Last Reviewed:	20th January 2021
Last Reviewed by:	Rich Kershaw

Innovation Roadmap
Waste Water Networks

YorkshireWater

	Process Improvement	Network Visibility	Sewage Treatment
	Sponsor: Technical Support Mgr	Sponsor: Escapes Strategy Mgr	Sponsor: WW Asset Planning Mgr

Sponsor: Regional Operations Mgr (Pumping) — Pumping Stations and Rising Mains

- Keyhole excavation and repair
- Lateral CCTV camera
- Siemens Mindsphere CSO Analytics trial
- SewerBatt and Quick-view Camera trial
- Intrepid Minds small sewer monitoring
- Fixed Acoustic monitoring
- RFID NFC Asset Tagging
- Satellites and Aerial Surveys for asset risk detection and modelling
- Waste Water Quality Monitor trial
- Rising Main Inspection, Cleaning and Rehab. Gel Pigging, Ice Pigging, Sahara, Pipescan +, IKT Liner research

Smart Wastewater Networks / Systemic Approach to Wastewater

1. Ilkley: Demonstrate the ability of 'Smart' to enable a Systemic Approach to Wastewater. Supporting the Bathing Water challenge.

Monitoring, data, analytics, network visibility, hydraulic control, WwTW efficiency, RTRiveri +

2. Sheffield: Demonstrating an Enterprise level approach to 'Smart' technology, infrastructure and systems.

Learning from and technical integration with the Smart Distribution Pilot

Property / small area flow balance – integrating water consumption and sewer flow data.

3. ISF Hotspot: Expansion of the Intrepid Minds trial in Holbeck?

New ISF hotspot area?

Additional devices to be installed (proposed 5,000)

Integration of additional datasets including rainfall and water consumption?

…… enabling remote intervention, DYNAMIC, EVENT-BASED MAINTENANCE, automated hydraulic control

Sponsor: Network Asset Planning Mgr — Network Improvement

- Network Protection Initiative (Commercial FOG collection)
- SwiftComply York Phase2
- Network Protection Initiative (SwiftComply)
- Lateral 'Spray' Lining
- Water Mains Lining—Sewer applications
- Avoiding cellar draw-offs
- FOG Collection for energy generation
- Sewer rehab. solutions
- FOG Reduction
- Free Roaming Pipe-bots
- Within Pipe Fibre Optics

Yorkshire Waters Future Waste Water Network

Current Period	AMP 7: 2021-2025	AMP 8: 2025-2030

Key: Event | Project | In Progress | Future | Innovation Led | Innovation Supported | IT support required | Additional Data Science support required