

Solid Waste

LTP Council Workshop
4 July 2023

Contents

1. New Legislation
2. WasteNet and New Legislation
3. WasteNet Update
4. Waste Contracts
5. Asset Management
6. Level of Service
7. Requirements to Maintain Compliance
8. Measuring Performance
9. Future Activities

Activity Type

Service Type	WasteNet Activity	Invercargill City Council (ICC) Only Activity
Rubbish Collection (C550)	✓	
Rubbish Disposal (C5/279)	✓	
Transfer Station Services (C550)		✓
Recycling Services (C1057)		✓
Closed Landfill		✓
Education and Communication	✓	

New Legislation Changes

New legislation changes announced 29 March 2023:

1. Standardised acceptable recyclables by 2024
2. Residential kerbside recycling services by 2027
3. Residential food scrap collection by 2030
4. Business food scrap collection-ready by 2030

Kerbside changes when are they happening?



Figure B

From February 2024, only the following will be collected for recycling.

Materials for kerbside collection:



Glass bottles and jars



Paper and cardboard



Plastic bottles and containers 1, 2, and 5



Aluminium and steel tins and cans

Figure A

WasteNet and New Legislation

- Review of Waste Minimisation and Management Plan (WMMP) to align with new legislation
- Strengthen our focus on education and communication
- New standards for the amount of household waste diverted from landfill:
 - 30% by 2026
 - 40% by 2028
 - 50% by 2030

Local government

- ▶ Use this strategy to develop your next waste management and minimisation plan
- ▶ Work with other councils on new, or expanded, facilities and services
- ▶ Support local community groups and non-governmental organisations to reduce waste
- ▶ Link with national behaviour-change programmes
- ▶ Factor waste management infrastructure and services into planning and consenting processes
- ▶ Identify and manage vulnerable landfills and other contaminated sites

Regulatory and reporting timeline



Figure C

WasteNet Update

- WasteNet Chair - Cr Keith Hovell of Gore District Council (GDC)
- WasteNet Deputy Chair - Mayor Mr. Ben Bell of GDC
- First Waste Advisory Group (WAG) meeting held 15 May 2023
- Reporting format changed to WasteNet and presented to the WAG
- Waste minimisation education strategy and action plans (activities and timelines) approved by WasteNet
- FY2023/2024 WasteNet budget approved by WAG



Waste Contracts

Contract 550 – Kerbside Collection and Transfer Station Services:

- Contract with Bond Contracting Ltd.
- Contracted until 30 June 2027

Upcoming Activity

- Glass kerbside collection FY2024/2025

Future Activities for Considers

- Organics Kerbside Collection Services FY2029/2030
- Update technology to deliver smart data and bin weights

Contract 5/279 – Landfill Services:

- Contract with AB Lime Ltd
- Contracted until 09 July 2028

Waste Contracts (cont.)

Contract 1057 – Recyclables Acceptance Contract:

- Contract with Recycle South
- Contract in place until 30 June 2025, opportunity for 2-year extension
- Contract has provision to service all Southland Councils

Upcoming Activity

- Kerbside Standardisation of Recyclables by February 2024 (increased education / communication)

Challenges

- Recyclables markets are increasingly limited
- Improved quality requirements of recyclables
- New legislation change compliance likely to increase costs

Health and Safety - Waste collection, treatment, and disposal services are defined by the Health and Safety at Work (Worker Engagement, Participation, and Representation) Regulations 2016 as one of ten high-risk industries in New Zealand.

Asset Management

ASSET AREA	ASSET DEVELOPMENT
Closed Landfill (New River Estuary)	• Ongoing monitoring for consent compliance • Working in collaboration with Environment Southland to effectively and efficiently meet the regulatory changes • Estimated cost of \$100k for engaging an external consultant, with ICC to fund and Environment Southland potentially contributing up to 50% of the funding. • Future testing costs unknown • Future remedial works unknown
Invercargill Transfer Station	• Upgrade transfer station to a “Resource Recovery Park” to collect, separate and transfer recyclable materials and residual waste (landfill-rubbish). • Undertake initial business case and investigate funding options including MfE • Estimated planning cost of \$400K
Mobile Bins	• The strategy is to extend the kerbside collection area over time in response to legislative requirements and customer demand.
Public Litter Bins	• Refer to the Roding Activity Management Plan for further information on the public place (street) receptacles.

Current Budget

	Annual Plan 2023/2024	
	(\$000)	
<u>Operational</u>		
Targeted rates revenue	4,445	30%
General rates revenue	924	6%
Other revenue (excluding capital subsidy revenue)	9,298	63%
	14,667	
Operational expenditure (excluding depreciation)	14,648	
Depreciation expenditure	492	
	15,140	
<u>Capital</u>		
Capital subsidy revenue	0	
Capital expenditure		
• to improve the level of service	0	
• to replace existing assets	82	
	82	
Staff levels (excludes Casuals and Elected Members)		
FTE	2	
Head Count	2	

Level of Service

COMMUNITY OUTCOME	COUNCIL'S ROLE IN ACHIEVING	HOW SOLID WASTE CONTRIBUTES	CUSTOMER LEVEL OF SERVICE	MEASURE OF SERVICE
Social Wellbeing - One Community – Our youth, older people, different neighbourhoods and communities' basic needs are met, and they feel valued and proud to live here. Cultural Wellbeing - A vibrant, safe city centre which meets our people's diverse cultural needs. Environmental wellbeing - A healthy, resilient environment where the city is well positioned to navigate climate change. Economic wellbeing - A future focused economy delivered through innovation and partnership and supported by appropriate infrastructure.	The building blocks, including water, sanitation and roading, for a safe friendly city is provided for all members of the community	• The solid waste activity provides solid waste facilities and services for the sorting, collection, recovery and disposal of waste • The solid waste activity collaborates with other local territorial authorities for the co-ordinated delivery of waste management and minimisation in Southland	• Ensure regular kerbside collection services • Appropriate facility (transfer station and landfill) operating hours • WasteNet shared services and operating mode • Encourage waste minimisation	Comparing trends in recycling and rubbish tonnages (discussed later)

Level of Service (cont..)

- Suburbs currently serviced:
 - Outlying areas not serviced – Council does not plan to consider extending kerbside collection services to suburbs and areas currently unserved including Otatara
 - However, Otatara need to be included by 2027 as per new legislation changes

Link to check whether our towns meet this threshold:

https://utility.arcgisonline.com/arcgis/rest/directories/arcgisoutput/Utilities/PrintingTools_GPServer/xV1rsijnow-OX5TQJ45zMbQ..x?x=619c01fc-1482-11ee-8cf0-128668631e0d.jpg

Source: Improving household recycling and food scrap collection report from MFE

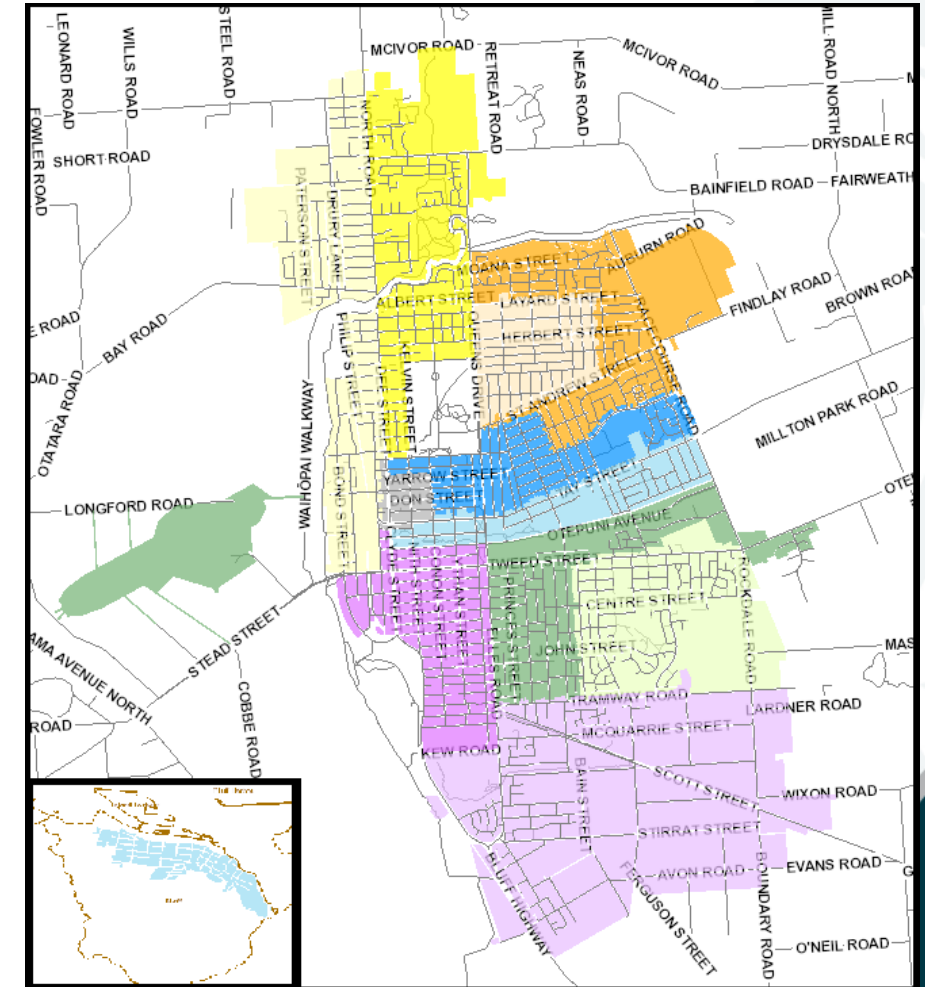
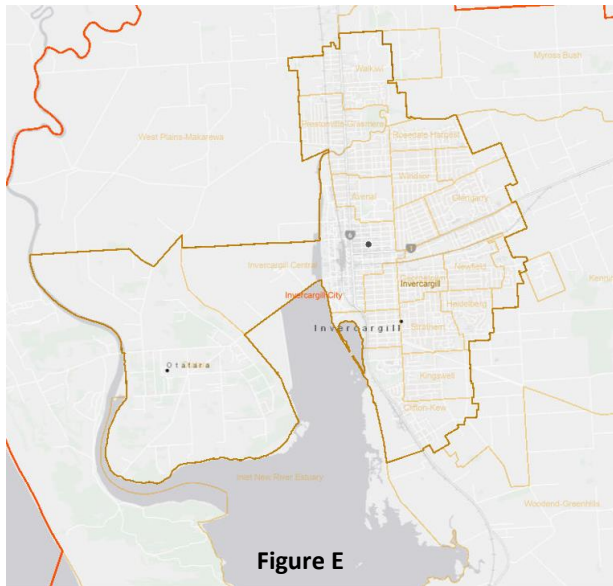


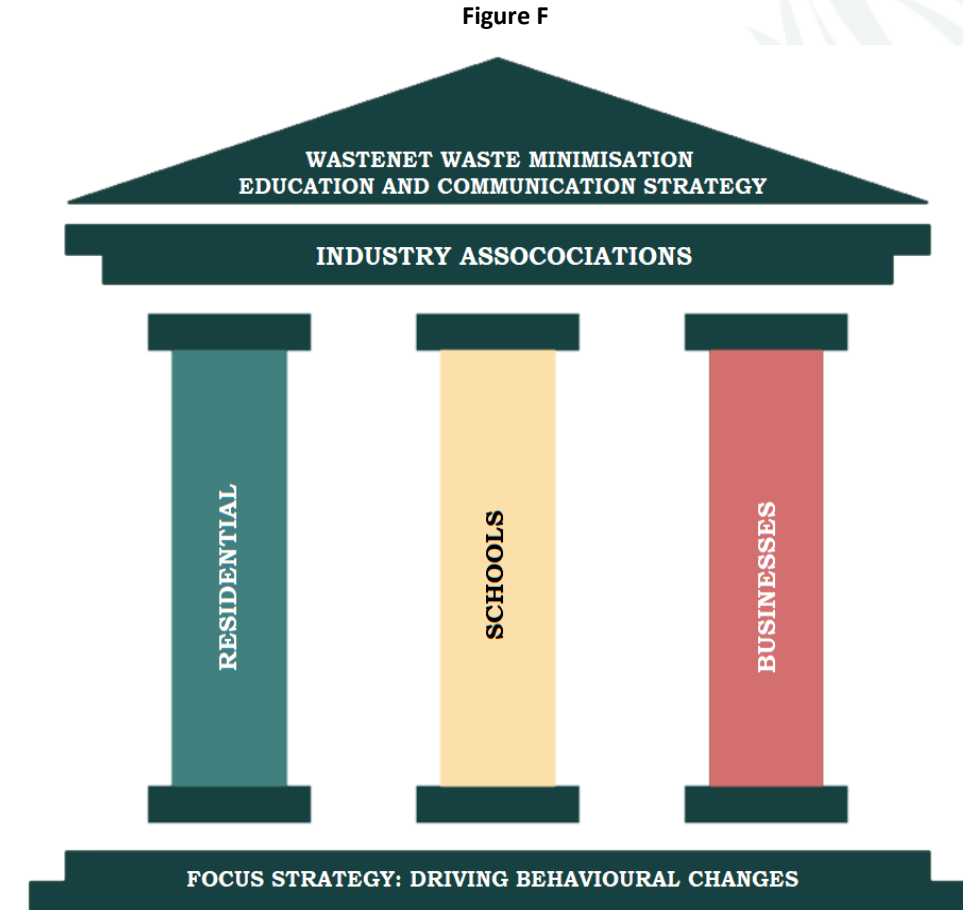
Figure D

New Level of Service - Costs

New Service	Exp Type	Amount	To Select	Options	Description of Service	Reason
Otatara House Collection	Capex	\$321,405			3 Bins, 1500 Households, Setup costs	Legislative, under investigation
Otatara House Collection Ops	Opex		Option ?			
			\$210,000	Option 1	3 Bins, 1500 Households, Red = Weekly, Yellow = Fortnightly, Blue = Fortnightly	
			\$183,750	Option 2	3 Bins, 1500 Households, Red = Weekly, Yellow = Fortnightly, Blue = Monthly	
			\$157,500	Option 3	3 Bins, 1500 Households, Red = Weekly, Yellow = Monthly, Blue = Monthly	
Glass bin initial setup	Capex	\$1,605,470			Roll out 1 July 2024	Council initiative
Glass Bin roll out ops (1 service)	Opex		Option ?			
			\$439,346	Option 1	Roll out 1 July 2024, option 1 (recycling remains fortnightly and add glass fortnightly)	
			\$232,173	Option 2	Roll out 1 July 2024, option 2 (recycling remains fortnightly and add glass monthly)	
			\$25,000	Option 3	Roll out 1 July 2024, option 3 (move recycling from fortnightly to monthly and add glass monthly)	
Reduced Recycling cost	Opex	-			Unknown benefit to contract, will be offset by increase cost of "standardised acceptable" recyclables.	

Level of Service

- Waste minimisation – Education & Budget
- WasteNet has the role of waste minimisation through education and community engagement
 - The WasteNet Waste Minimisation Education and Communication Strategy (WWMECS) has now been developed and approved by WasteNet
 - The FY2023/24 WasteNet Education and Communication budget is now complete and approved by WasteNet



Requirements to maintain compliance

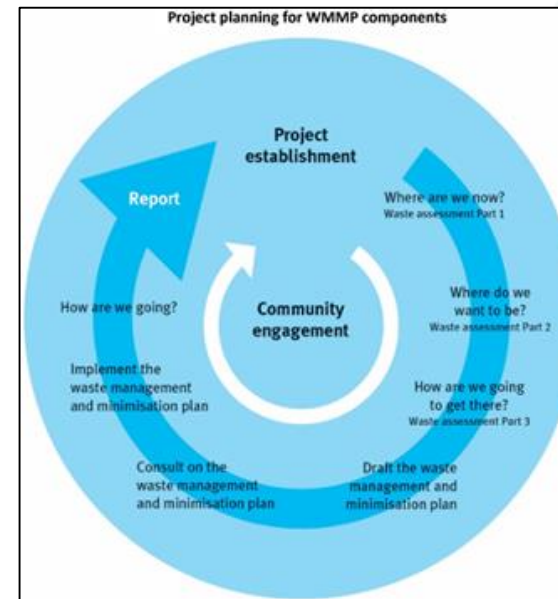
- Standardised acceptable recyclables by 2024
 - Kerbside standardisation communications launching to educate public and drive behaviour change - budgeted for in WasteNet budget
- Residential kerbside recycling services by 2027
 - Extension of collection services to include all households in urban areas, that is towns of 1000 people or more
 - An additional \$500K required for three-bin service (red, yellow and blue) for Otatara.
- Review of WMMP to confirm alignment with new legislation
 - Budgeted in WasteNet Budget
- Operational Compliance – Fly tipping and Littering

Kerbside Standardisation Communications Launch Timeline

Key dates:

- June – focus groups with councils and possible survey
- 31st August – communications plan and campaign concepts
- 31st October – assets for launch on 1st February
- Early December – toolkit and videos

Figure G



Measuring performance

Proposed Three Levels of KPIs

WasteNet	ICC LTP	ICC Internal
Regional discarded materials rate per person per annum (Kgs) <i>Target: < 650 Kg per capita</i>	Trend in Kerbside Recycling (excluding Contamination) <i>Target: Increasing from baseline (previous year)</i>	Actual recycled rate per person per annum (Kg)
	Trend in Kerbside Rubbish Collection <i>Target: Decreasing from baseline (previous year)</i>	Kerbside rubbish collected rate per person per annum (Kg)
	Trend in Solid Waste Discarded to Landfill <i>Target: Decreasing from baseline (previous year)</i>	ICC discarded materials rate per person per annum (Kg)
	Trend in Materials Diverted from Landfill <i>Target: 30% by 2026</i>	Request for Service Turnaround Time (%)

Measuring performance

Levels of Service

The Solid Waste Activity focuses on balancing the social, cultural, environmental and economic factors for the benefits to the wider community through collection of solid waste, and through providing facilities for the sorting, collection and disposal of waste. It enhances our city through the operation of WasteNet Southland as a shared service for the benefit of Southland.

The Solid Waste Activity ensures that collection and disposal services are effectively and efficiently managed to reduce the harmful effects of waste to public health and the environment. The Southland Waste Management and Minimisation Plan monitors the discarded materials rate per person per annum (Kg).

KPIs - CURRENT

Discarded materials rate per person per annum (kgs)

Trend in
kerbside
recycling

Monitoring the
trends in key
material types to
landfill (i.e.
cleanfill
green waste,
recyclables)

Trend in
landfill rubbish

Trend in
solid waste
to landfill

Trend in
diverted
material

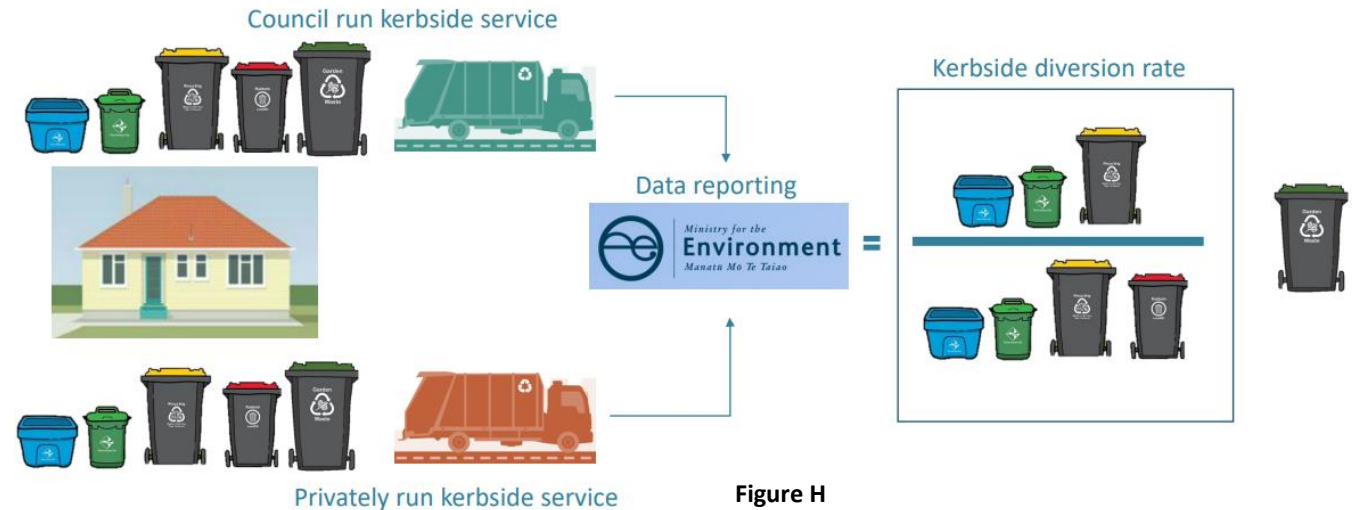
Performance Standard direction from MfE

Kerbside diversion performance standard for providing minimum performance for the effectiveness of kerbside services:

- The standard materials list is being created under Section 49 of the Waste Minimisation Act 2008
- Councils with WMMPs that address kerbside recycling will be required to comply with the gazette notice
- For TAs that fail to comply with the standard set of materials and/or the minimum diversion standards, the council's Waste Levy allocation can be retained

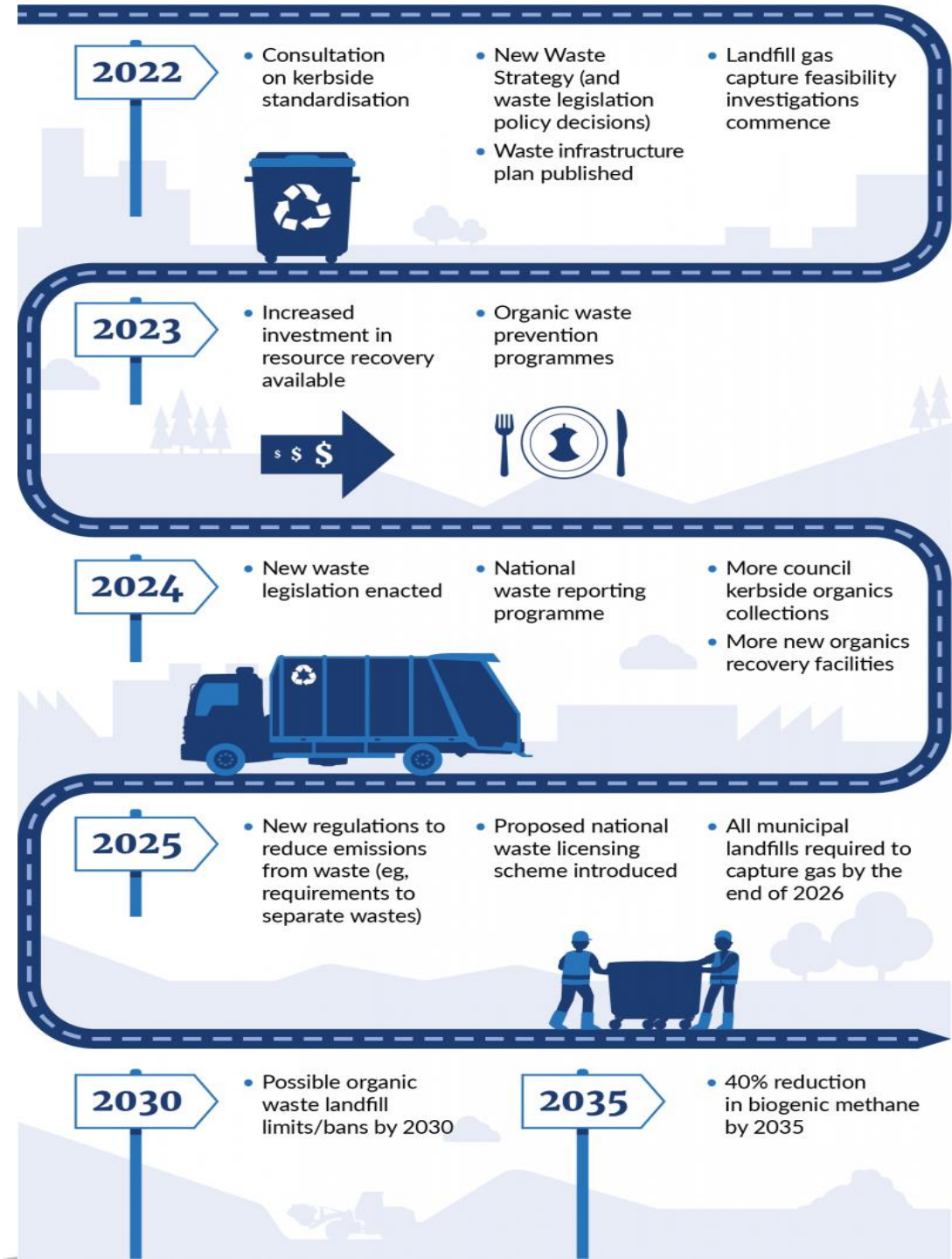
Kerbside diversion performance standard

Intended to provide a minimum performance for the effectiveness of kerbside services in the district



Future Activities

- Fly tipping and Illegal dumping
- E-Waste – fire risks
- Greater access to recycling by 2027
- Food scrap services by 2030



Next Steps

- Decision on Glass collection structure
- Decision on Otatara Kerbside collection
- Awaiting direction from MfE
- Contracts in place in time for implementation of new services