

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



Severe Weather Events Response and Crisis Management

John Keane Operational Planning & Emergency Manager

Water Services Training Group 'Delivering Water Services in an ever-changing Environment'





- Set the Scene
- Irish Waters Approach to Incident Management
- Irish Water Incident Management in Action
 - Severe Weather Storms & Snow
 - Severe Weather Drought
- Next Steps





Set the Scene



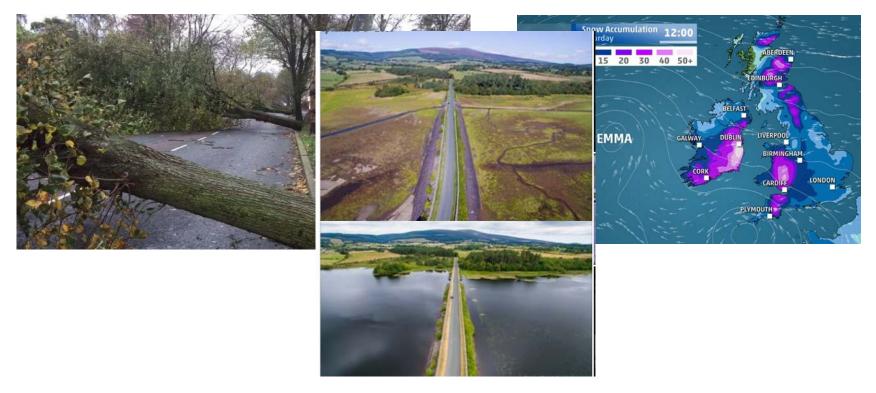
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Set the Scene



Climate Change

.....are weather patterns changing?



It is Clear.....Something is changing





What does this mean for the Water Industry? Its about:

Planning Agility Responsiveness

PREPAREDNESS

Are there Knock On Consequences?





Irish Waters Approach to 'Incident' Management

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Incident Management

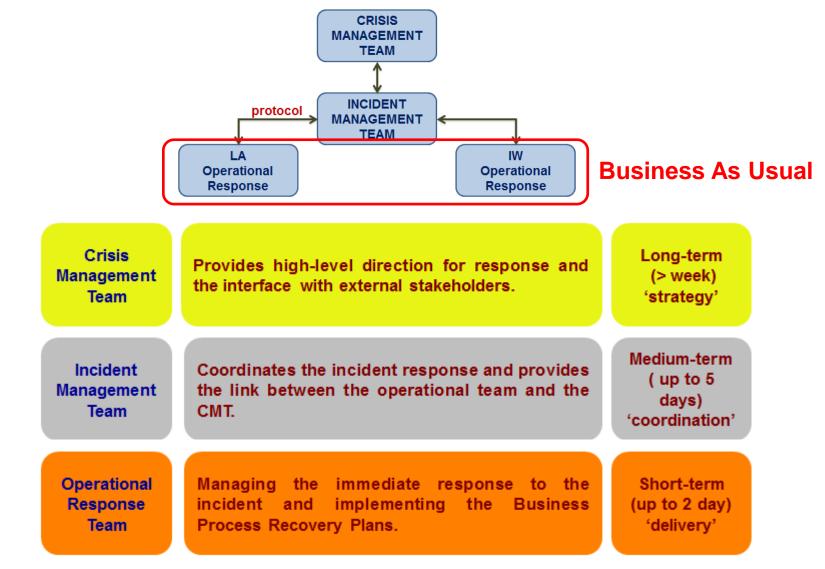
- In place for January'14.
- Governance Process
- Developed in conjunction with a Suite of Procedures.
- First 'tested' in Storm Darwin
- Post Event Review
- Annually Tested
- Major review planned Q4'18.

Manager	Nater Incident ment Framework	Revision: 1.0		oved by: Nell L five Date:23/12	
H8QE-8	DP-024-FRW-01		NCIDENT MA	NAGEMENT F	RAMEWORK
MA		GE	ME		
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Incident Management Response







Post Incident Reviews

• Training & Awareness

Incident Exercises





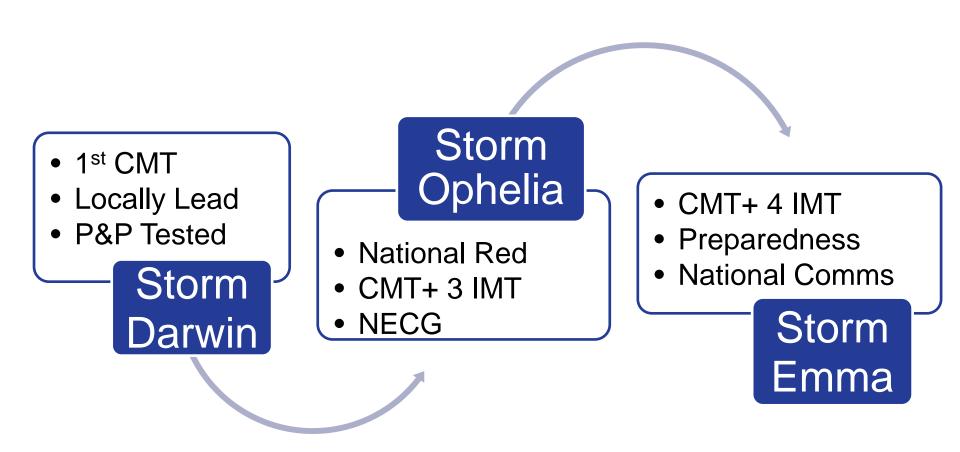
Irish Water Incident Management in Action

'Storms & Snow'

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Storm Events





Storm Preparedness – Lessons Learned



- Mobilise on Advanced Warning (Met Eireann)
- Cross Function Severe Weather Action Plan
- Movement of Staff & Supply Chain to Key Infrastructure
- Alternative Water Supply provision
- Backup Electrical Provision
- Leverage all Communication Channels





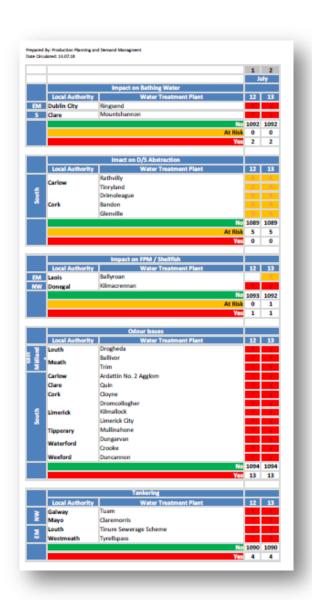
Irish Water Incident Management in Action

'Drought'

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Drought - Overview

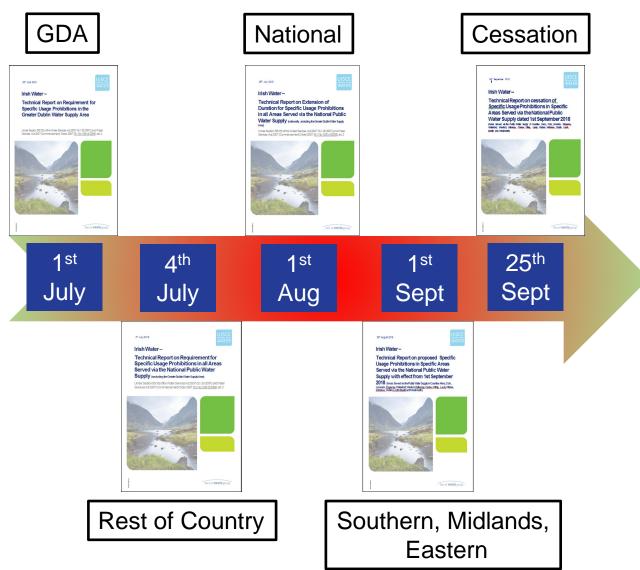
- CMT in place from 3rd July-27th Sept.
- Monitoring all Water and Wastewater supplies daily
- Additional surveying of sources across the country, hydrometric stations, low flow interventions
- Operational Efforts: networks changes, supply and pressure management, tankering water
- Demand Management: Water
 Conservation Order, conservation
 campaign, advice and information





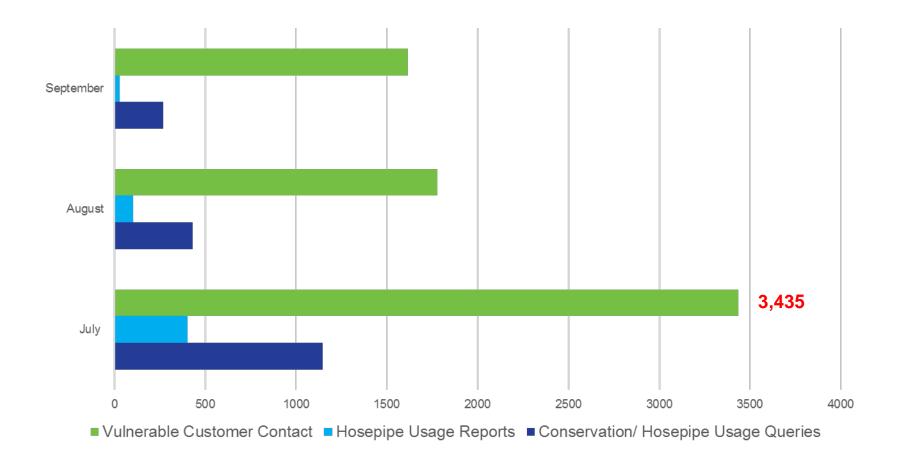
Water Conservation Orders (1st July - 25th Sept)





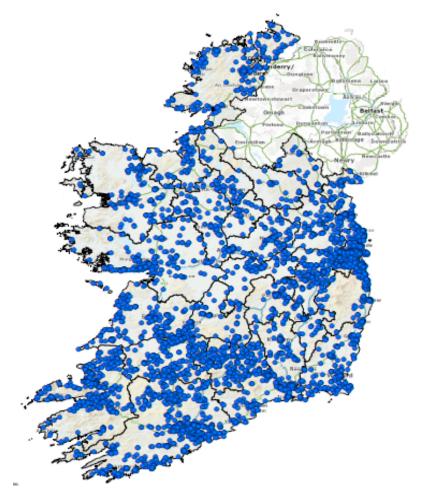
Customer Contact Centre

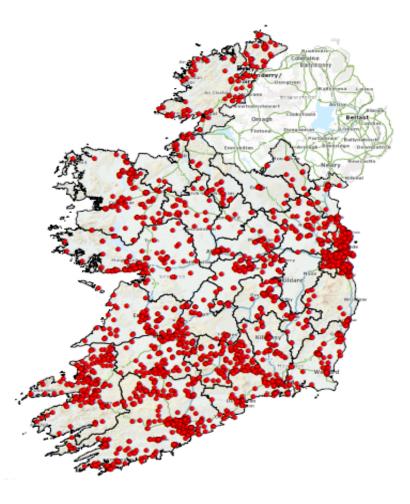




Customer Initiated.....







Leak Investigations

Leak Repairs

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Compliance



Drinking Water

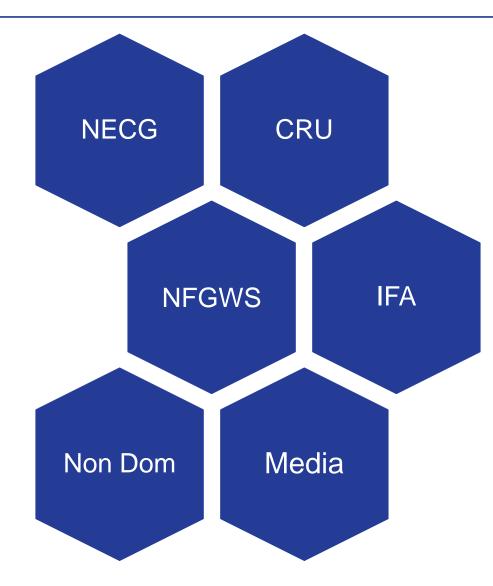
- No BWN issued due to Drought.
- Water Quality Challenges

Waste Water

- Compromised Receiving Waters
- WWTP Tankering

Communications Response











- Incident Management Framework Review
- Contingency Plans for Key Infrastructure
- Decision making Telemetry data
- Complete PIR's because......

Operational Response Learning Improves Overall Business Preparedness



- National Severe Weather Management Process
- ESB Networks 'new' Ways of Working
- MOU NI Water Mutual Aid Agreement
- AWS Tenders
- Supply Chain Readiness
- Critical Sites alternative Electricity Supplies

Next Steps - Drought

- Close out the On-Going
 National Drought Actions
- Start Planning for next year now. – trackers, WoW, etc.
- Create a National Drought Management Action Plan aligned with the Water Resource model.
- Stakeholders Comms approach.

On Going Drought Actions

- Complete Post Incident Review
- On-going Drought Management (Southern Region)
- Incident Management Framework Review [CMT]
- Key Stakeholders Debrief (NECG)
- ESB Engagement Liffey & Lee Catchments
- Pressure Management Oversight (Large Urban Areas)
- Customers Water Conservation Engagement
- Asset Planning:
 - Critical GW Abstraction Assets
 - Critical SW Abstraction Assets
 - Critical Water Resources Conjunctive Planning
 - Critical WWTP Assets
- Improve Telemetry access Nationally







Irrespective of whether Climate Change is having an effect.....

Our National Capability has improved:

Planning Agility Responsiveness

PREPAREDNESS

Addressing the National Consequences



Thank You



Aurora