Strategic Planning and the Asset Management Plan An overview

February 2019 Mark Bourne



Fast facts

We manage

\$9 billion

in assets which include:

9096 kilometres of water pipes

15 water treatment plants

93 water pump stations





18 wastewater treatment plants

515 wastewater pump stations

7999 kilometres of wastewater pipes

Facts and figures

Financial responsibility

In the seven years since integration we have invested

\$1.87 billion

in capital work but our debt has increased by just

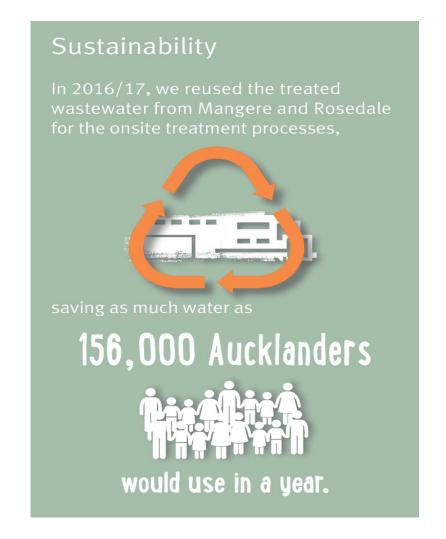


\$368 million

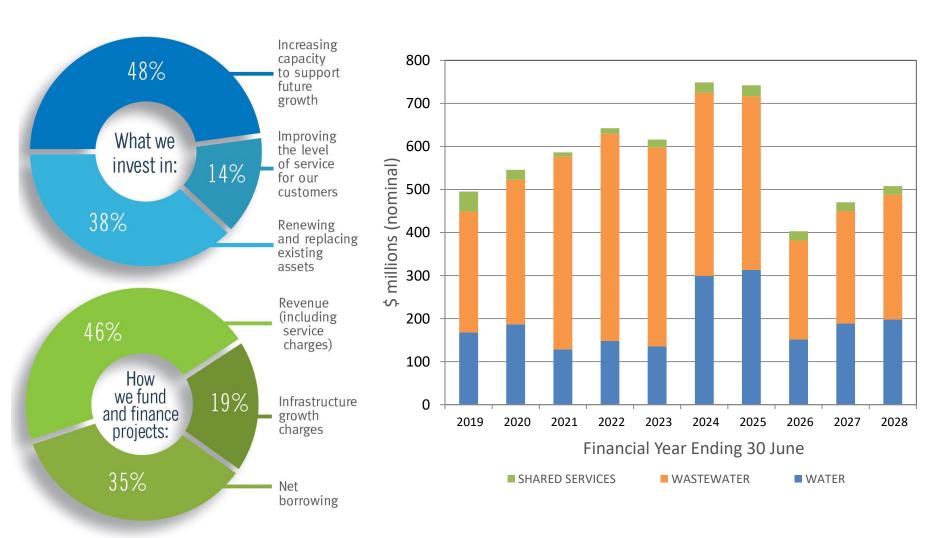
This means that for **every dollar** of our capital expenditure only

\$0.20

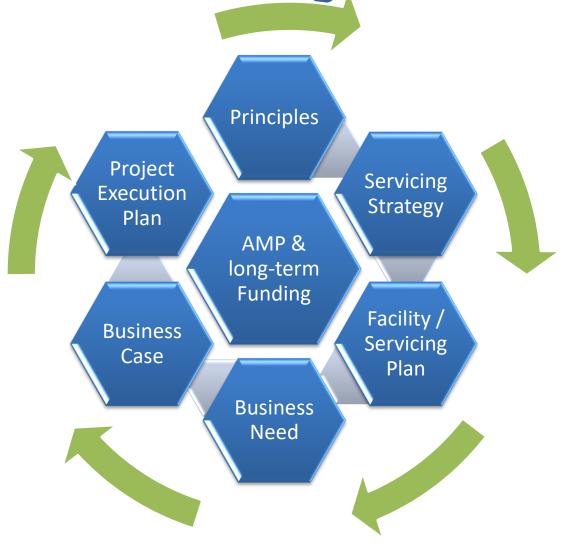
has been funded by debt.
Before integration, this was about \$0.25.



How we plan our infrastructure



Asset Planning Process



Auckland's Projected Growth in the Next 30 Years

LOCATION	NEW DWELLINGS	PEOPLE (MEDIUM GROWTH)	PEOPLE (HIGH GROWTH)	COMPARATOR
Brownfield	270,000	472,500	651,000	2 x Wellington
Greenfield (FUZ)	98,000	157,500	279,000	Hamilton
SHAs	40,000	70,000	70,000	Palmerston North
TOTAL	*408,000	700,000	1,000,000	

^{*} Excludes 14,000 dwellings in rural zones not serviced by Watercare

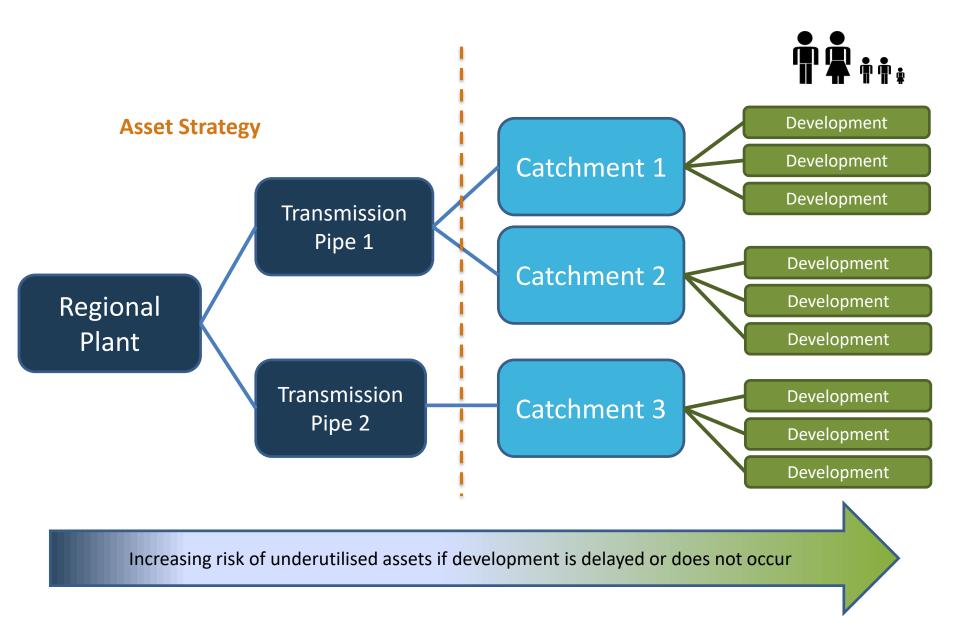


Planned Capacity in the Asset Management Plan

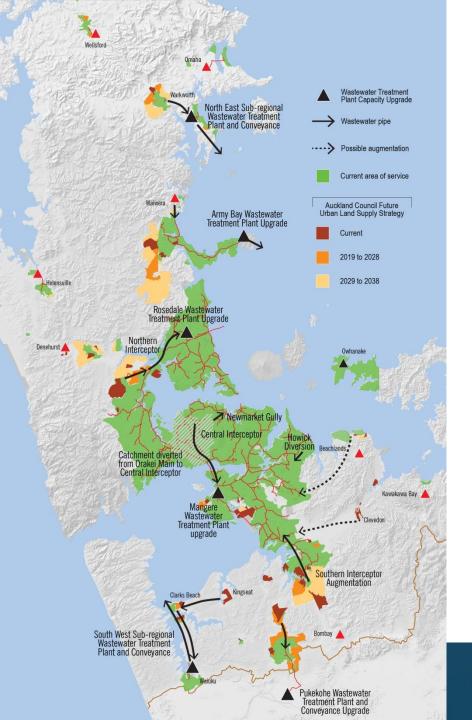
COUNCIL FORECAST GROWTH	DWELLINGS
2017 to 2026	133,000
2026 to 2036	133,000
2037 to 2046	142,000
30 YEAR TOTAL	408,000

WATERCARE CAPACITY	DWELLINGS
Current capacity	55,000
2019 to 2028	155,000
2029 to 2038	90,000
2037 to 2046	110,000
30 YEAR TOTAL	410,000









Strategic Programmes 2019 to 2028

TREATMENT PLANT CAPACITY UPGRADES		
Mangere	Rosedale	
Army Bay	Pukekohe	

NEW SUB-REGIONAL PLANTS & CONVEYANCE

North East (Warkworth and Snells/Algies)

South West (Clarks Beach, Waiuku and Kingseat)

WASTEWATER INTERCEPTORS

Northern Interceptor (Hobsonville to Rosedale)

Northern Interceptor (Westgate to Hobsonville)

Central Interceptor

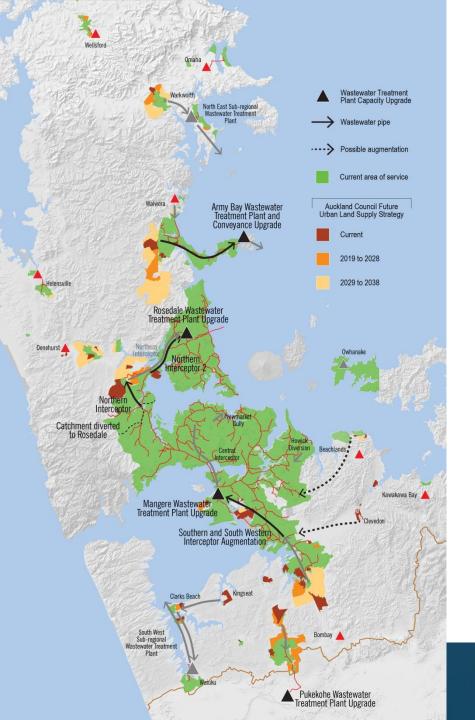
Newmarket Gully

Howick Diversion

Southern Augmentation

Pukekohe





Strategic Programmes 2029 to 2038

TREATMENT PLANT CAPACITY UPGRADES		
Mangere	Rosedale	
Army Bay	Pukekohe	

WASTEWATER INTERCEPTORS

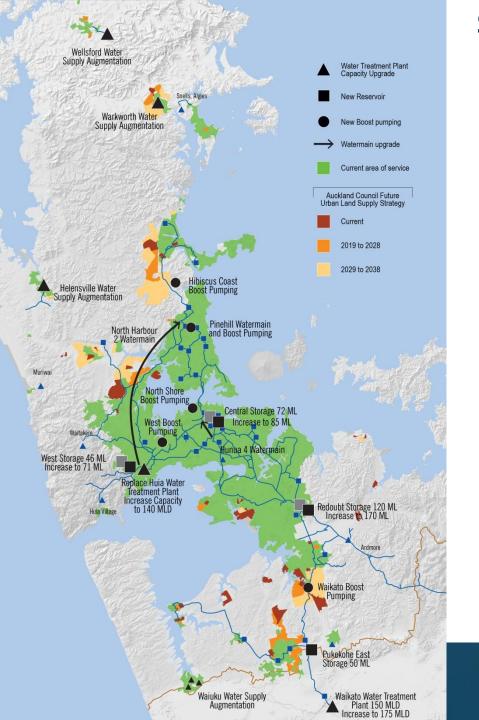
Whangaparaoa Augmentation

Northern Interceptor (Concourse to Westgate)

Northern Interceptor 2 (Hobsonville to Rosedale duplication)

Southern Augmentation





Strategic Programmes 2019 to 2028

TREATMENT PLANTS

Waikato to 175 MLD

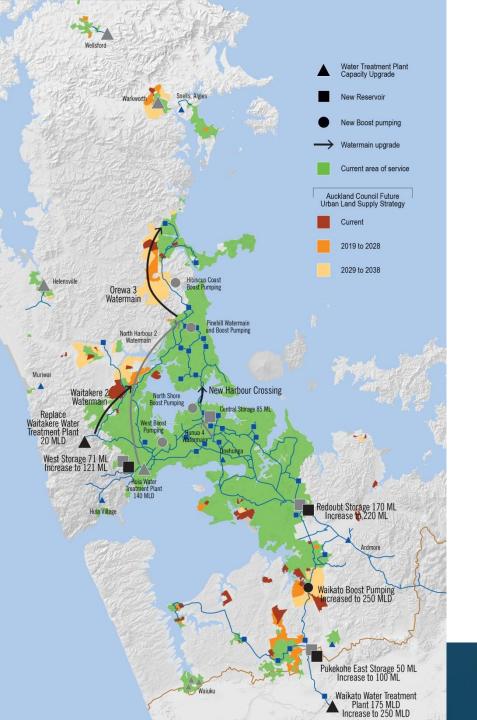
Huia to 140 MLD

ADDITIONAL RESERVOIR STORAGE		
Pukekohe East	Western	
Redoubt	Khyber	

NEW WATERMAINS		
Hunua 4	North Harbour 2	
Huia 1 and Nihotupu 1 replacements		

BOOST PUMPING		
Waikato	West	
North Shore	Pinehill	
East Coast Bay		





Strategic Programmes 2029 to 2038

TREATMENT PLANTS

Waikato to 250 MLD

Waitakere 20 MLD

ADDITIONAL RESERVOIR STORAGE		
Pukekohe East	Western	
Redoubt		

NEW WATERMAINS

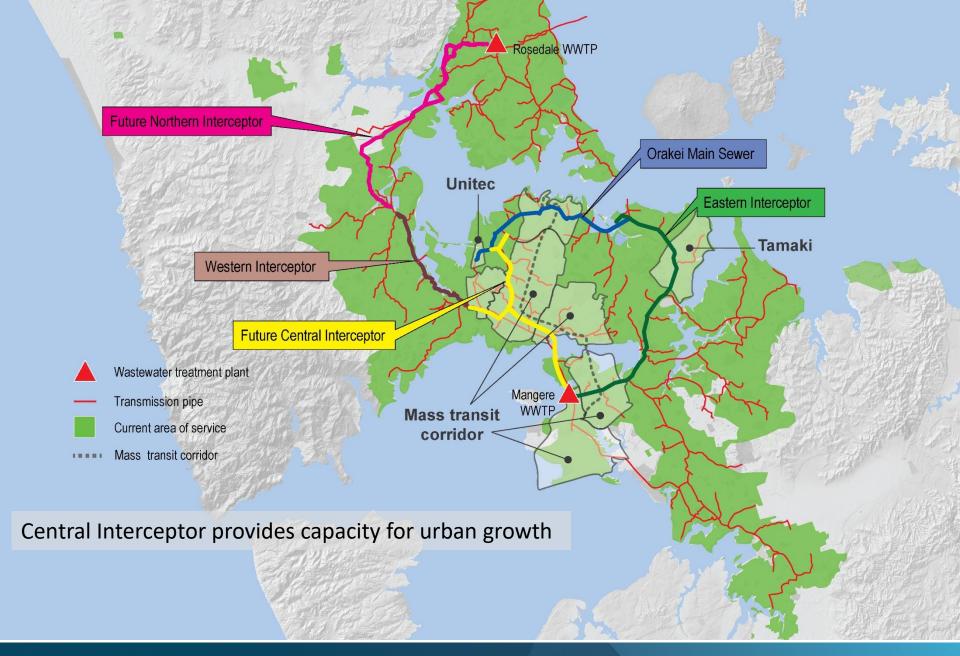
Waitakere 2 replacement

Orewa 3

BOOST PUMPING

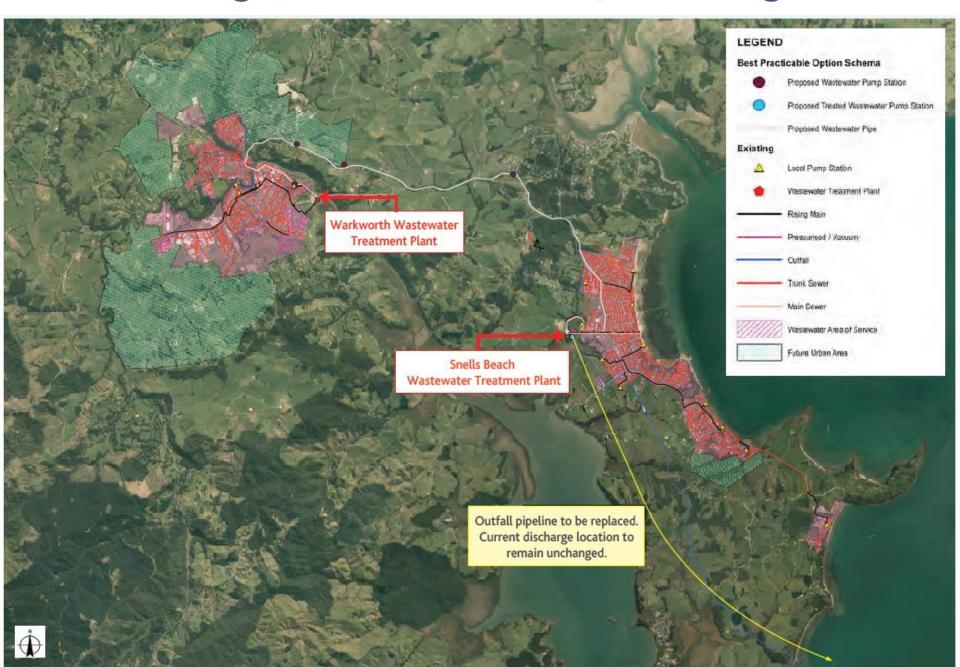
Waikato



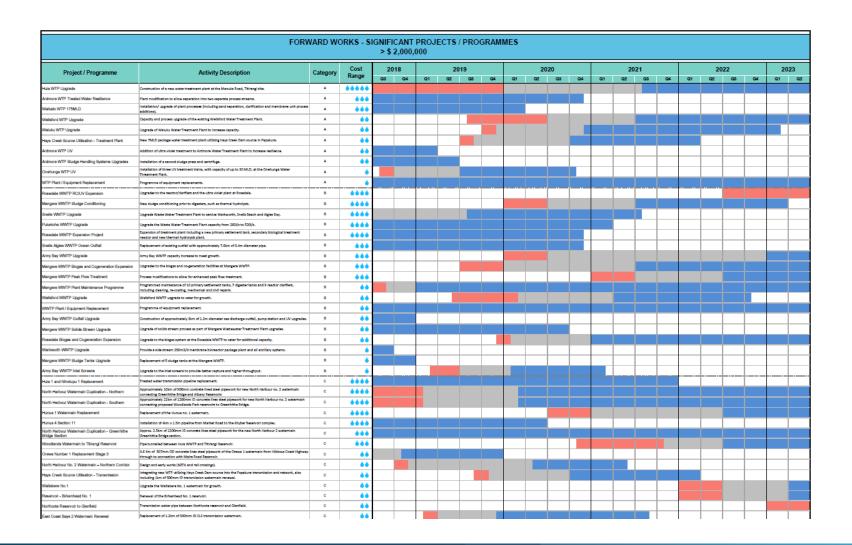




Servicing Growth Warkworth, Snells Algies



Forward Works Programme



Questions and discussion

