

The Story of Ireland's Water

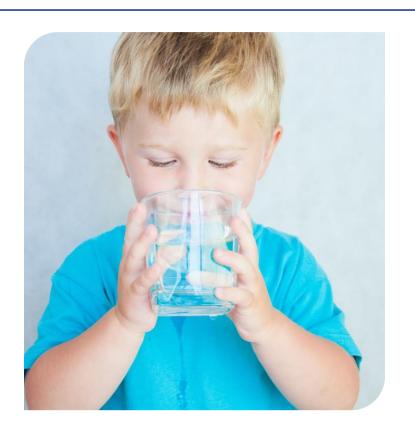
Eamon Gallen
Duane O'Brien



Everyone who works in the water services industry today is working towards the same vision for Ireland's water services

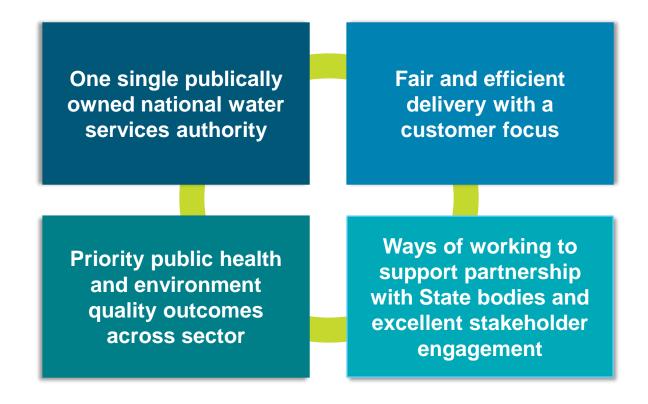


- Clean, safe drinking water for everyone, to the same consistent standard
- Return wastewater safely to our environment
- Protect our environment
- Enable economic and social development



Water Services Policy Statement focuses on 4 Key Principles





Government policy on water is very clearly defined and mirrored in all Irish Water policy documents







We currently deliver 1.7 billion litres of treated water every day...



..to Irish homes









..and Irish businesses

...managing over 7,000 individual assets, many of which are not fit for purpose...









...with 88,000km of water and wastewater pipe to manage 24/7, including leaks...





...while Ireland's demand for water services is growing significantly





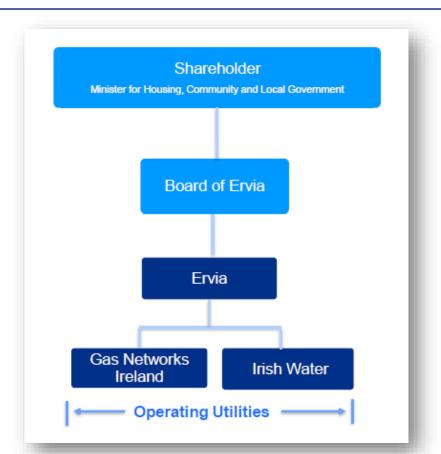






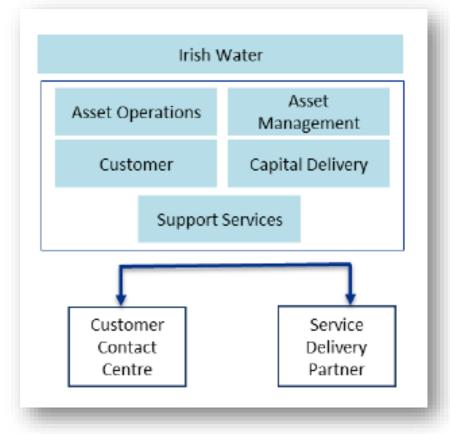
This is how we are structured...







...and this is how we currently operate...



...with extensive and important oversight bodies...





An Roinn Tithíochta, Pleanála agus Rialtais Áitiúil Department of Housing, Planning and Local Government

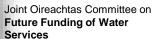


An Roinn Caiteachais Phoiblí agus Athchóirithe Department of Public Expenditure and Reform

NewERA



Joint Oireachtas Committee on Housing Planning & Local Government

























...and staff based around the country...





East/Midlands Region	Dublin City
	Mullingar
West/North West Region	Castlebar
	Cavan Town
	Donegal Town
Southern Region	Mallow
	Limerick City
	Kilkenny City

...to deliver Irish Water Business Plan's key objectives





We will invest €5.5b in Ireland's Infrastructure to protect public health and the environment between 2014-2021.



We will work with our Local Authority partners to transform the water industry into an effective and efficient modern water utility.



We will achieve operational excellence realising €1.1b of cumulative operating efficiencies by 2021.

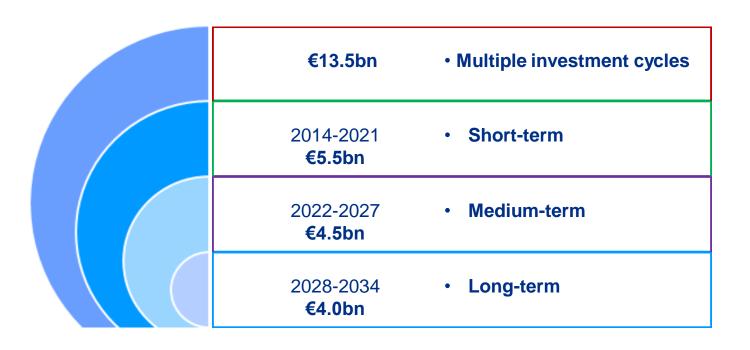
How we prioritize investment



- We use operational information to help to decide when and where to upgrade pipes and develop infrastructure.
- This is based on risk assessment which looks at :
 - the condition of the asset, its age and pressure;
 - the scale of customer impact such as number of people affected, if big businesses or hospitals are on that network; and
 - supporting social and economic growth.
- The overall **scale of funding** is a matter for government having regard to the assessment of needs by Irish Water.

We have estimated it will take many investment cycles to address our water and wastewater issues





Between 2014-2021, we will invest as follows to address the most urgent issues



Capital Investment Plan to 2021		
Drinking Water Quality	€950m	
Drinking Water Capacity	€1,250m	
Waste Water Quality	€1,250m	
Waste Water Capacity	€700m	
Infrastructure	€1,364m	
Total	€5,514m	



2014-2016, we have already invested €1.7 billion



...and this is how Ireland has benefitted to date

Drinking Water

- Boil Water restriction lifted from 145,000 people
- 70 reservoirs cleaned and refurbished
- 840km of new or replaced mains, further 1,000km targeted
- 9 new water treatment plants delivered, 18 upgraded
- 247 Pressure Reduction upgrades reducing leakage
- 880,000 domestic meters installed

Waste Water

- 32 waste water plants upgraded and 27 new plants built
- 350 flow monitoring and sampling sites upgraded
- 436 Plant Optimisation audits and 2,000 improvement recommendations
- 25 priority source control projects to resolve wastewater overloading

Other Efficiencies

- 600 disinfection plants assessed and works commenced
- Over 10,800 Urgent H&S addressed
- 73 Energy Reduction Schemes



These are our continuing Strategic Priorities to 2021

Capital Maintenance (Asset Replacement)

Sewer Flooding

Water Pressure

Water

- Microbiological (BWN & BWN Risk)
 - o Lead
 - Remedial Action List (RAL)
 - Trihalomethanes (THMs)

Wastewater

- ECJ / UWWTD Treatment
 - 44 Locations (2014) with no treatment
- Licence Compliance

Reduce Leakage

Resilience & Headroom

Efficient provision for Growth (Housing)

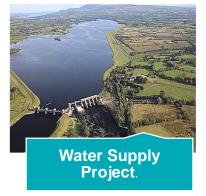
We are making significant investment in large scale critical infrastructure













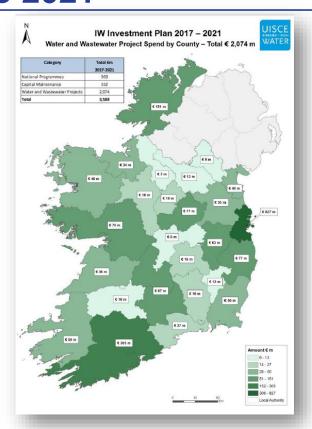




Irish Water in the Southern Region

Proposed Water and Wastewater project spend to 2021





Category	Total €m 2017-2021
National programmes	963
Capital Maintenance	552
Water and Wastewater Projects - Estimated total spend 2017-2021	2,074
 Of which estimated spend in Southern Region is €574m 	
Total	3,588

Water Activities in the Southern Region





Water Quality

72 Schemes on Qtr1, 2018 RAL nationwide 40 Schemes in Southern Region serving 254,224 population Irish Water target is for 19 schemes on RAL end 2018, 4 Schemes on RAL end 2019 and 0 schemes on RAL end 2020

Leakage Reduction

National Leakage Reduction Programme (launched 2017)

Water mains replacement underway in counties Carlow, Cork, Kilkenny, Tipperary and Waterford. Leak detection and Find and Fix underway in Clare & Tipperary and lead replacement in Limerick and Waterford.



40,268 customer notifications issued southern region

37.13 million litres of water saved every day in southern region





National Programmes

National Disinfection

Reservoir cleaning

Dam inspections

Process Optimisation at treatment plants

Lead in Drinking Water Programme – orthophosphate treatment in Clareville

Waste Water Activities in the Southern Region





Waste Water Quality Irish Water is progressing priority projects to address the agglomerations in your region that are currently discharging wastewater without treatment.

These include:

Clare: Ballyvaughan, Clarecastle, Kilkee, Kilrush, Liscannor

Cork Lower Harbour: Cobh, Passage West/Monkstown, Ringaskiddy

Village, Ringaskiddy/Crosshaven/Carrigaline

Cork: Ballycotton, Castletownbere, Castletownsend,

Courtmacsherry/Timoleague, Inchigeelagh, Whitegate, Youghal

Waterford: Ardmore, Dunmore East

Wexford: Arthurstown, Ballyhack, Duncannon, Kilmore Quay

National Programmes

Process Optimisation at Wastewater Treatment Plant Critical Sewer Survey Programme National Wastewater Sludge Management Plan



Sample Projects



New WWTP commissioned in Cork Lower Harbour Other projects include Carlow WWTP, Ballyvaughan WWTP, Ennistymon WWTP, Bandon WWTP, Kenmare WWTP, Mullinavat WWTP, Adare WWTP, Castletroy SS, Ballina SS, Nenagh SS, Passage East SS, Enniscorthy SS

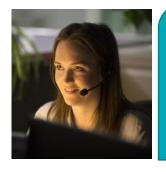
Other Activities in the Southern Region



Supporting Regional and County Development



Supporting Regional Spatial and Economic Strategies (to be finalised in 2018) as well as ongoing reviews of County Development Plans and Local Area Plans



Supporting Customers

Contact centre available 24/7 365 days – 76% first contact resolution Customer Charters – set service levels Vulnerable Customer register and services Non-domestic customers transferred New connections policy New Connections and Developer Services with regional support

Non-Domestic Tariff Framework Review underway by CRU

Supporting Incidents and Outages

Executing National Emergency Plans with the LAs during Storm Ophelia and Storm Emma

Average week – 80 reported outages by LAs, with approx. 40,000 premises affected. Burst mains highest driver of outages.



Example projects in Southern Region

















Thank you for your time

Questions?