Water Supply Project (WSP) Eastern and Midlands Region



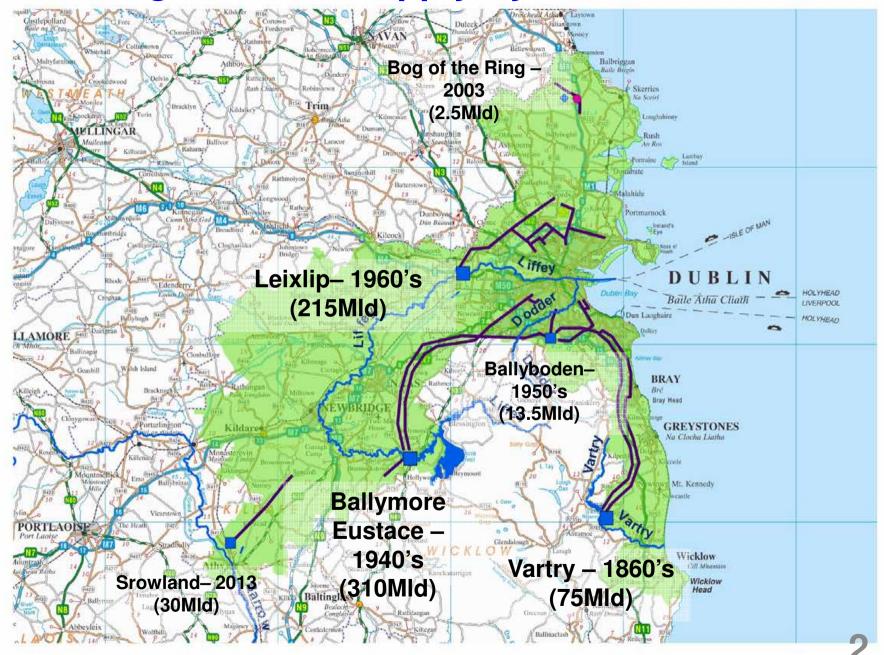
Briefing:
Joint Committee on
Housing, Planning,
Community and Local
Government



Date: 15 February 2017



Dublin Region Water Supply System



Planning for the Future



- Short to Medium Term
 - Existing Liffey, Vartry & Srowland Schemes being maximised
 - Ambitious leakage reduction targets being addressed
 - □ Resilience Risk Limited System Redundancy
- Medium to Long Term
 - New Water Supply Needed to meet domestic & commercial growth (in addition to leakage savings)
 - □ The Preferred Scheme (Shannon) can be delivered by 2024 to provide secure, resilient, sustainable supplies to Eastern & Midlands Region to support social & economic growth

Benefits of a New Water Supply / Risks without



With a new supply

- Secure and sustainable water supply to over 40% of the Country's population
- Providing a sustainable and resilient water supply system.
- Stimulate and facilitate economic investment and sustainable housing and business development
- Headroom and Peak Capacity brought up to meet international best practice

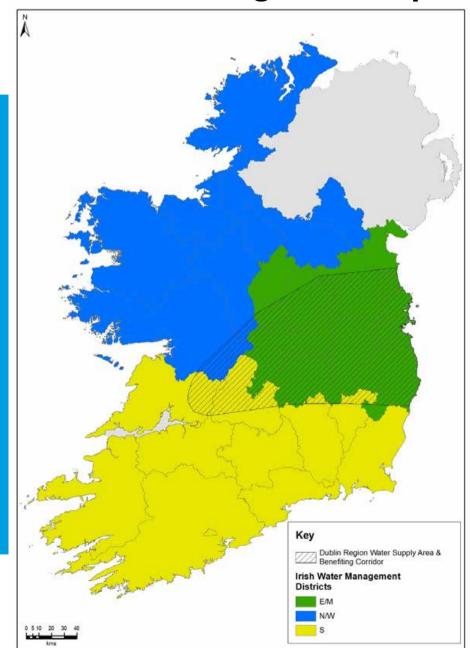
Without a new supply

- Risk of outages increases, one day lost- typically costs the Irish economy €78m / day
- Severe negative impacts to employment as water supply cannot meet the needs of indigenous and overseas businesses (FDI)
- Limiting development generally

The Preferred Scheme has the greatest benefit to the widest section of the Region's population & the least environmental and social impact of all 10 options examined in detail.

Irish Water Regions / Population Projections



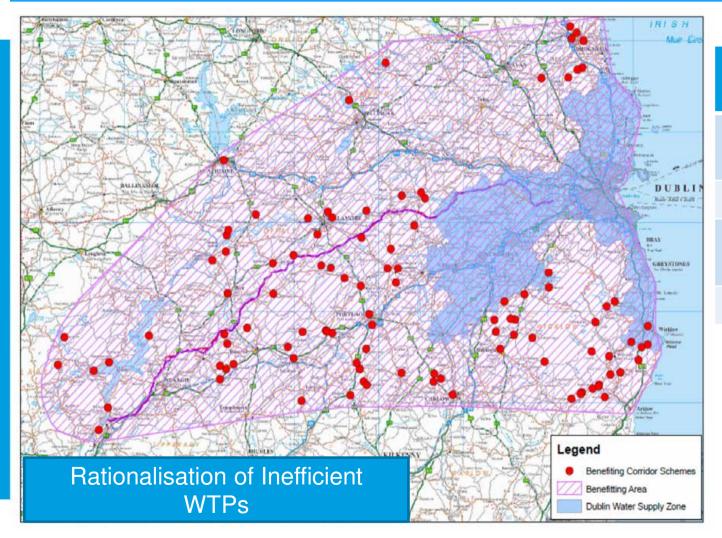


Area No	Description	2011 Census*	2050 Most Likely
1	Dublin Region (Dublin City & County + 90% Kildare + 60% Wicklow + 10% Meath)	1,516,133	2,154,252
2	Midlands Benefiting Corridor	533,984	692,296
3	Rest of the State	2,538,135	2,920,852
	Total State Population	4,588,252	5,767,400

*2016 Census (+100,000)

Demand Projections - Dublin Region Water Supply Area & Benefiting Corridor



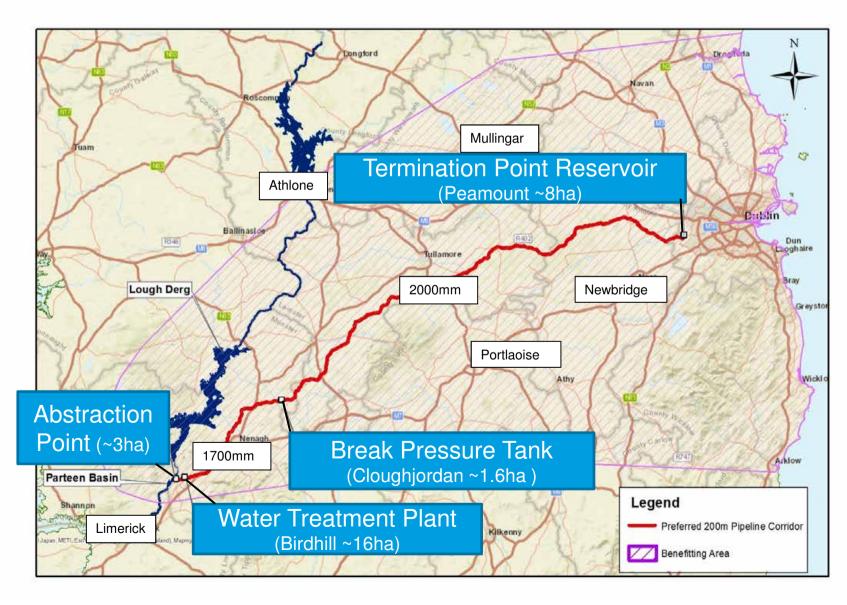


Water Requirement			
Dublin Region	242Mld		
Midlands	72Mld		
Process Water	16Mld		
Total	330Mld		

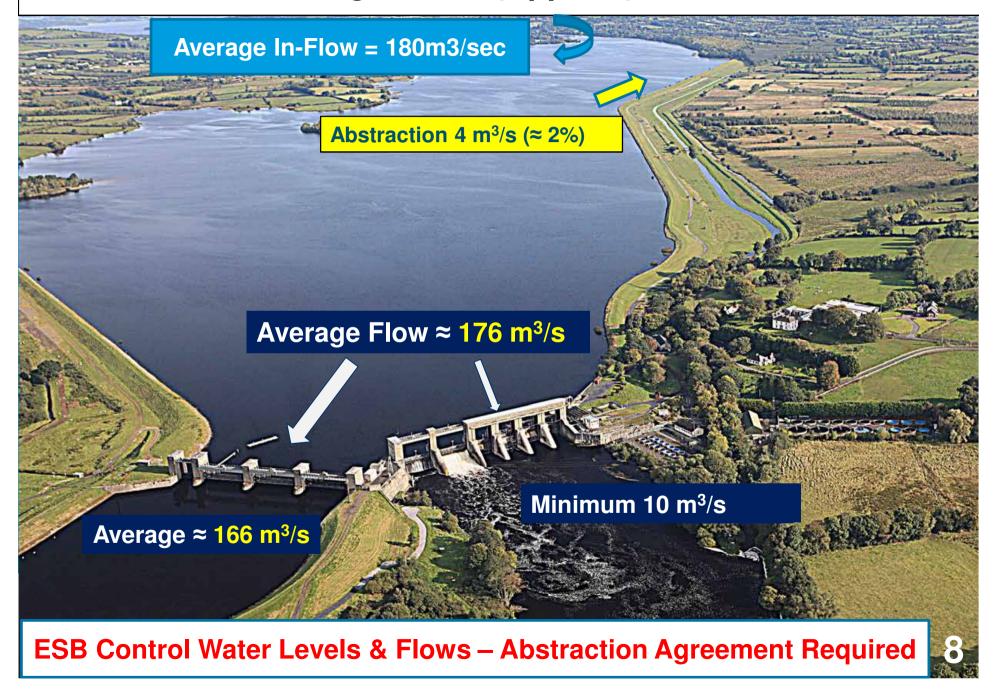
WSP Infrastructure Components



(Pipeline 170km)



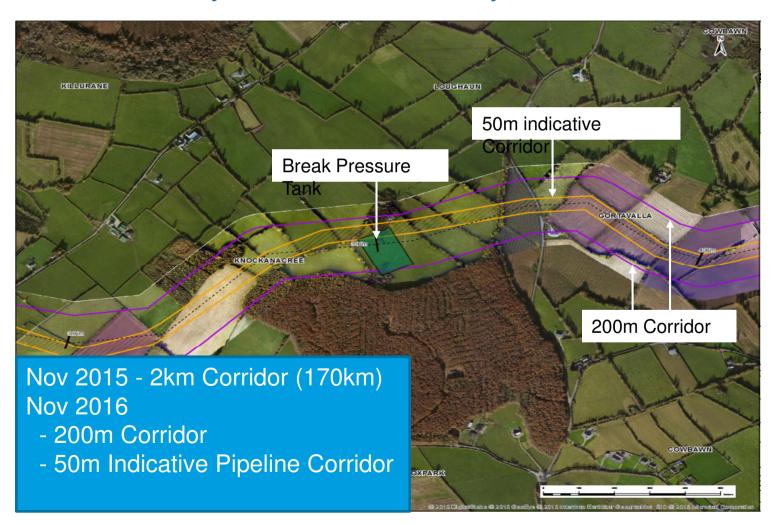
Parteen Weir – Average Flows (Approx.) Abstraction in Place



200m Corridor/ 50m Indicative Pipeline Corridor



- **Modified Natural Gas Pipeline Approach for Water (2400km / 5500 Landowners)**
- **Wayleave Package Construction Requirements + Compensation Details**
- 50m Construction Wayleave / 20m Permanent Wayleave



Pipeline Construction







Photo courtesy of United Utilities (Liverpool West-East Link Main 2014)

Reinstatement (River Barrow Crossing, Co. Wexford)





Photo courtesy of Gas Networks Ireland (gas to Great Island Power Station)

Planning Programme & Overall Programme



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☐ Four Planned Non-Statutory Public Consultations:
    □1<sup>st</sup> - Need (March 2015)
    □2<sup>nd</sup> – Options & Assessment Methodology (June 2015)
    □3rd – Emerging Preferred Option / 2km Pipeline Corridor(Nov 2015)
    □4<sup>th</sup> - Preferred Scheme + EIS Scoping (8<sup>th</sup> Nov 2016 – 14<sup>th</sup> Feb 2017)
□ Complete Planning Application (EIS / Wayleaves etc.) Q4, 2017
■Submit Planning Application with EIS to An Bord Pleanála – Q4, 2017 /
                                                                        Q1, 2018
□Oral Hearing / Planning Decision etc. 2018 – 2019
□ Detailed Design & Procurement 2018 – 2020
□Construction & Commissioning 2021 – 2024
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Irish Water Planning for the Future



■ National Water Resources being prepared ☐ Eastern & Midlands Region prioritised (URGENT) ☐ Existing Liffey / Vartry / Barrow Schemes maximised ☐ Ambitious Leakage Reduction Targets underway ☐ Storage & Connectivity- Leixlip, Saggart, Stillorgan ☐ Resilience Risk – Limited System Redundancy ☐ WSP can be delivered by **2024** ☐ Secure, Resilient, Sustainable Supply to the Region (40% of Population) Support Long-term Social & Economic Growth

Funding Requirement (Capex): €850 – €950m (2021 -2024)



Questions

Further information also available on the project website www.watersupplyproject.ie