



Asset (Lifecycle) Management: *Delivering Water Services for the future*

Catherine Kelly & Mary Hussey
Uisce Éireann

WSTG 2023 Conference
12th October 2023
Clayton White's Hotel Wexford



Agenda



1 Why do it

2 What is it

3 In UE

4 In practice

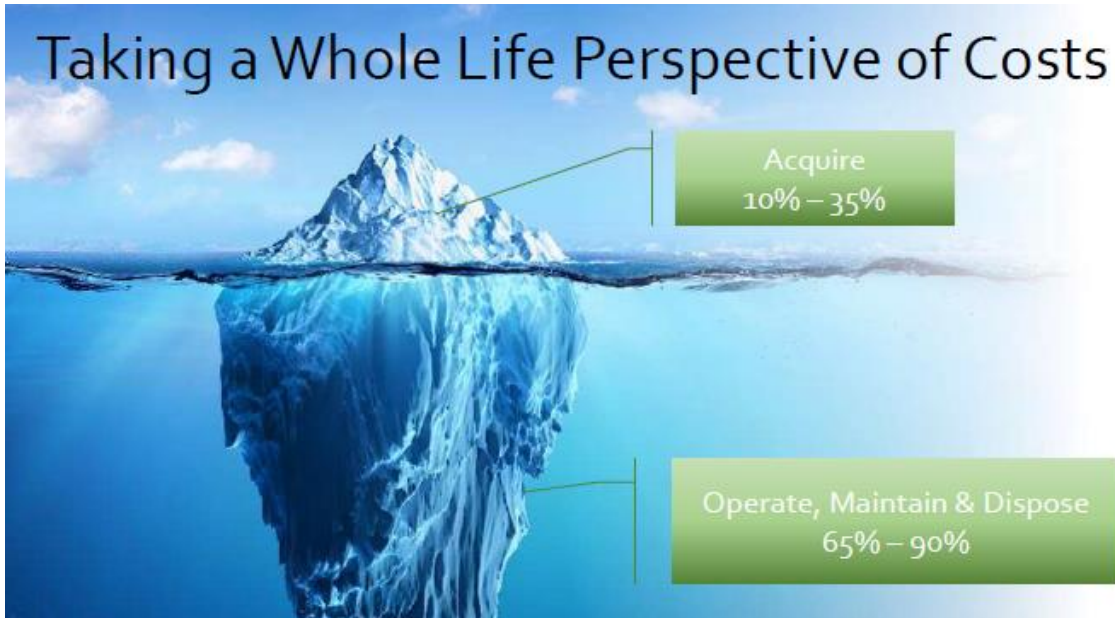
5 The future

6 Your role

Why do Asset Lifecycle Management



Taking a Whole Life Perspective of Costs



'Coordination of activities on assets across their lifecycle to achieve value'

Opportunities v Decisions across the Lifecycle

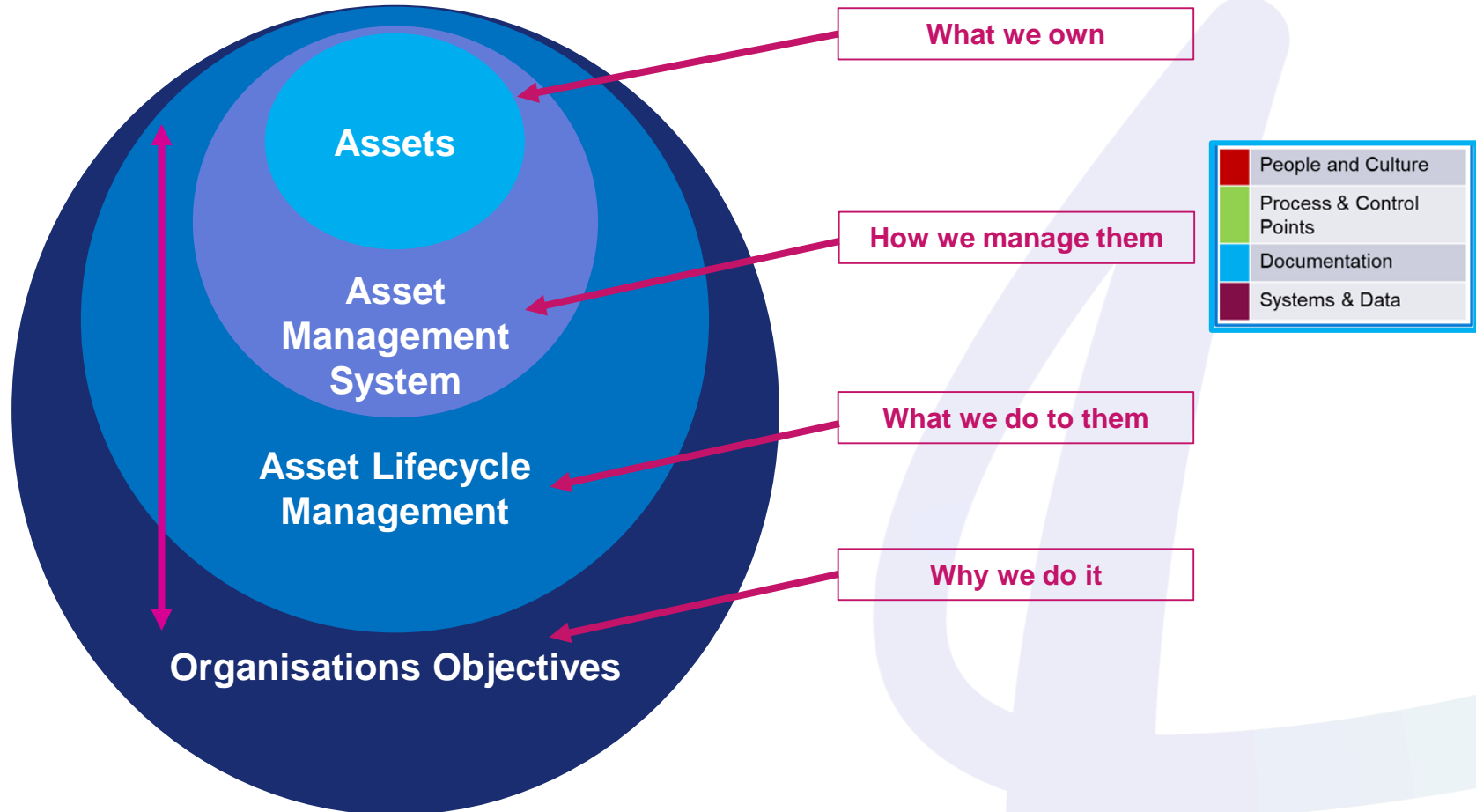


Why do Asset Lifecycle Management



- Inefficient use of resources
- Difficult to prioritise
- Creation of risk
- Line of site

Why do Asset Lifecycle Management



ISO 55000 Model

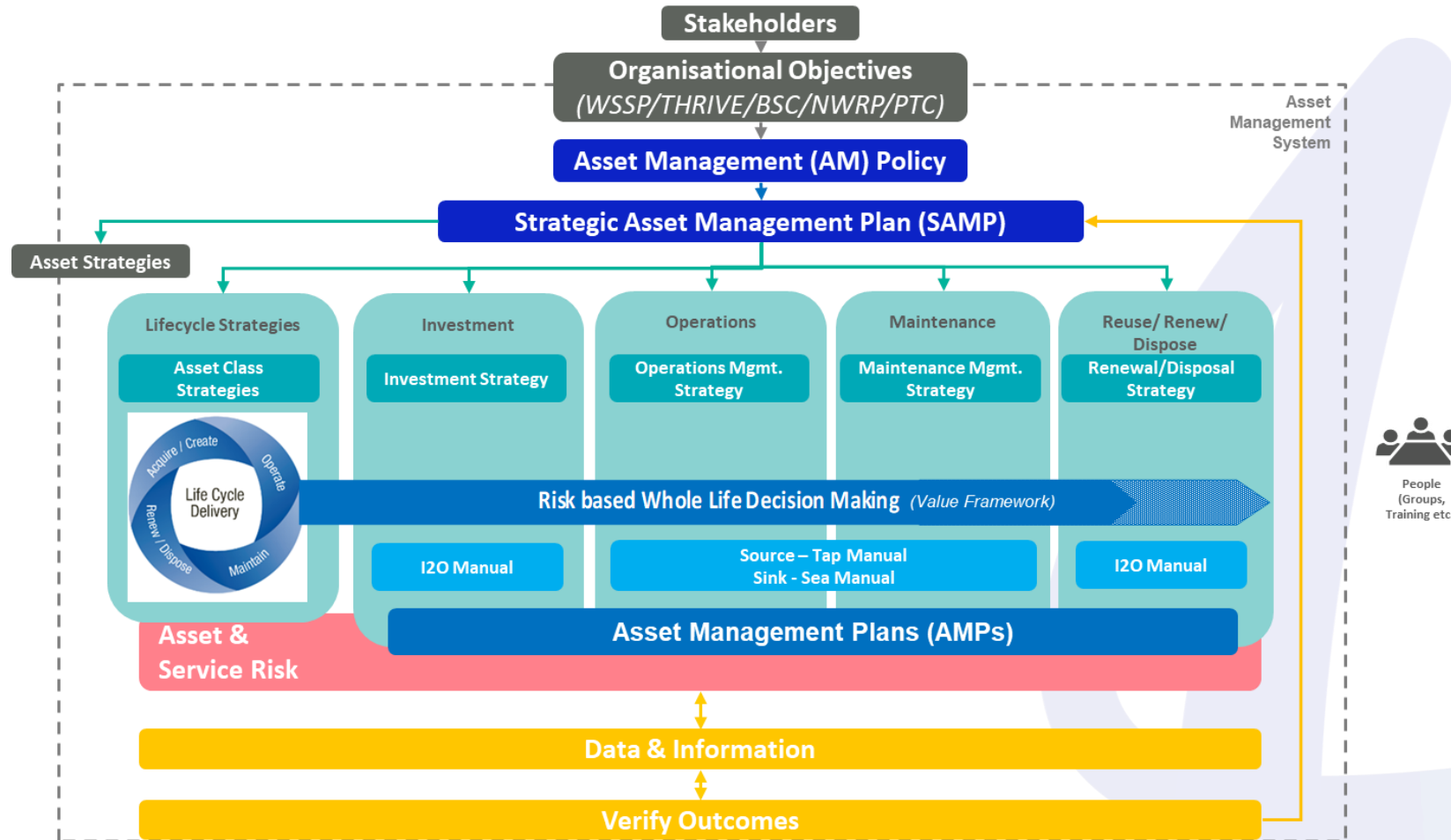
What is Asset Lifecycle Management



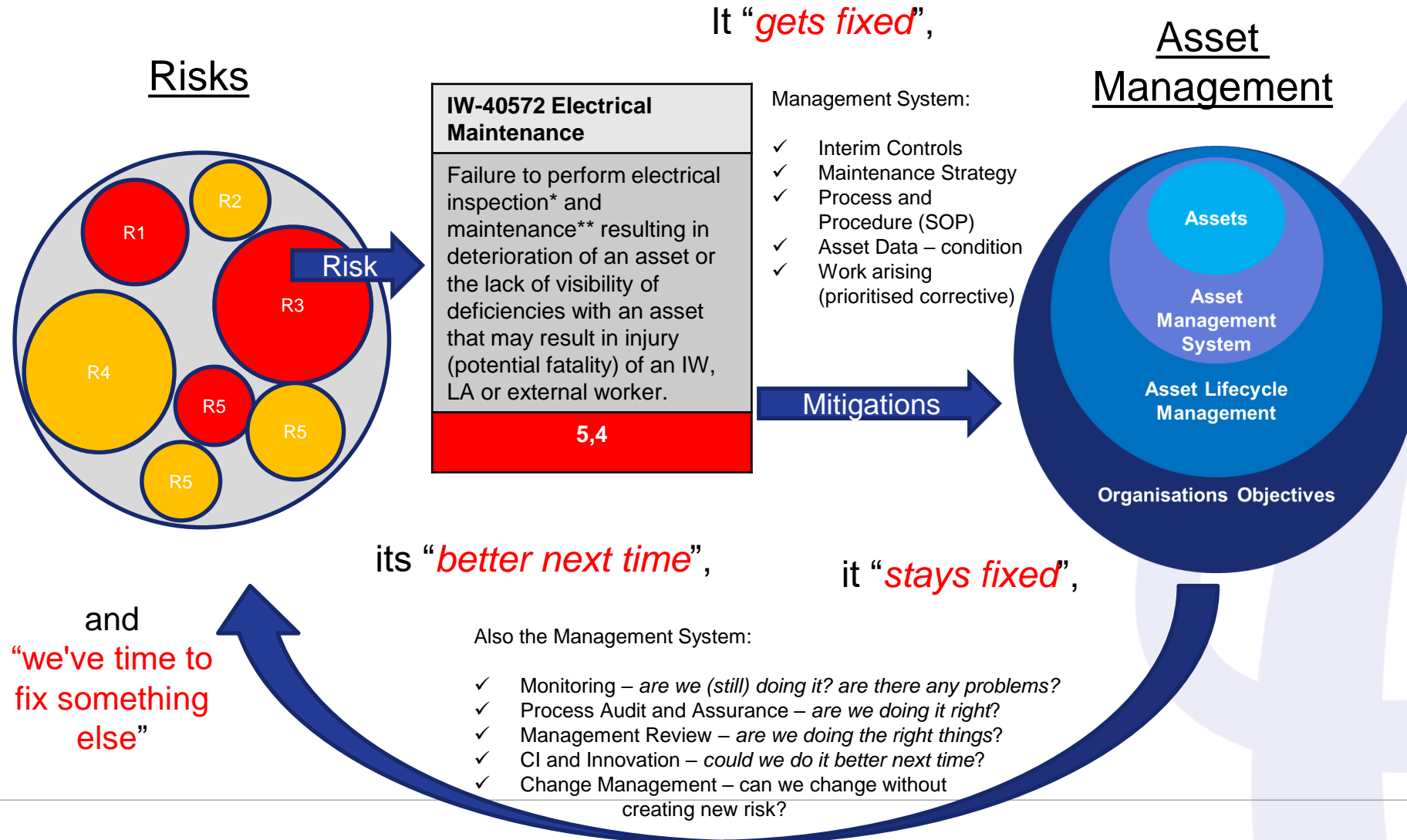
- People and Culture
- Process & Control Points
- Documentation
- Systems & Data



Asset Lifecycle Management in UE



Asset Lifecycle Management in practice



Delivering water service fit for the future: What we are doing



- Efficient use of resources
- Better data & prioritisation
- Decrease in risk & increase in compliance
- Line of site

Your role in Asset Lifecycle Management



- **Learn** more about Asset Lifecycle Management
- **Engage** with us – challenge & support
- Inform us of **change** projects
- **Participate** and get involved in workshops
- **Be patient** – Asset Management is a never-ending journey
 - *We can always improve our processes, documents & systems to better manage our assets*



Summary



- Why we do Asset Lifecycle Management
 - To **coordinate** activities on assets across their **lifecycle** to achieve **value**
 - We need an **Asset Management System** (processes, groups, systems, documents & data) to do this
- We have designed a **framework** for how we will do this in UE
- Key to this is **people & capabilities**
- We aim to have a fully-functioning Asset Management System & achieve ISO 55000 compliance with the **new roadmap**
- This will help us use **resources efficiently, prioritise and decrease risk**
- We all have a role in Asset Management, an Asset Management System **built with you,** will help us to do it better & ensure we manage our assets so they are **fit for the future**



Thank you.

For further information or to get in contact please email catkelly@water.ie or access the IAM anatomy of Asset Management at <https://theiam.org/knowledge-library/asset-management-an-anatomy>

Q&A will be through Slido via QR Code on the back of your lanyard or go to [slido.com](https://www.slido.com) and enter the number #2557172



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Delivering the Capital Investment Plan

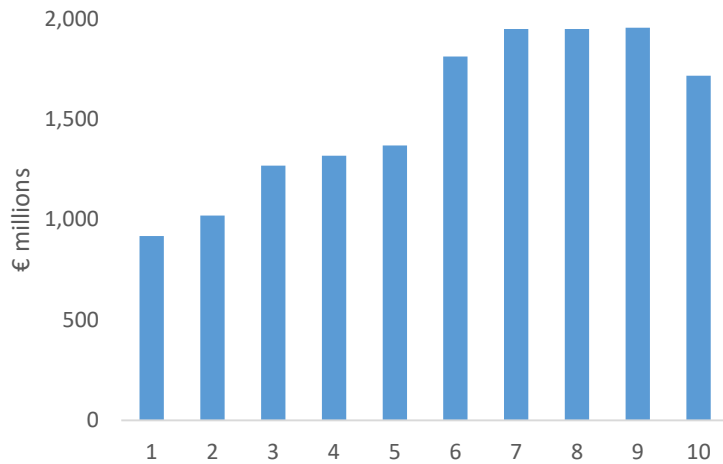
Caroline O'Reilly & Brian Quinn
Uisce Éireann

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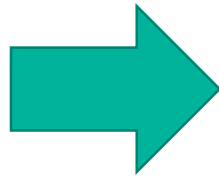


Capital Investment Plan Development - Revenue Control 2025 -2029

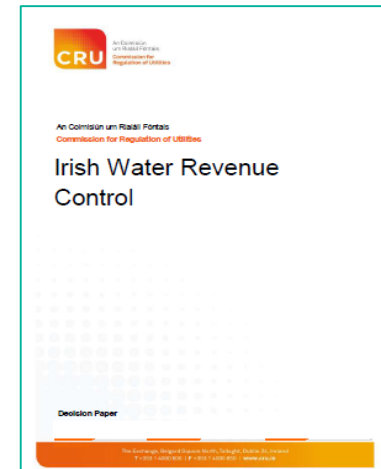
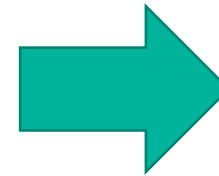
Our Funding and Revenue Relationship



National Development Plan (NDP)
Investment in UÉ to 2030
Funding envelope of c. €15bn



Strategic Funding Plan 2025-2029
€TBC bn



Revenue Control Plan
Outlines our CRU approved funding

UÉ's strategic objectives are funded through the Strategic Funding Plan and approved by the CRU

Aligning Investment to Policy and Strategies

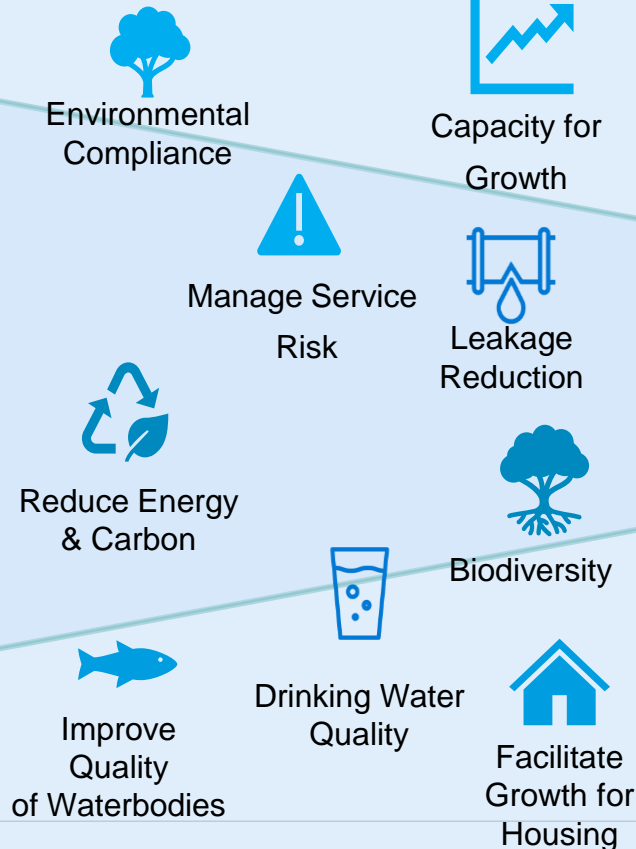
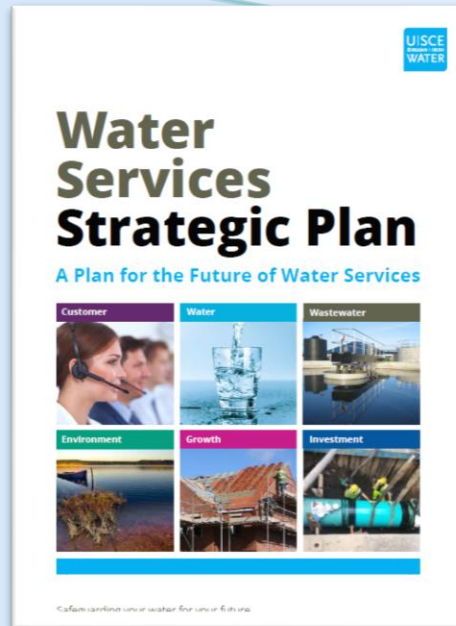
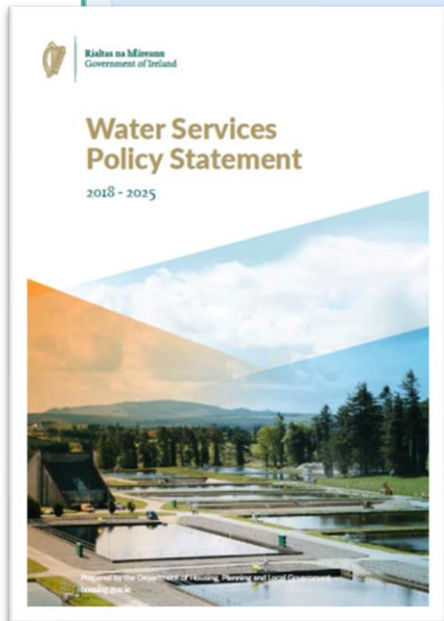
Strategic Objectives and Aims

Asset & Service Needs

Constraints

Objective:

Best mix of investments to meet objectives within constraints



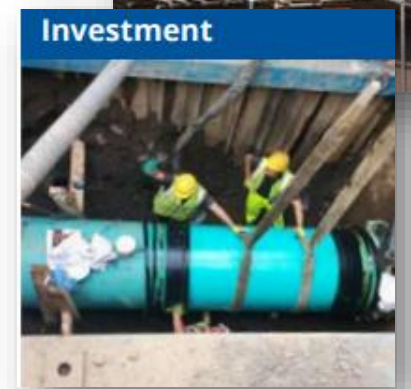
Strategies and Plans that Influence Our Investment



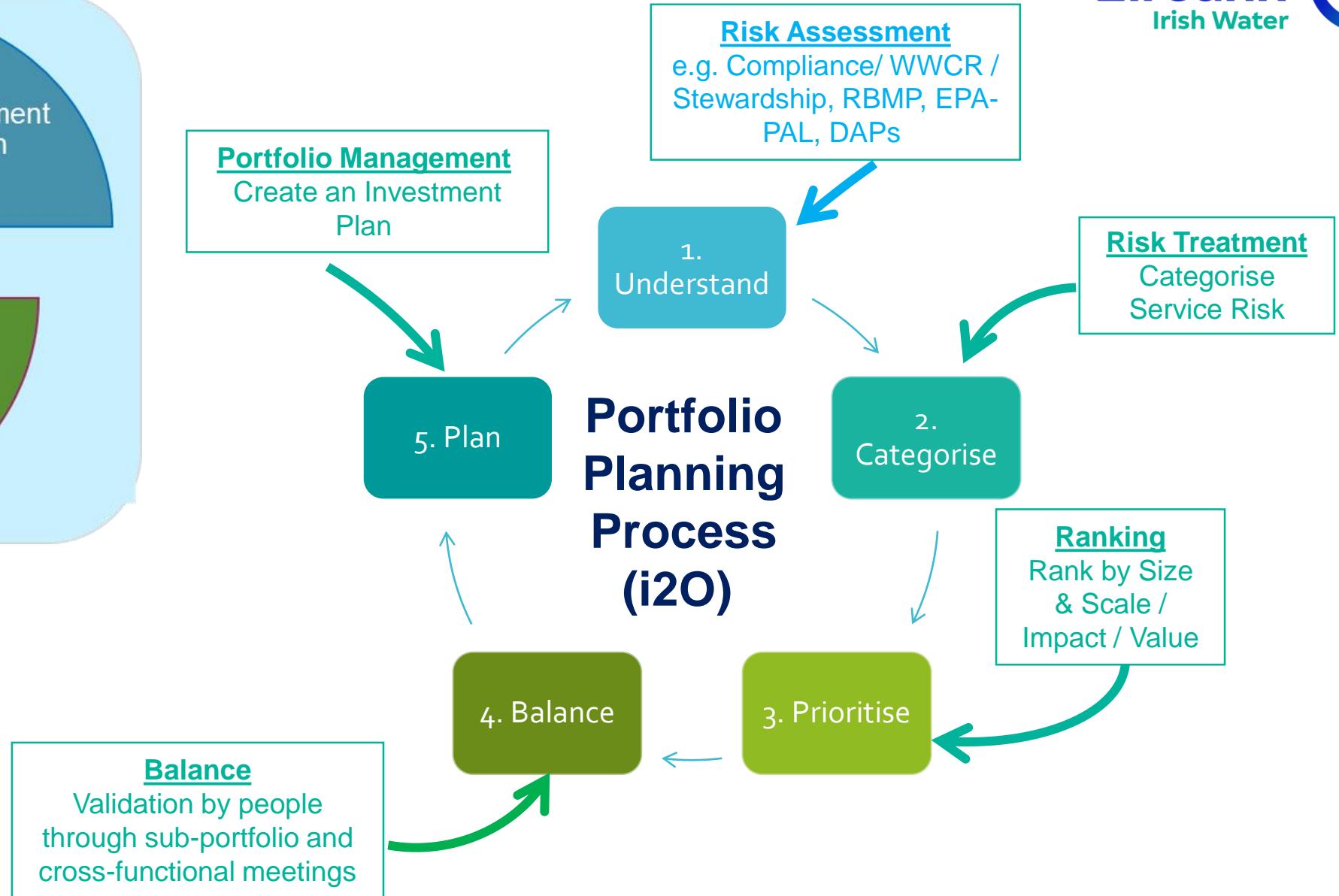
We listen to our stakeholders to understand their priorities



RAL PAL Sustainability Climate Change Energy Efficiency Emerging Needs
BWN Lead UTAS Rural Regional MUHDS
ECJ THM Growth Quality Asset Risk Security of Supply
Leakage LIHAF Asset Failure Service Risk Operational Needs
ECJ Cases Connections Sludge Drought
RBMP WSP Supply Demand Balance UET Resilience
GDD Fleet IT Facilities



Prioritisation in Action



Vision: A sustainable Ireland where water is respected and protected, for the planet and all the lives it supports.



We will continue to invest in Water & Wastewater infrastructure

2014 to 2019 - **€3.6bn**

2020 to 2024 - **€5.5bn**

2025 to 2029 - **€8-10bn***

** Subject to Strategic Funding Plan and Commission for Regulation of Utilities (CRU) approval*

- **What are we Investing in?**
- **How are we Delivering it?**
- **What are the Challenges & Opportunities?**

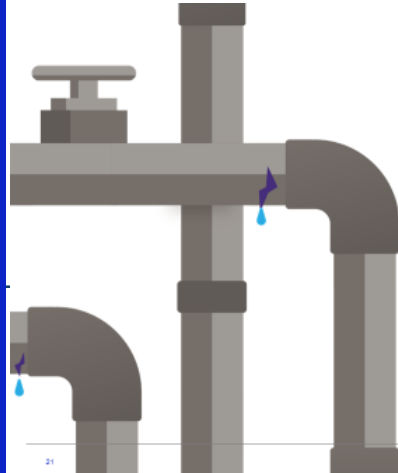


What are we investing in?

- Conservation
- Future Proofing
- Quality



€5.26 billion allocated to upgrade our asset base as part of the Business Financial Plan 2020–2024



5,876 lead services replaced in 2021 as part of our lead pipe replacement programme

33.7% leakage rate in the Greater Dublin Area for Q1 2022, which out performed the national average.



124 new or upgraded wastewater treatment plants since 2014



130,034 People removed from the EPA Remedial Action List (RAL) in 2022



66 new or upgraded water treatment plants since 2014



Uisce Éireann is on track to **eliminate** the majority of **raw sewage discharges** by the **end of 2025**



Leakage savings of **166 mega litres per day** achieved in 2021

This is equivalent to the daily supply to 488,000 homes



Supporting **Housing for All** – the Government's housing plan to 2030.

It is estimated that Ireland will need an average of 33,000 new homes to be provided each year from 2021 to 2030.



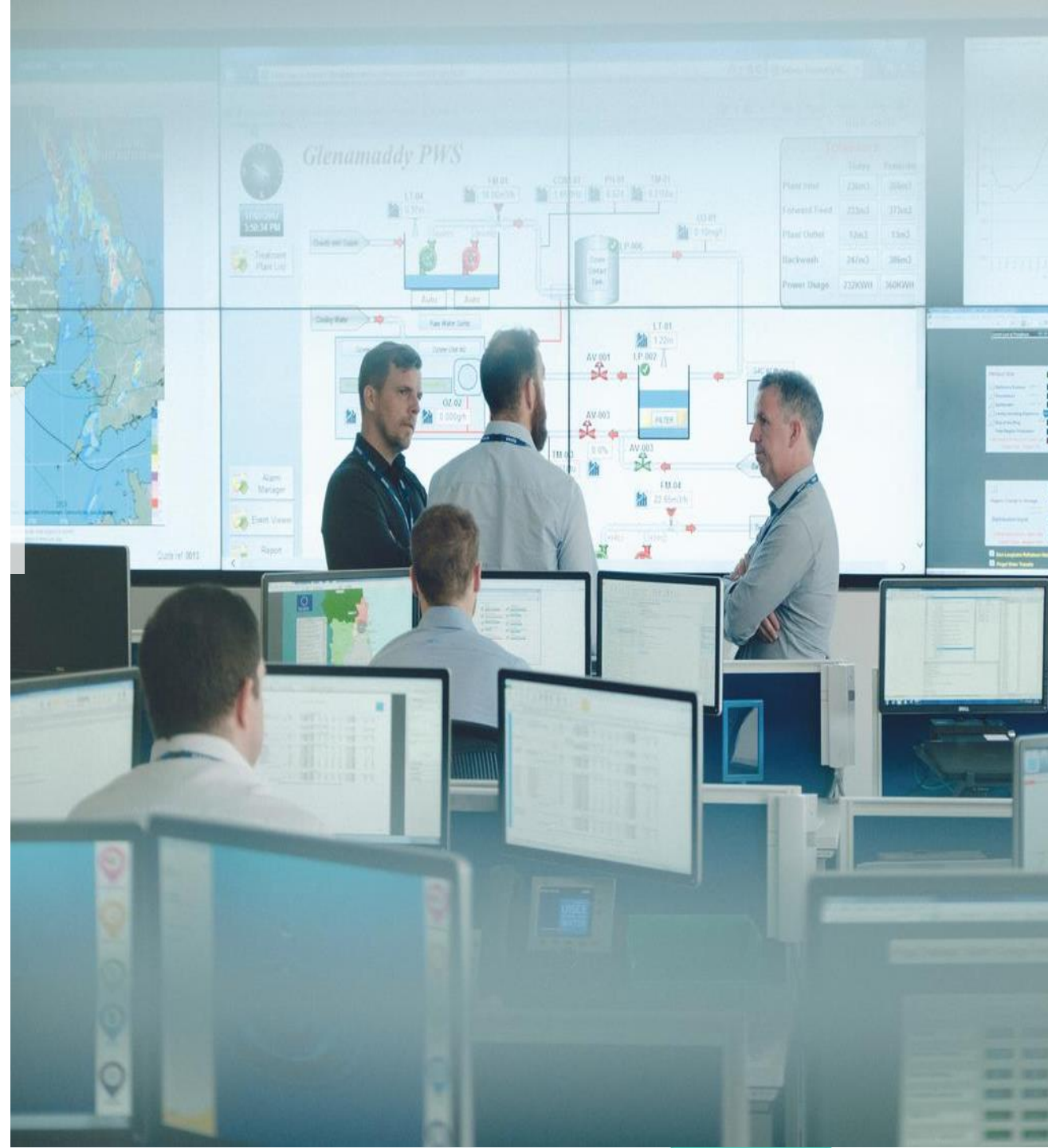






How are we Delivering the Investment?

- People
- Partnering
- Processes



People

Safety First – no job that cannot be done safely



HEALTH & WELLBEING



APR'22 TOOLBOX TALK - 'Mental Health and Wellbeing'



Collaborative Safety Forum




130+ PARTICIPANTS

ACROSS 8 CONSTRUCTION SITES

15 UE RESIDENT ENGINEERS

TOGETHER, ONSITE & ON ZOOM

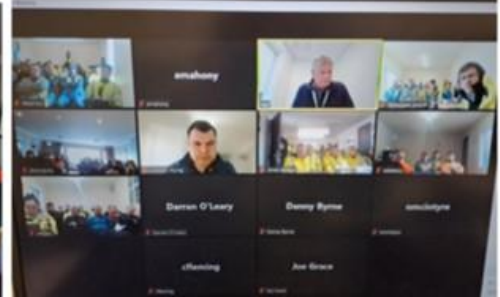
ECI FRAMEWORK SAFETY STAND-DOWN MEETING
Friday, March 31st

Agenda

- 10:00am: Introduction
- 10:15am: Safety Team Talk
- 10:30am: Hazards at Work
- 10:45am: Site walk-through
- 11:00am: Break

Make safety a priority & join in!

Location: Donnell Road Meeting Room, Ballymore Park, Dublin
Time: 10:00am - 11:00am
Available for all employees



A Day in the Life – Project Manager Example

Overseeing **22 Projects** with Cumulative Value of **€200m+**:

- 4 at Handover
- 9 at Design
- 6 at Construction
- 3 at Closure

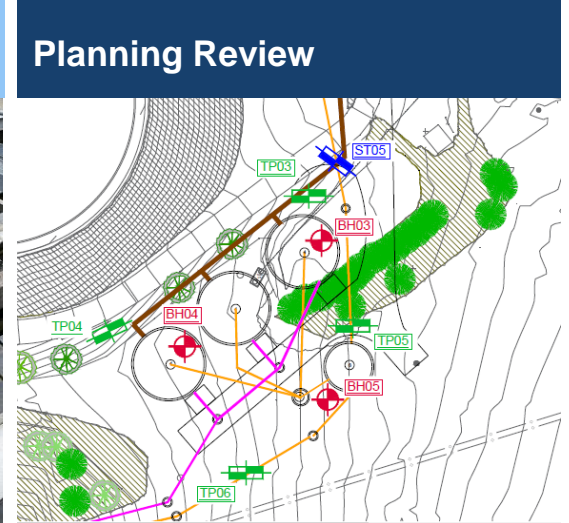
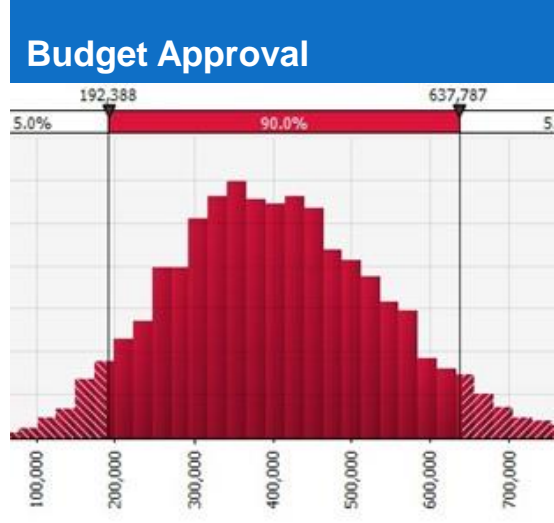
Role:

- Point of Escalation for Issues/Risks
- Manage commercial and forecasting/scheduling processes
- Lead strategic engagement with Contractor, Ops and AP



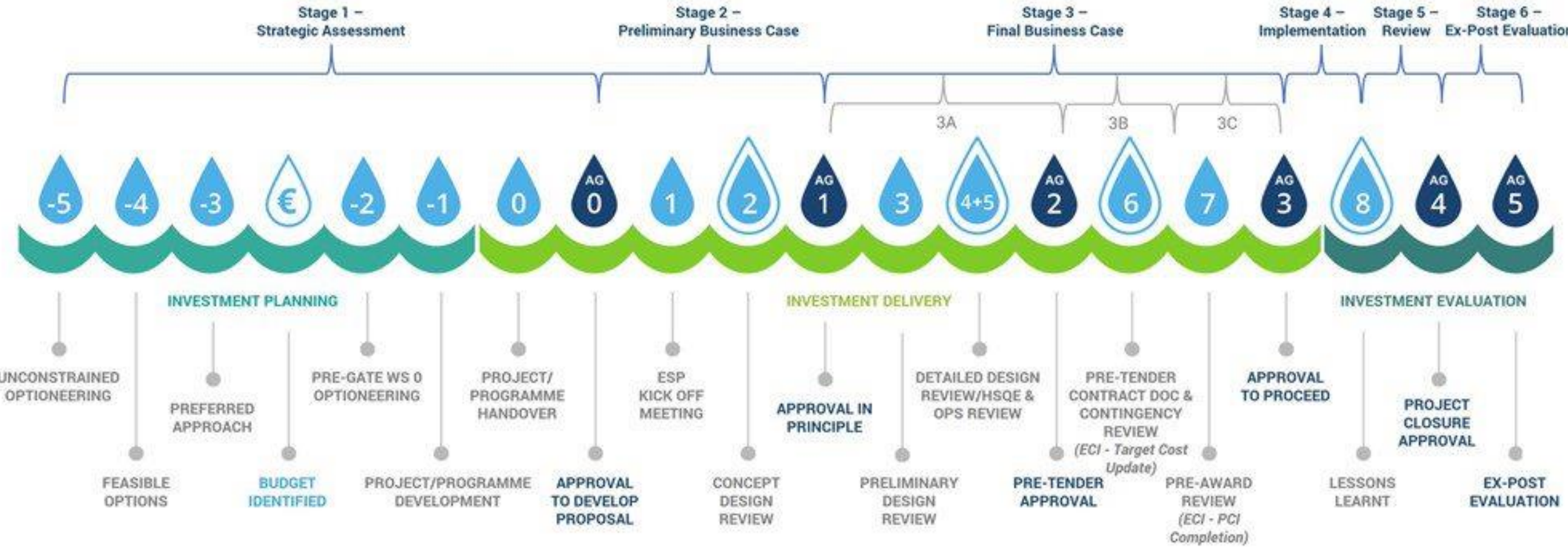
A detailed resource plan table showing various roles and their assignments across different project phases.

Phase	Phase	Phase
Staff Budget	Cost Planning	New Hire
Document Controller	Technical Area Specialist	Engineering / Scaffolding
Water	Water / Wt Water	Mechanical Eng.
Water / Wt Water	Water / Wt Water	Electrical Eng.
Water / Wt Water	Water / Wt Water	Structural Eng.
Water / Wt Water	Water / Wt Water	Quantity Surveying
Water / Wt Water	Water / Wt Water	Health & Safety
Water / Wt Water	Water / Wt Water	Construction
Water / Wt Water	Water / Wt Water	Operations
Water / Wt Water	Water / Wt Water	Commissioning
Water / Wt Water	Water / Wt Water	Handover
Water / Wt Water	Water / Wt Water	Closure



Processes

Invest to Outcome (i2O) Project Lifecycle

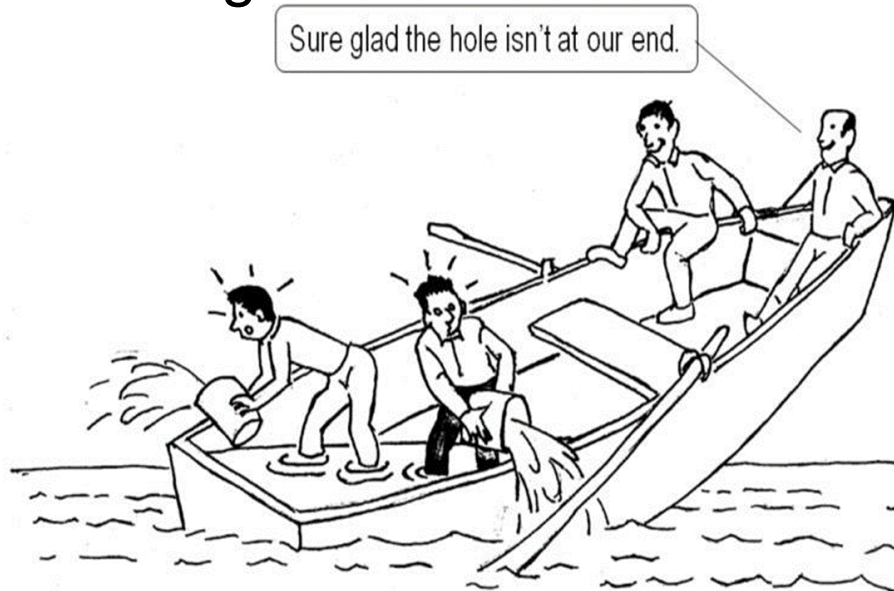


Workshops
 Governance step – ‘Approval Gate’

Process aligns with the Public Spending Code

Partnering

- Right Work, Right Contractor
- Regional Programmes
- Risk Rebalancing

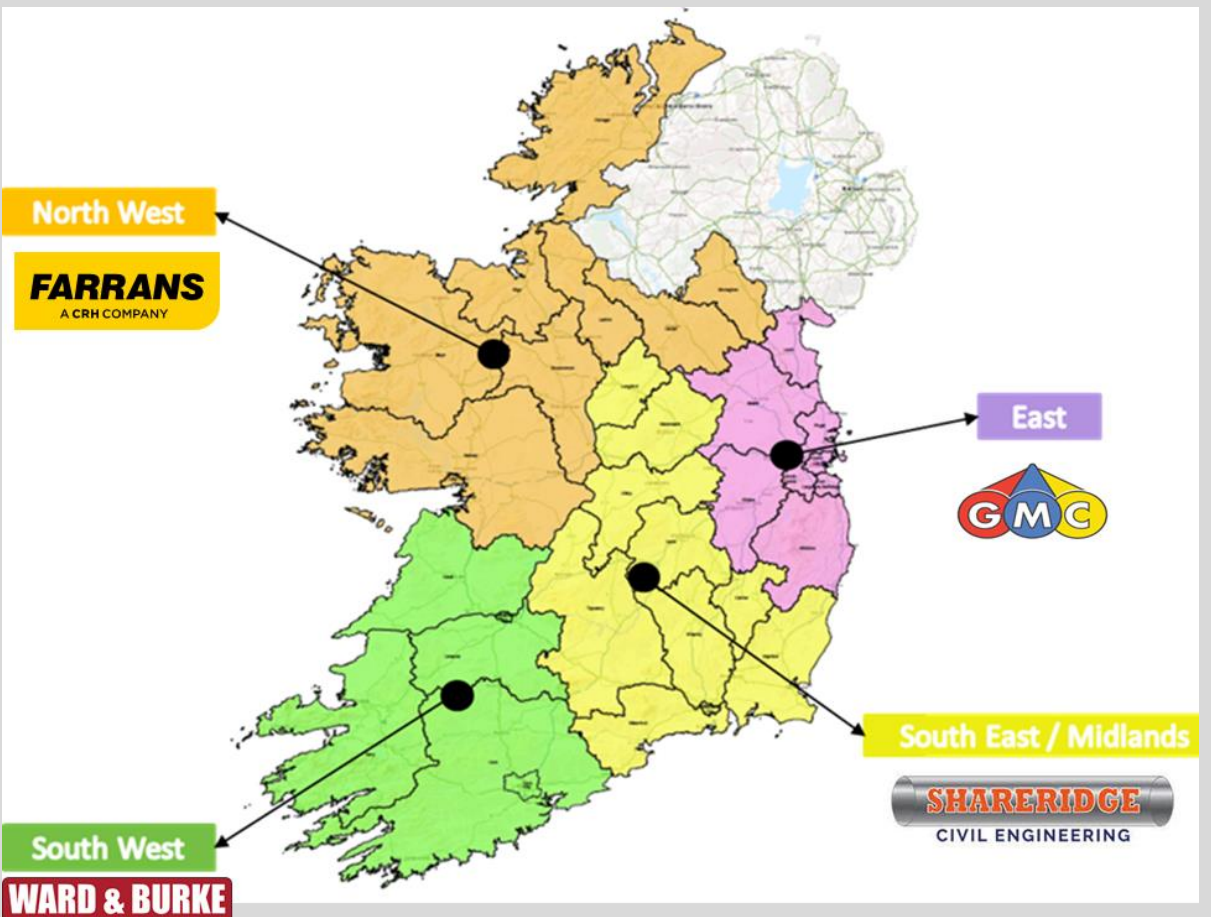
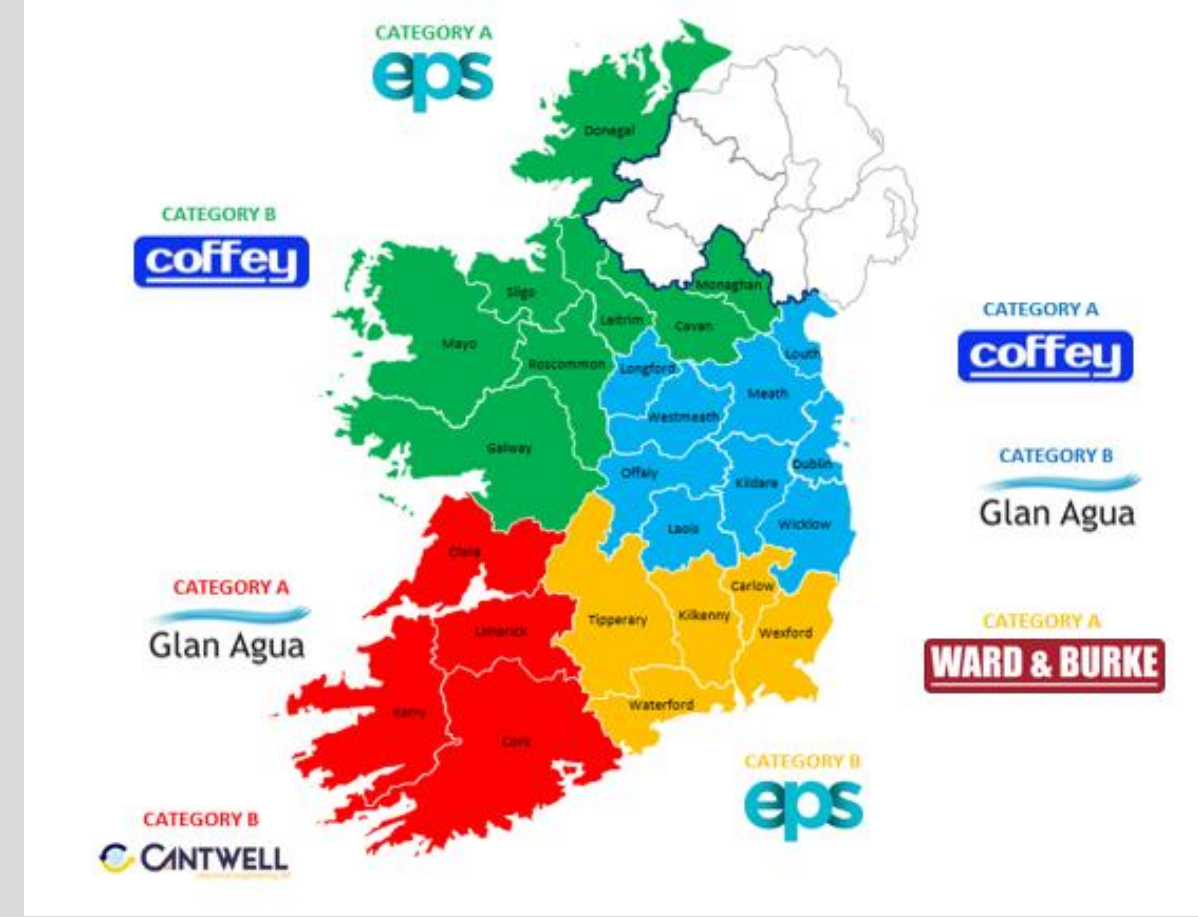


Partnering – Collaborative Programme Contracts



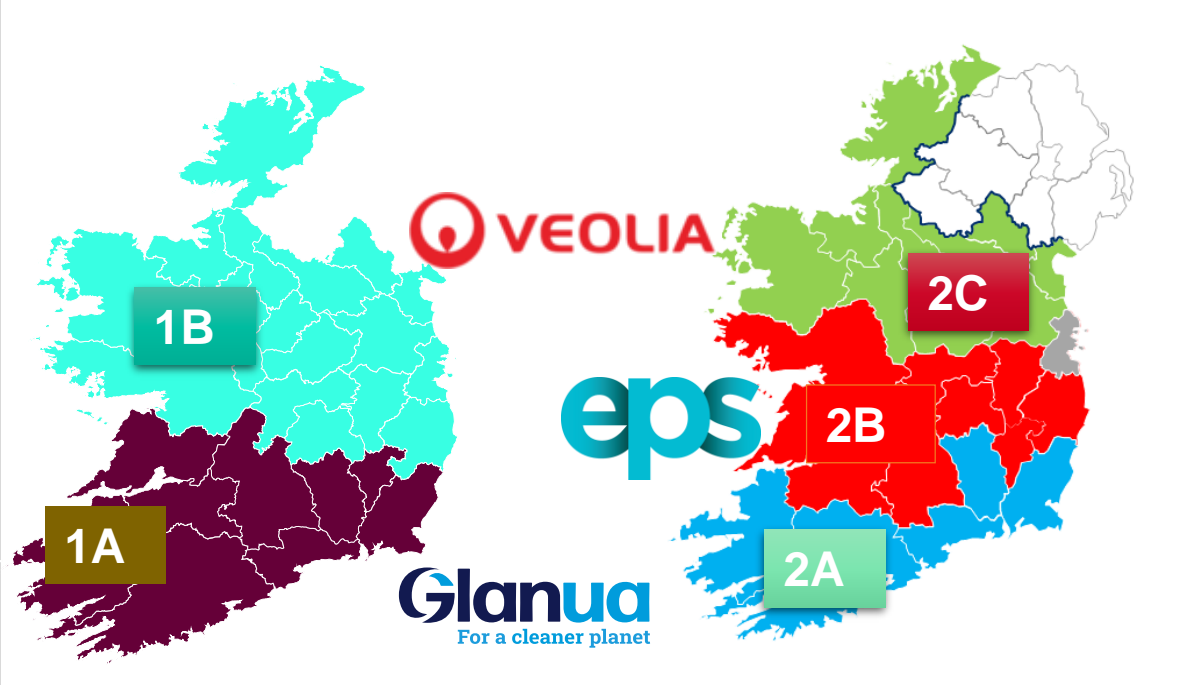
17/170-093 Water Treatment Programme

21-050 Water and Wastewater Network Services & Works

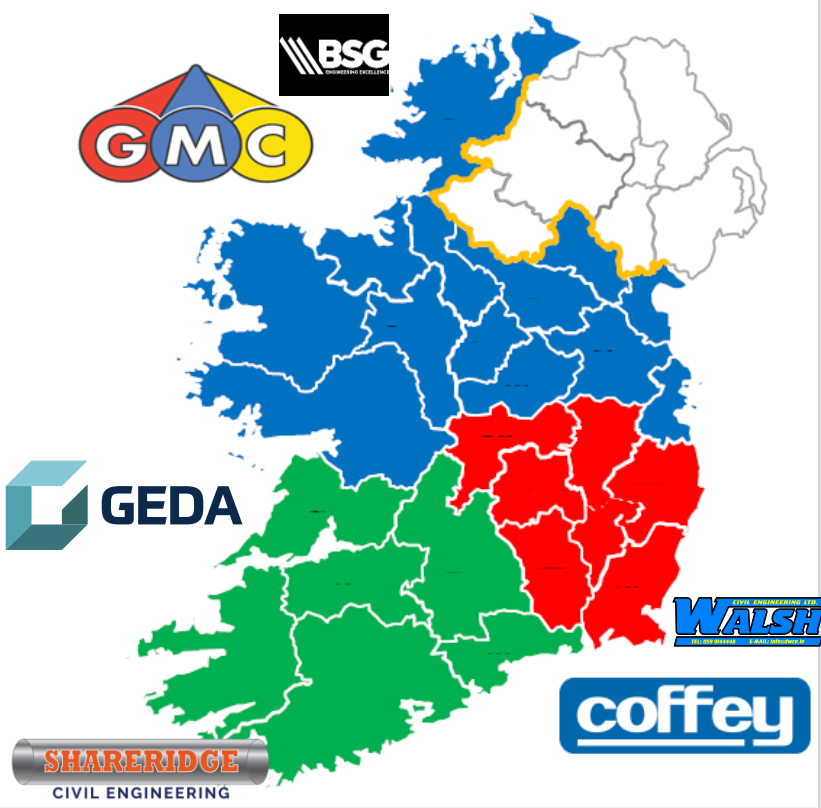


Partnering – Collaborative Programme Contracts

16/030 0020 & 003 ECI Programmes



17/204-001 Growth & Development Programme



Summary – Challenges & Opportunities



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Panel Discussion

12.25pm-12.45pm

Developing Our People & Capacity

- Jim Palmer EPS Water jpalmer@epswater.com
- Ger Gibney Ryan Hanley gibneyg@ryanhanley.ie
- John Fogarty Uisce Éireann jfogarty@water.ie
- Jackie O'Regan Uisce Éireann Jackie.OREgan@water.ie



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Lunch Break

We will resume at 14:15pm

Session 3- Collaboration & New Ways of Doing Things

Chair Tom Enright, CE of Wexford County Council

1st Integrated Drainage Planning

2nd Catalysing a culture of innovation in the Water Sector

3rd Collaboration around supporting growth

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