

26th World Gas Conference

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Successful Collaboration Projects -
“A range of technological developments to enhance Asset
Management Performance”

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Innovations Director - Synthotech Ltd

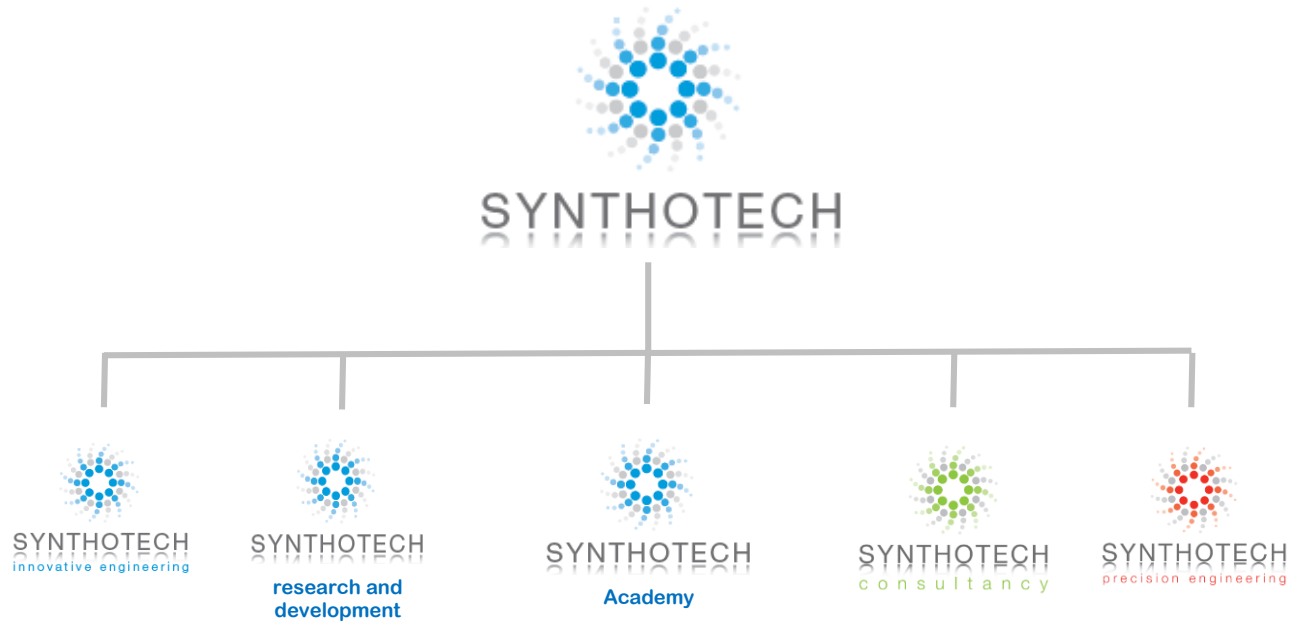


Overview

- Introduction to Synthotech Ltd
- Collaboration in R&D and funding Mechanism
- Case Study 1: TORS – Tier One Replacement System
- Case Study 2: GRAID – Gas Robotic Agile Inspection Device



Company Structure



We Innovate. We Engineer. We Deliver.

Synthotech Ltd

- “Turn Key” UK Innovative Engineering company bringing “best of breed” solutions
- ‘Concept to Reality’ – Ideas, Development, & Delivery
- Providing the “Must Have” technology in regulated utility industries
- Range of products aimed at asset efficient inspection, assessment, remediation and replacement of utilities
- Specialising in the development of robotic solutions for pipes 4” to 48” diameter



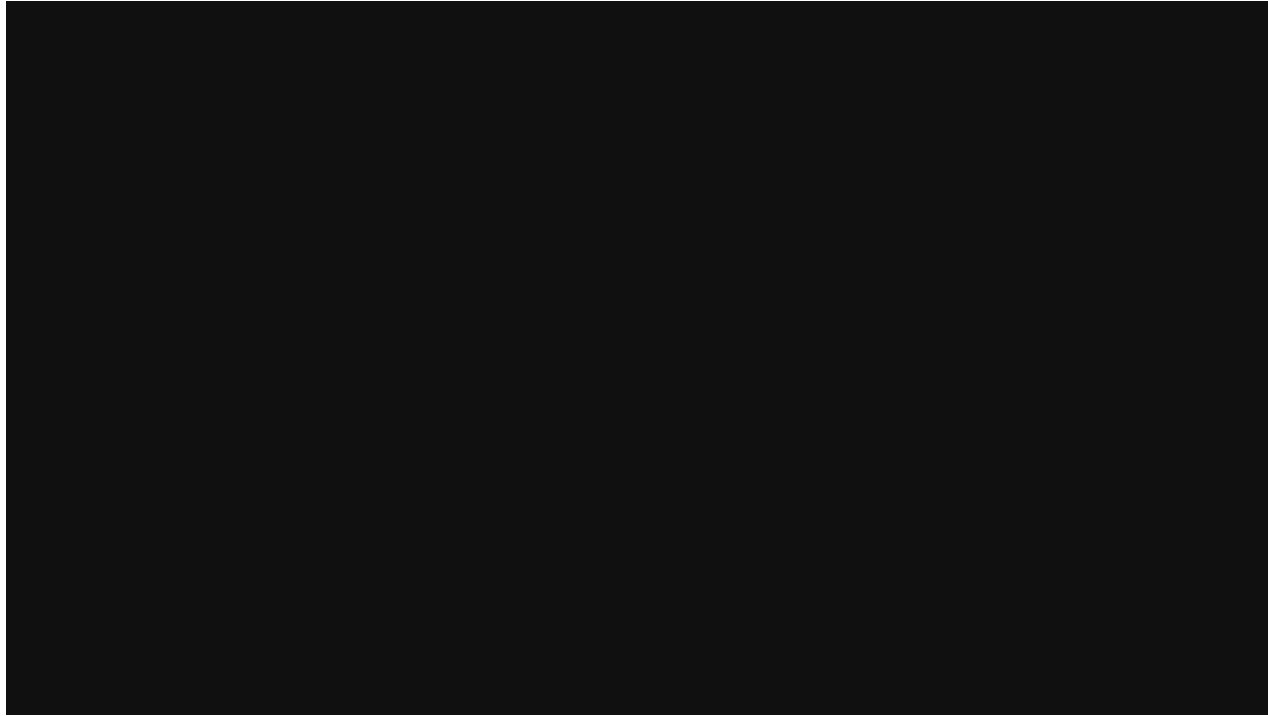
Collaboration in R&D in the UK

2015 - £3m+ in funded OFGEM Projects:

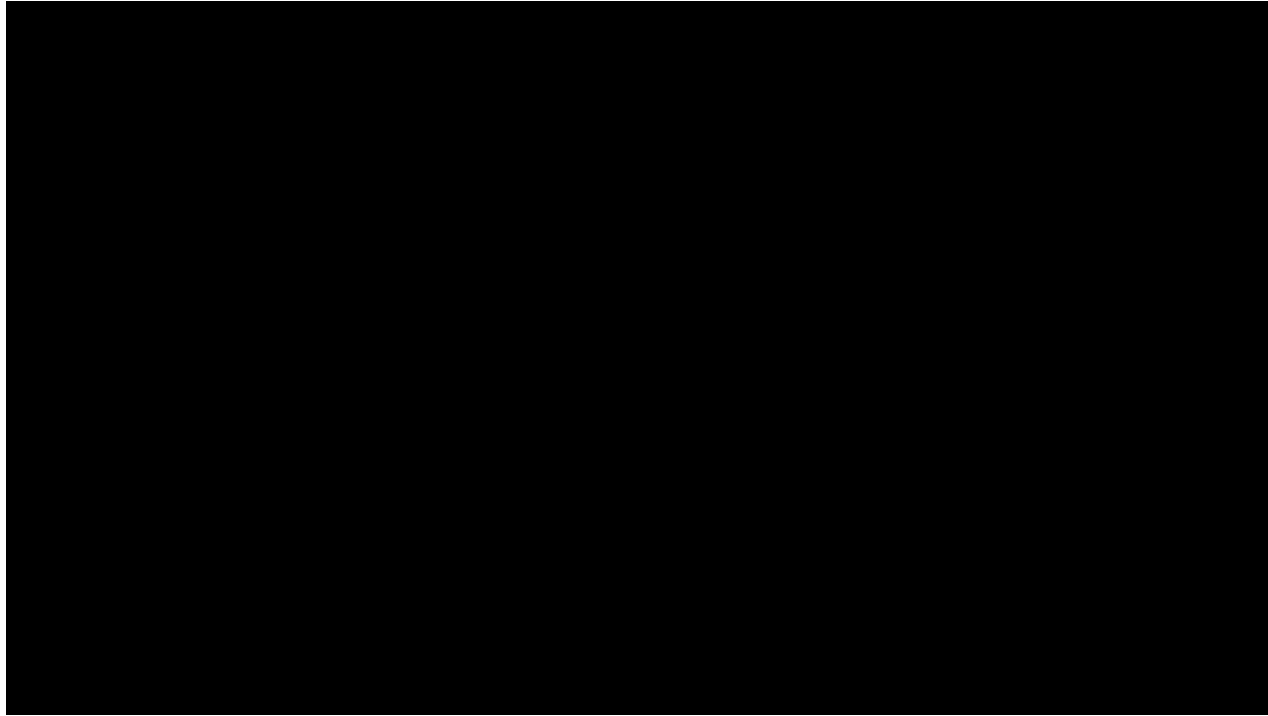
- Portfolio of “Game Changers”
 - Robotics for Distribution Networks
 - Robotics for High Pressure Transmission
 - Water Extraction for Mains and Services
 - Poor Pressure Problems
- Working in Partnership “Hub” - The University of Manchester, The Technology Partnership, University of Leeds, NupiGeco, WRc and many more



TORS – Robots for Distribution Applications



GRAID – Robots for High Pressure Transmission



Conclusion

- We provide the technology to enable the gas asset owners and operators to:
- Access their assets safely under “live” gas
- Inspect & Assess (CCTV & NDT) asset condition
- Repair, Remediate or Replace using innovative tools

“In R&D, collaboration is no guarantee of success, but not collaborating, is certainly a route to failure”



Thank you

If you are interested in collaboration or our projects, please come and see us at our Stands:

Synthotech - S33 & National Grid - R36

- Synthotech Ltd: www.synthotech.com
- National Grid Gas TORS LCNI Video:
<https://www.youtube.com/watch?v=NIRTbx1HPiw>
- National Grid Gas GRAID Video:
www.nationalgridconnecting.com/Robotic_innovation/

