400 1770	\$1,134,00 \$1,433,70
Locality Serpentine Serpentine Serpentine Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road Falls Road Karnup-Road	Recommendation Maintain-existing path Maintain-existing path Install link between railway and SW Hwy Create trail route to Serpentine Falls Install-pedestrian-maze at existing-level-crossing Install link between railway and	Route Type Local Local Secondary Trail/ Secondary Crossing	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre Tourism potential Reduce severance and barriers-to-walking Connect townsite	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary route Install-standard-maze	Ongoing Ongoing Before 2025 Before 2025	Shire Shire Shire/DoT Shire	1,940 434 1400 1770	\$1,134,00 \$1,433,70
Locality Serpentine Serpentine Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road Falls Road Karnup-Road	Recommendation Maintain existing path Maintain existing path Install link between railway and SW Hwy Create trail route to Serpentine Falls Install pedestrian maze at existing level crossing Install link between railway and SW Hwy	Route Type Local Local Secondary Trail/ Secondary Crossing	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre Tourism potential Reduce-severance and barriers-to-walking Connect townsite with falls	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary route Install-standard-maze	Ongoing Ongoing Before 2025 Before 2025 Before 2025	Shire Shire Shire/DoT Shire	1,940 434 1400 1770	\$1,134,00 \$1,433,70 \$1,109,70
Locality Serpentine Serpentine Serpentine Serpentine Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road Falls Road Karnup-Road Karnup-Road	Recommendation Maintain existing path Maintain existing path Maintain existing path Install link between railway and SW Hwy Create trail route to Serpentine Falls Install pedestrian maze at existing-level crossing Install link between railway and SW Hwy Install link between Railway PSP	Route Type Local Local Secondary Trail/ Secondary Crossing Secondary Secondary	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre Tourism potential Reduce-severance-and barriers-to-walking Connect townsite with falls Connection between	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary route Install-standard-maze Install shared red asphalt path	Ongoing Ongoing Before 2025 Before 2025 Before 2025	Shire Shire/DoT Shire PTA/ARG Shire	1,940 434 1400 1770 50 1,370	\$1,134,00 \$1,433,70 \$1,109,70
Locality Serpentine Serpentine Serpentine Serpentine Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road Falls Road Karnup-Road Karnup-Road	Recommendation Maintain existing path Maintain existing path Maintain existing path Install link between railway and SW Hwy Create trail route to Serpentine Falls Install pedestrian maze at existing level crossing Install link between railway and SW Hwy Install link between Railway PSP and Tonkin Hwy PSP	Route Type Local Local Secondary Trail/ Secondary Crossing Secondary Secondary	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre Tourism potential Reduce-severance-and barriers-to-walking Connect townsite with falls Connection between	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary route Install-standard-maze Install shared red asphalt path	Ongoing Ongoing Before 2025 Before 2025 Before 2025 After 2030	Shire Shire/DoT Shire PTA/ARG Shire	1,940 434 1400 1770 50 1,370	\$1,134,00 \$1,433,70 \$1,109,70 \$3,426,30
Locality Serpentine Serpentine Serpentine Serpentine Serpentine Serpentine	Location Lefroy-Street Leslie-Street Wellard Street, Karnup Road Falls Road Karnup-Road Karnup Road east Karnup Road West	Recommendation Maintain-existing-path Maintain-existing-path Maintain-existing-path Install link between railway and SW Hwy Create trail route to Serpentine Falls Install-pedestrian-maze at existing-level-crossing Install link between railway and SW Hwy Install link between Railway PSP and Tonkin Hwy PSP Install link between Leslie St and	Route Type Local Local Secondary Trail/ Secondary Crossing Secondary Secondary	Local-connectivity Local-connectivity Tourism potential, also services Holiday Park, General Store and Community Centre Tourism potential Reduce-severance and barriers-to-walking Connect townsite with falls Connection between key N-S routes	Maintain-existing path Maintain-existing path Re-seal path on Karnup Road, construct bike parking and repair station at each end To be developed either as a trail route or as a secondary route Install-standard-maze Install shared red asphalt path	Ongoing Ongoing Before 2025 Before 2025 Before 2025 After 2030	Shire Shire/DoT Shire PTA/ARC Shire Shire	1,940 434 1400 1770 50 1,370 4,230	-

ID	Locality	Location	Recommendation	Route Type	Specific benefits	Actions	Timing	Responcible Agency	Path Distance (m)	Preliminary Estimated Cost
	Whitby	Keirnan Street	Link Whitby Falls with the emerging Whitby urban development	Local	Access to University campus, supports future urban development	Install asphalt path between Tinspar Avenue and South West Highway	Before 2025	Shire/DoT	2.140	\$1,615,700
	·		Install link between Keirnan St		Will provide a connection for the new Whitby residential	Extend existing on-road cycle	0005 0000		·	
	Whitby	Skyline Boulevarde	and new east-west road	Local	development	lanes	2025-2030	Developer	860	
	Whitby	Evelyn/Galvin Road	Install link from Railway PSP to Keirnan St	Local	Connection along southern edge of new residential area	Install shared red asphalt path	2025-2030	Developer	1,370	\$1,034,350
			Install link between new East-		Will provide a connection along eastern edge of new					
	Whitby	New North-South Road	West Road and Tonkin Hwy PSP Install link between new east-	Local	development Connects two east-	Install shared red asphalt path	2025-2030	Developer/Shire	3,700	\$2,793,500
	Whitby	Taylor Road	west road and Bishop Road	Local	west routes	Install shared red asphalt path	2025-2030	Developer	625	\$471,875
	Whitby	South Western Highway	Install link between Falls Rd and	Local	Provides connection from Jarrahdale rial trail to east-west routes	Install shared red asphalt path	2025-2030	Shire	992	\$748.960
	ŕ		Install link from New North-		Connects new residential development on east side of railway with new development on					
	Whitby	New East-West Road	South Road to Taylor Road	Local	west side	Install shared red asphalt path	2025-2030	Developer	2,770	\$2,091,350

Figure 3.2 - 2020 Walking and Cycling Plan – Implementation Program

Appendix C - Figure 4.1 - Shire of Serpentine Jarrahdale 2022 Community Perception Survey results & Figure 4.2 - Shire of Serpentine Jarrahdale 2022 Community Perception Survey results

^{*}Strikethrough texts are completed projects

Community Action Plan Footpaths, trails and cycleways

Community driven actions

- Provide a more extensive network of well-connected footpaths for the safety of pedestrians, parents with prams, walkers etc.
- Provide a safe system of well-connected cycleways to encourage safe cycling for commuting and leisure.
- Keep all footpaths and cycleways clean and well maintained so they are safe for all users.
- · Create more bushwalks, trails and bridle paths.

Community Voices

"Once you leave any of the townsite's main areas, there is little or no evidence of footpaths, trails and cycleways."

"We don't have footpaths in our street, so people need to walk on the road, which is a hazard."

"The majority of footpaths within the town of Byford are in poor condition, making walking with a pram or walker difficult at times."

"Footpaths in old Byford are in disrepair & tripping hazards."

"Footpaths need to be put in place in Serpentine downs, and the existing footpaths need to be cleaned. Either covered in rocks or debris from trees."

"Hardly any trials or paths to be enjoyed in our area, please create an attractive area.

It's not even possible to walk or cycle to our nearest town, Armadale."

"Provide safe trails and cycle paths so that people of all ages can ride bikes safely and stay off the roads."

"Safe cycleways along the major roads and streets so kids/parents can go to shops, schools etc., without running the risk of being hit by cars or trucks."

"There should be more footpaths to encourage people to get out, up and walk safely. More trails and cycleways will encourage people to get out, exercise, and socialise, building a strong and safer community."

"This is an active community, but there is only so far we can walk, cycle or scoot with our kids. The pathways are clogged with rubbish and weeds and in the dark mornings of winter, are poorly lit."

"Mow the grass on the trails. Especially the one between Rowley, Masters, Thomas and Hopkins Road. It's close to snake season, and lots of people use those paths daily."

"Develop better co-use bridle trails and path management outside of Byford. Stop blocking trails that are used by all and/or making access unsafe due to being too narrow or too overgrown."



Figure 4.1 – Shire of Serpentine Jarrahdale 2022 Community Perception Survey results

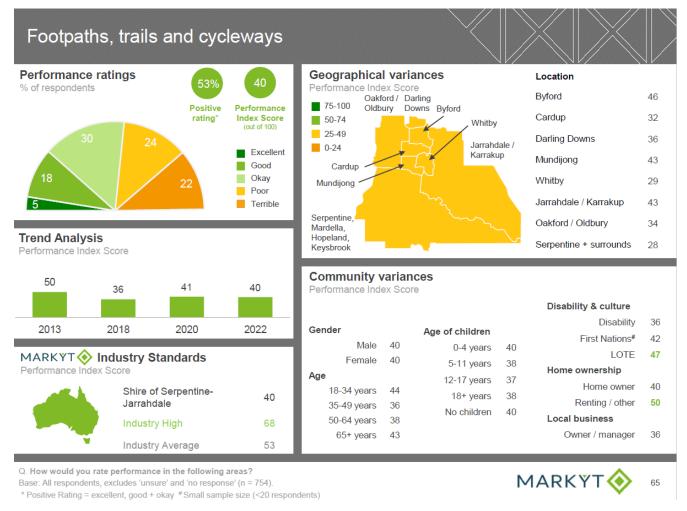


Figure 4.2 – Shire of Serpentine Jarrahdale 2022 Community Perception Survey results

Appendix C - Figure 4.3 - Shire of Serpentine Jarrahdale Asset Management Strategy Risk Register

			ped				Ris	k Ass	essme	ent		(e)		tigation strategies the risk rating if r	equired)
Risk Description	Causes	Consequences	Objective Threatened	Risk Owner	Controllability	Controls	Consequence Category	Consequence	Likelihood	Risk Rating	Control Rating	Acceptability (refer risk appetite)	Action *indicates a key project	Responsible Officer	Target Date
Unclear level of service / knowledge of community need	Lack of Councillor buy-in Population growth Suitability of historical assets Volume of Councillor requests Lack of strategic direction / community representation No understanding of current level of service Lack of criteria to determine level of service Lack of renewal programs	Inconsistent application of maintenance costs (e.g. overspends and underspends Community Dissatisfaction (reputation) Early onset deterioration of assets	-	AM-TAG	Controllable	Community Perceptions Survey Action Request System Budget Process and allocation of resources	Reputation / Financial	Moderate	Likely	SIGNIFICANT	Inadequate	Action Required	Maintenance Service Level Plan (Refer CBP) Rationalisation of Assets (Refer CBP) OneComm Works Asset Module OneComm CRM module Monthly Reporting Finance and Assets and Works	Manager Operations Director Infrastructure Services OneComm Asset Key User OneComm CRM Key User Manager Finance	30 June 2021 30 June 2022 30 April 2021 31 May 2021 30 June 2021
Assets life- cycle costs are not budgeted	Inadequate Methods of calculation due to lack of availability of data Not planning for life cycle costs from the outset (e.g. council reports) Community education and the impact of rapid growth	Inadequate renewal programs Inability to forecast real costs	4	AM-TAG	Controllable	Budget Process and allocation of resources AM-TAG Business Case Template including life cycle cost estimates	Financial	Major	Unlikely	MODERATE	Adequate	Action Required	Council Report Update (Refer Infrastructure Service Team Plan)	Director Infrastructure Services	30 June 2021

Page 1 of 3 F21/2310

			peu				Ris	k Ass	essme	ent		E)		tigation strategies the risk rating if re	
Risk Description	Causes	Consequences	Objective Threatened	Risk Owner	Controllability	Controls	Consequence Category	Consequence	Likelihood	Risk Rating	Control Rating	Acceptability (refer risk appetite)	Action *indicates a key project	Responsible Officer	Target Date
Poor financial manageme nt	Poor budgeting of asset maintenance and renewal costs Unclear roles and responsibilities Political pressure to deliver unplanned infrastructure Lack of preplanning for projects	Unfunded projects Poor community outcomes e.g. asset delivery, inadequate level of service Negative community perception / reputation damage Reactive works rather than proactive	ΙV	Executive Management Group	Controllable	Integrated Planning and Reporting Framework (Budget, CBP, Asset Management Strategy, LTFP etc.) Asset Management Plans Database of asset and financial information (OneComm) AM-TAG Advocacy Strategies	Financial	Major	Possible	SIGNIFICANT	Adequate	No - Action Required	Implement Asset Data Integration and Reporting		

Page 2 of 3 E21/2310

			peu				Ris	k Ass	essme	ent		(e)		tigation strategies the risk rating if r	equired)
Risk Description	Causes	Consequences	Objective Threatened	Risk Owner	Controllability	Controls	Consequence Category	Consequence	Likelihood	Risk Rating	Control Rating	Acceptability (refer risk appetite)	Action ¹indicates a key project	Responsible Officer	Target Date
Inadequate record keeping on asset inspections, maintenanc e, renewals and decision making	Inconsistent application of record keeping technologies Lack of streamlined / integrated processes for asset management across whole business Lack of resources to implement processes and systems	Staff Retention / turnover from frustration Uninformed decisions Ineffective expenditure of funds i.e. capital upgrade vs ongoing maintenance	ΙV	Director Infrastructure Services	Controllable	Asset Management Strategy and Improvement Action Plan Asset Register OneComm Review and verification of renewals identified in Asset Management Plans jointly between operations team and asset coordinator	Organisational Performance / Financial	Moderate	Almost Certain	HGH	Inadequate	No - Action Required	Coordinate the AM-TAG to implement AMS actions Implement Works Module in OneComm Implement a resourced (people and process) structure that covers the review and implementation process for asset management	Asset Management Coordinator OneComm Asset Key User Director Infrastructure Services	June 2024 April 2021 June 2022
Lack of knowledge of the Assets the Shire has	Data gaps and missing assets Lack of process for identification Lack of communication between business units when new assets are recognised	Unmaintained assets Inadequate information for forward planning renewals Liability Uninformed decisions	1,2,3	Asset Management Coordinator	Controllable	Four Year Asset Condition Inspection Program Handover process of assets for subdivisions and capital works	Organisational Performance	Moderate	Possible	MODERATE	Adequate	No - Action Required	Begin implementing the condition survey program for each asset class (subject to works in OneComm)	Asset Management Coordinator	June 2021

Page 3 of 3 E21/2310

Figure 4.3 - Shire of Serpentine Jarrahdale Asset Management Strategy Risk Register