

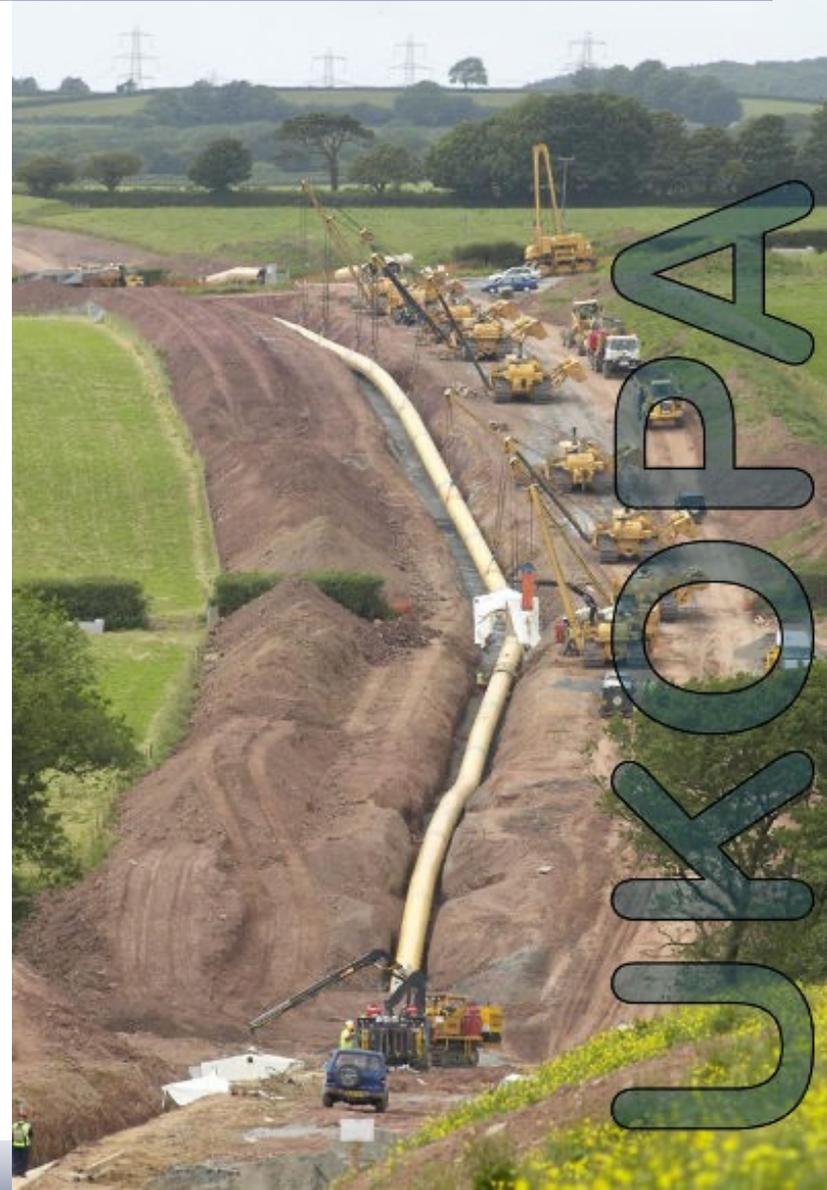
# UKOPA

United Kingdom Onshore Pipeline Operators' Association

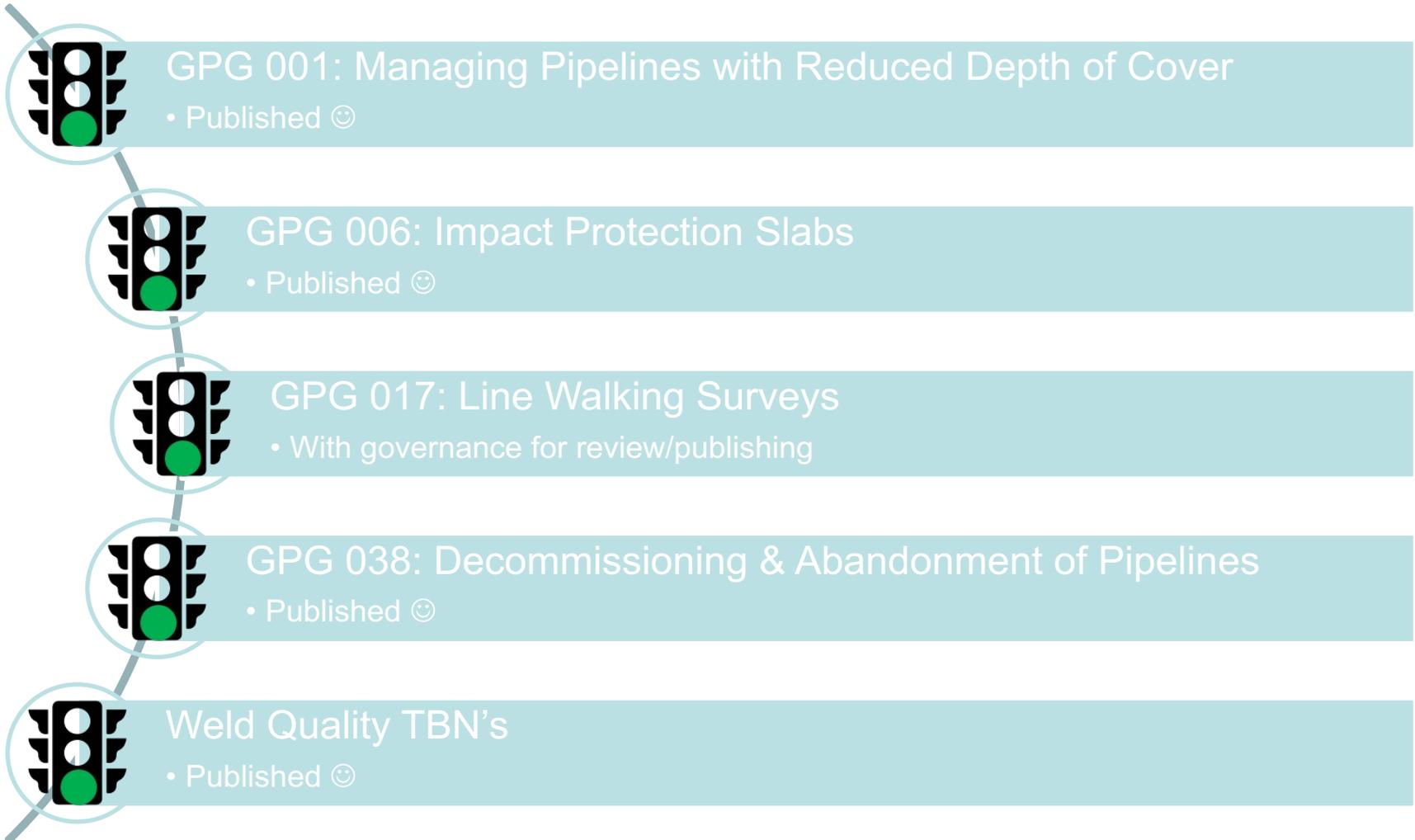
---

## PIWG February 2024 Members' Meeting Update

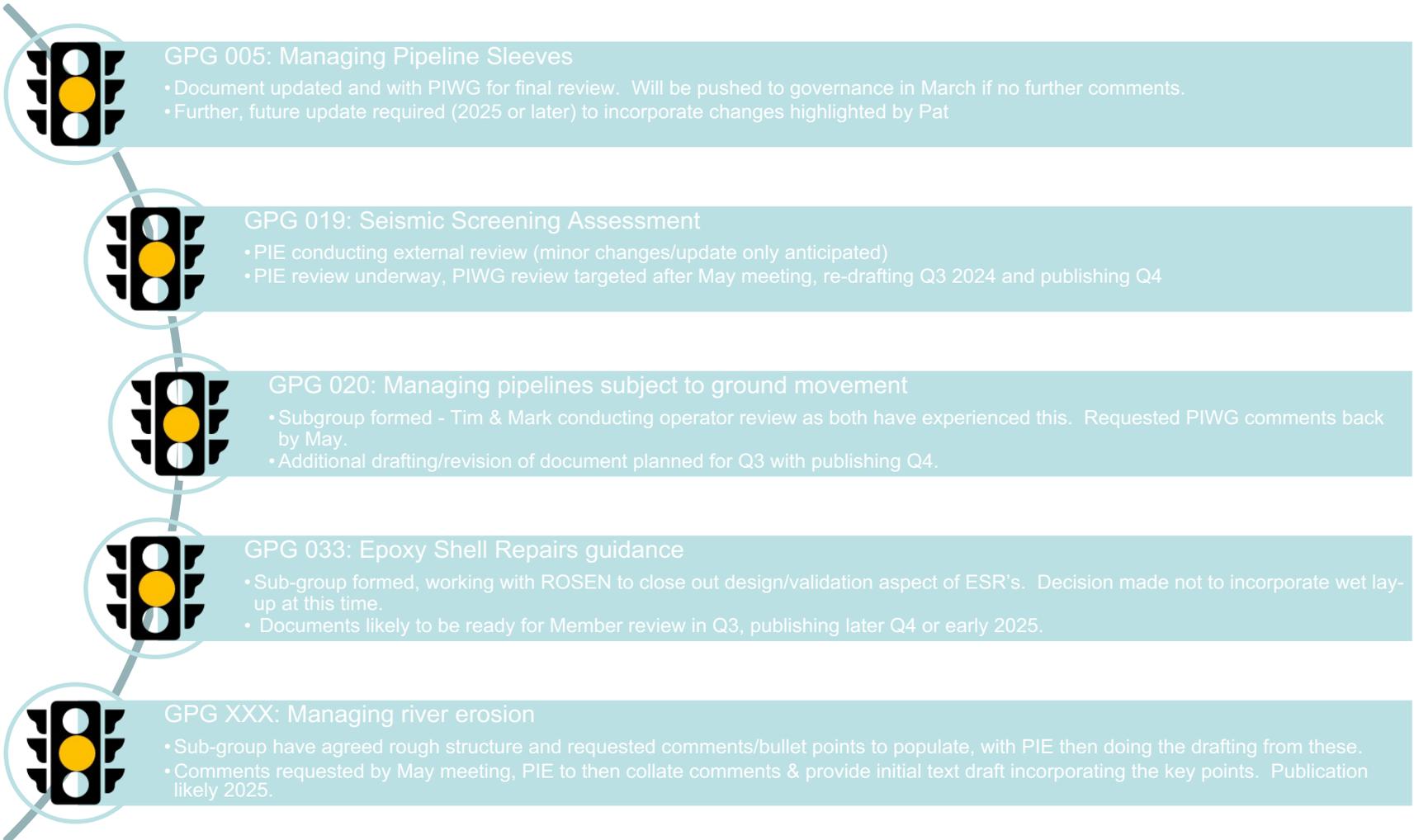
Tim Rudd/Morgan James



# What was closed out in 2023?



# 2024 Document works underway



# 2024 Document works – Not yet started



# 2024 Budget Plan



Activity Description	Service	To be Approved in 2024	Approved previously Amount	Spent prior to 2024	Expenditure (to date)
	Service Provider				Funds Remaining
					(£k)
7 Pipeline Integrity WG		42.90	51.48	18.18	76.20
7.1 Technical Secretariat Support to PIWG (PIE)	PIE	8.82			8.82
7.2 Technical Support to PIWG (PIE)	PIE	13.23			13.23
7.3 Attendance at BSI WGs and Standards Groups	A Cosham	2.00			2.00
7.13 Development of standard for epoxy shell repairs	Rosen	0.00	25.00	15.00	10.00
7.15 Weld Quality Project	Various		20.00	1.95	18.05
7.22 Expenses (approximate)		1.50			1.50
7.29 Scoping GPG for piling and ground vibration	PIE		1.40		1.40
7.30 Development of GPG for piling and ground vibration	tbc	0.00			0.00
7.31 Scoping Strategy for determining the life of sleeves (dependent on 7.12)	PIE		1.40	1.23	0.17
7.32 Development of strategy document for the life of sleeves	tbc		3.68		3.68
7.35 GPG013 Review and update	tbc	3.68			3.68
7.36 Flooding / River Erosion	tbc	3.68			3.68
7.37 5 year review of GPGs / TBNs (019 (PIE), 020 (WG), 021 and 026 (Ext))	various	10.00			10.00

# Weld Quality Project



**Swansea University**  
**Prifysgol Abertawe**

- **MSc: Mechanical properties of vintage Seam Welds**
  - MSc Student started at Swansea in September
    - Literature review well underway, site visit to Ambergate completed
  - Ambergate samples being sent to Valero for sectioning then over to Swansea for testing
    - Issues identifying all samples at Ambergate – if you have sent us stuff previously, please can you let Tim, Nikki or Kirsty know details of what was sent so we can attempt to match it up as samples were not all marked.
    - Mock-up test samples being developed with dummy test pieces



## PhD: Fatigue performance of pre-stressed vintage Girth Welds

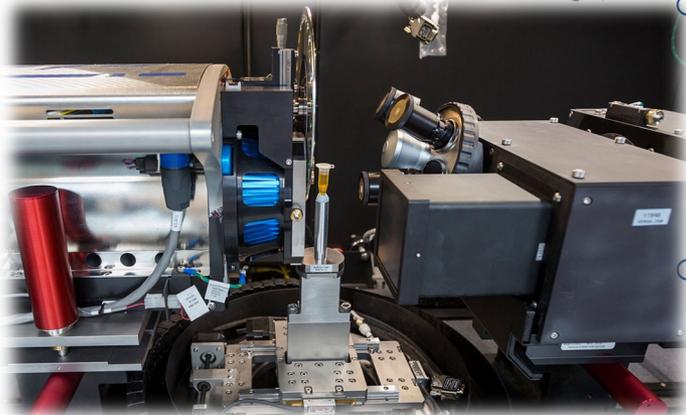
- Swansea has secured research funding for the project and are planning to recruit in next cycle (Sept 2024).
  - Project scope too complex for a Masters student
  - Total project spend circa £19k/yr for 3 years

## Please send across samples!

- Ideally looking for GW samples at least 1m long (longer fine), especially those containing corrosion defects or dents.
- Historical (pre-1972) preferred if possible.

## Where to send samples:

- Mainline Pipeline Ltd, Seisdon Pump Station, Ebbstree Road, Seisdon, WV5 7EY

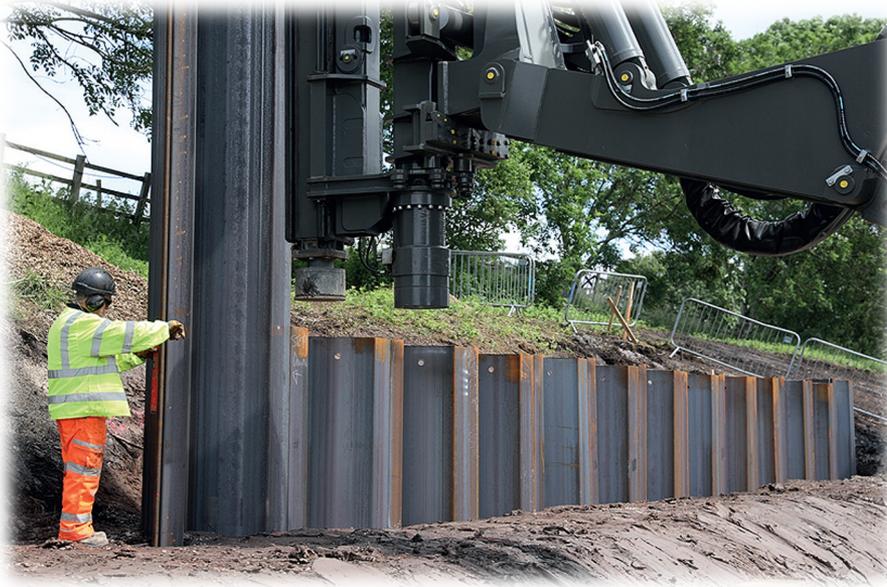


# Ongoing projects

---

- Sleeve project closed
  - Key findings:
    - No statistically significant difference evident in corrosion rates beneath or near sleeves vs. bulk pipe
    - Full presentation with all the detail available on PIWG Members Area (thanks to Chris Lyons)
- ESR Project
  - Members have agreed to provide historical ESR design packs to allow “back calculation” of factors to prove that the scoping tool works
    - If you have ESR design packs you are willing to share please send to me/Nikki
  - PIWG have opted not to accept ROSEN’s proposal to expand to wet lay-up composites at this time
    - It was felt focus should remain on completing original scope, difficult to justify requesting further spend or research until original scope delivered and we have demonstrated value from the tool.
- Loading assessment tool – new project for 2024
  - Project scope is to develop simple tool to help evaluate pipeline loadings at crossings etc.
    - Are load protection slabs needed? (vs. impact protection)
    - In some circumstances, is temporary (non-invasive) protection safer?
- H2 database modifications paused
  - Currently limited demand for variable H<sub>2</sub> service (blends etc.)
    - Rather than trying to guess what data might be required in future, we are simply logging service as H2 for now and can update database in future once operating regimes become clearer.
    - Cancellation of government Hydrogen projects has reduced impetus for this at present.

# New GPG on Piling



- New GPG aimed to represent Good Practise in monitoring and assessing potential impact on piling works
- Looking to set out calculation methodology or approved minimum distances that operators can rely on
- Requesting existing company standards/docs for evaluation prior to drafting
  - Thanks to those from PIWG who have already agreed to provide these
- Scope still to be finalised, but may work with IWG on managing infringement risks
  - Minimum safe distances to avoid physical strikes etc.

- What limits does your industry use?
  - E.g. 25 mm/s?
  - Do you specify a minimum distance?
  - Do you require continuous monitoring?
  - Does this vary with product?
  - Does this vary with diameter?
- Where do these numbers come from?
- Are they conservative enough?

# How does PIWG fit into UKOPA strategy?



- **Sustainability of Pipeline Operations**
  - Identify and progress sustainability initiatives
  - Ensure that reducing carbon footprint is considered in the development of good practice guides
- **Management of current risks associated with pipelines**
  - Proactively develop pipelines integrity initiatives to ensure primary containment
  - Development of good practice and organisation of associated seminars
  - To share knowledge and good practice in relation to pipeline integrity between UKOPA members to mitigate the loss of containment
  - To proactively identify emerging threats to pipeline integrity, progress research where appropriate and develop practical guidance for pipeline operators and other stakeholders
- **Consideration of future pipeline risks**
  - Develop good practice to mitigate against identified risk
- **What specific outputs has PIWG been tasked with delivering?**
  - Produce a plan for the development of sleeve strategy document (PIWG)
  - Completion of epoxy shell repair guidance
  - Commence next MSc welding project with Swansea University
  - Development of GPG for piling and ground vibration
  - Updating of GPG004 Management of Sleeves
  - Review and update GPG013
  - 5 year review of GPGs 019, 020, 021 and 026