

# 26<sup>th</sup> World Gas Conference

1 – 5 June 2015, Paris, France



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

Wez Little BEng (Hons), CEng, MIEE  
Innovations Director - Synthotech Ltd

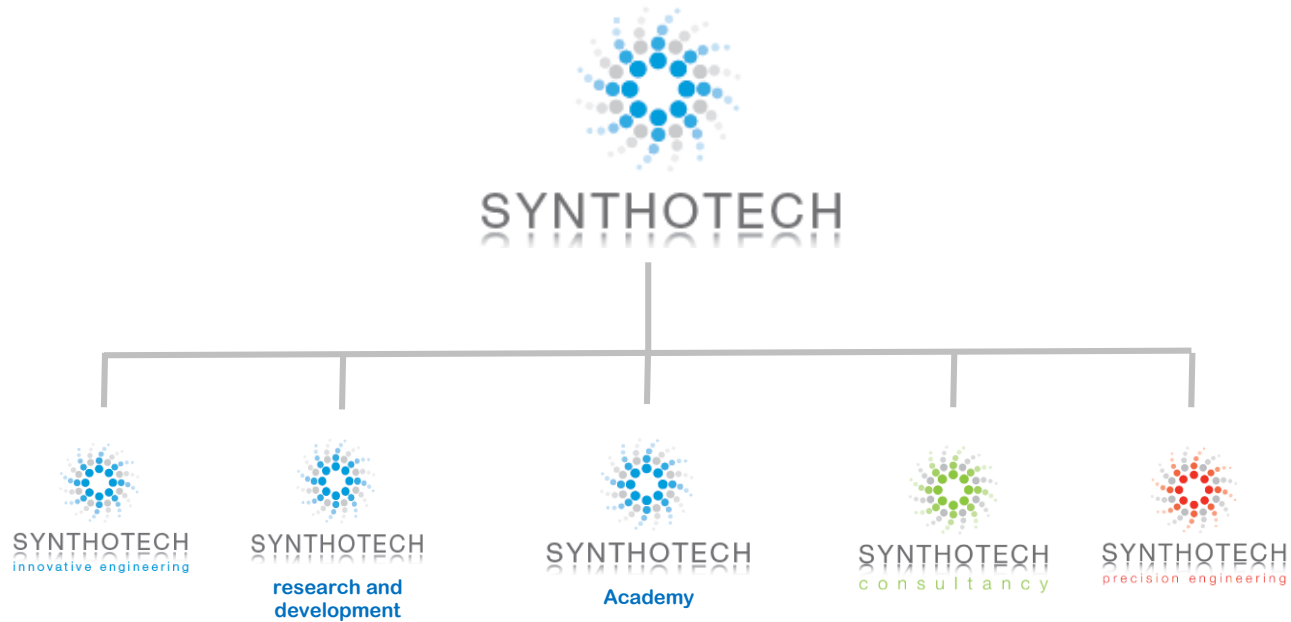


# Overview

- 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.



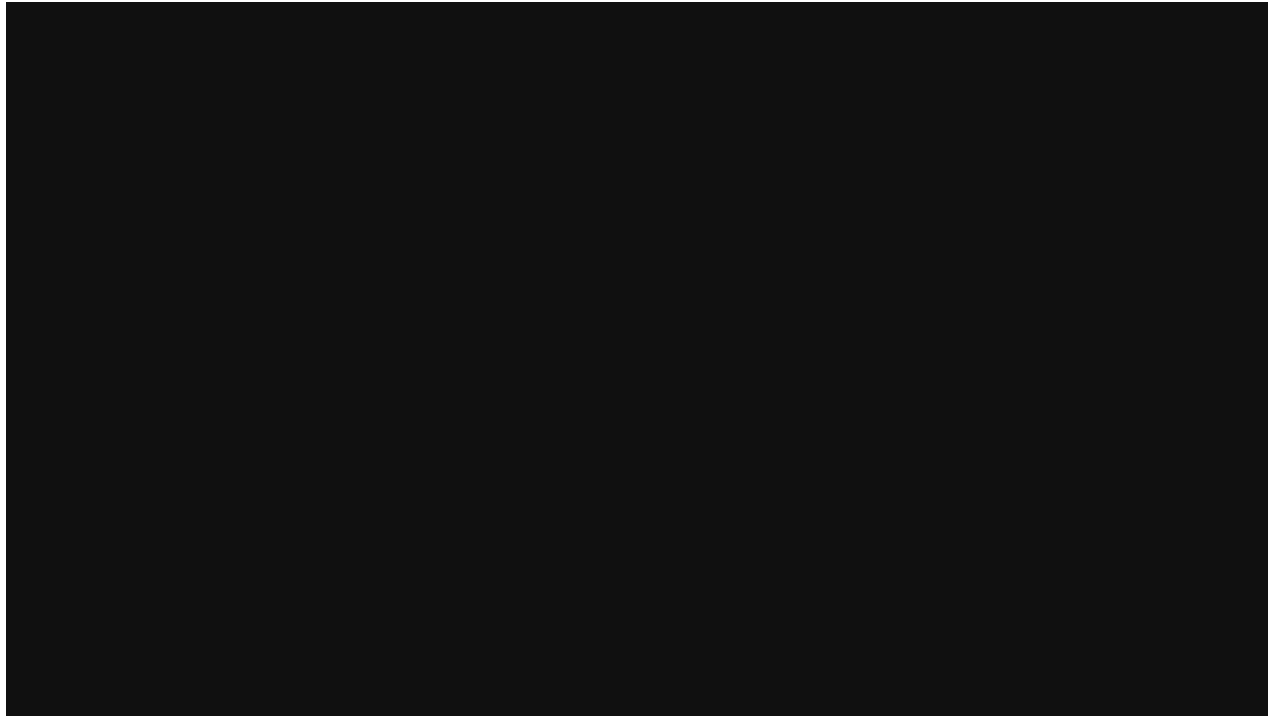
# Collaboration in R&D in the UK

2015 - £3m+ in funded OFGEM Projects:

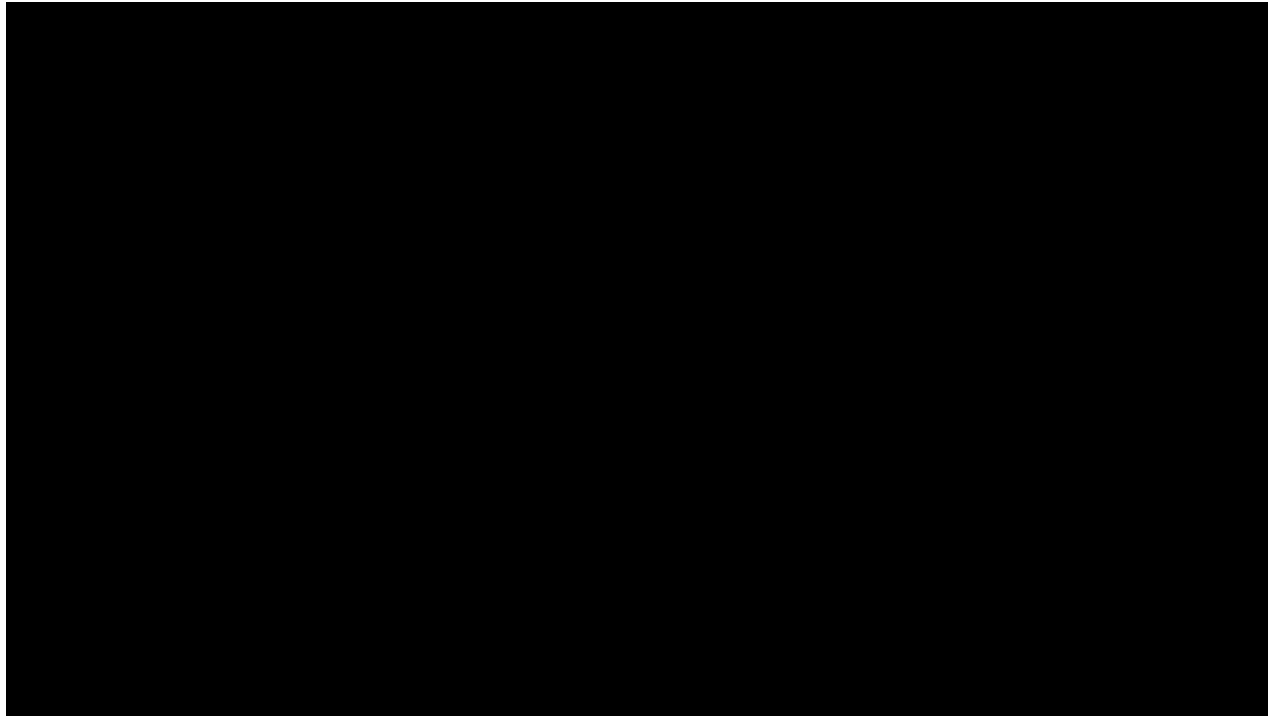
- Portfolio of “Game Changers”
  - Robotics for Distribution Networks
  - Robotics for High Pressure Transmission
  - Water Extraction for Mains and Services
  - Poor Pressure Problems
- Working in Partnership “Hub” - The University of Manchester, The Technology Partnership, University of Leeds, NupiGeco, 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 owner and operators with:
- Access under “live” Gas
- Inspection & Assessment (CCTV & NDT) condition
- Tools to Repair, Remediate or Replace

“Collaboration is no guarantee of success but doing nothing is a guarantee of failure”





# Thank you

- If you are interested in collaboration or our projects, please come and see us at our Stands S33 & R36
- Synthotech Ltd: [www.synthotech.com](http://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/](http://www.nationalgridconnecting.com/Robotic_innovation/)

