PIPELINE INTEGRITY FUNDAMENTALS

MAXIMIZE THE RETURN ON INVESTMENT FROM YOUR INTEGRITY ASSESSMENTS

CLEAN

PRE-INSPECTION CLEANING

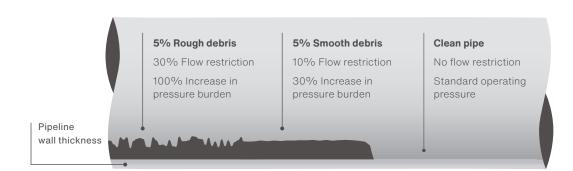
How clean is your pipeline? Don't let debris impede your inspection results. Tough pipeline conditions - scale, black powder, paraffin, condensates, ferrous oxides and general debris - can restrict internal diameter, result in in-line inspection (ILI) tool damage, potentially cause a stuck tool, and/or degrade data quality. Pre-inspection cleaning reduces or eliminates debris and pipe wall deposits, improving inspection sensor contact for more accurate data and higher ILI first-run success rate.

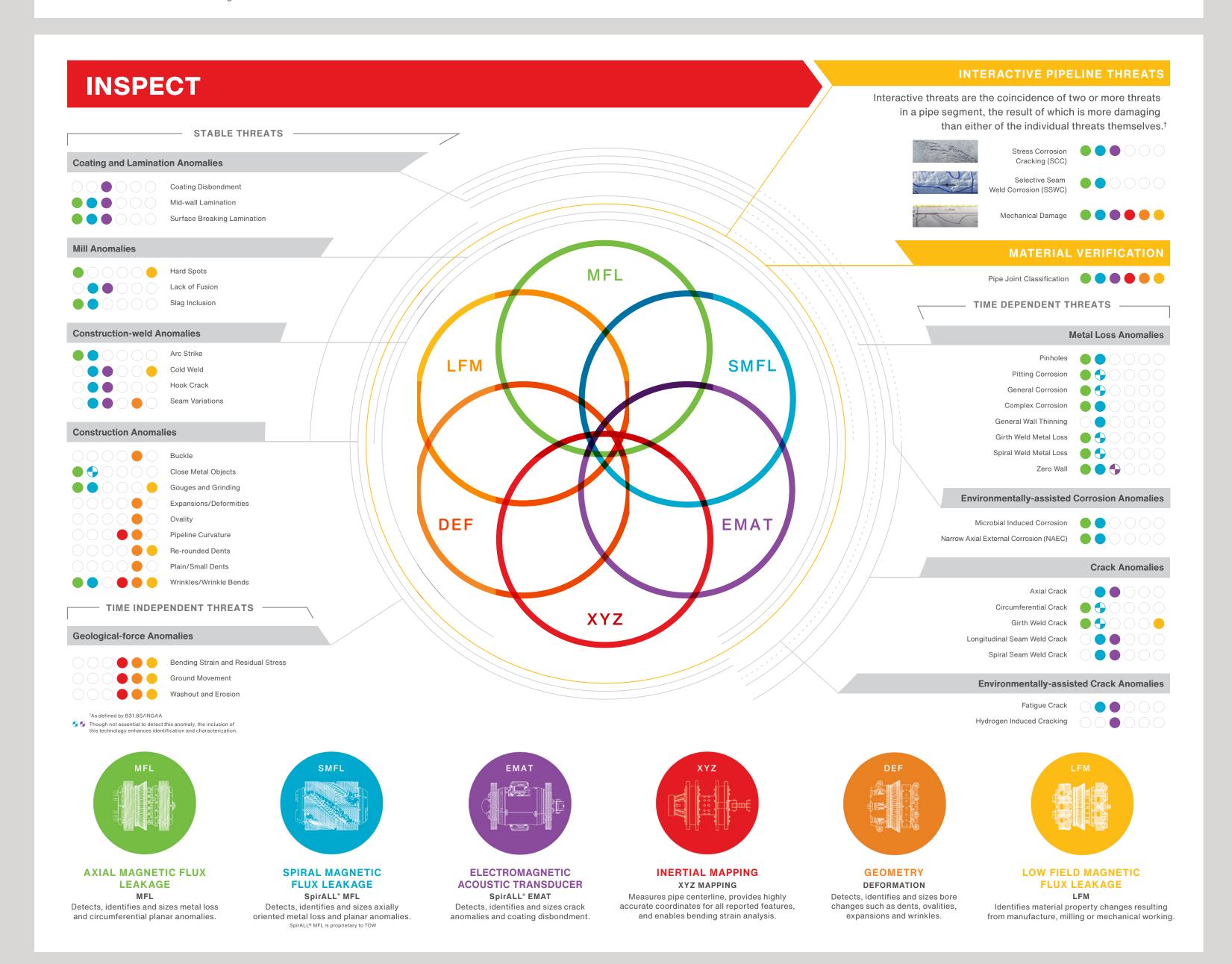
PROGRESSIVE PIGGING

In addition to preparing your line for inspection, progressive pigging can dramatically improve operational efficiency and pipeline performance by using low-to-high aggression pigs to effectively remove debris from a pipeline segment.









VALIDATE

NON-DESTRUCTIVE EVALUATION (NDE)

NDE should be performed to verify the accuracy of ILI so you can prioritize repairs and maintain operational integrity. It can be performed in-situ to quantify the severity of anomalies while your pipelines remain in service.

Positive Material Identification (PMI) is an industry-leading process applied to generate reliable, traceable and verifiable pipe records for material verification. It is a patented proprietary TDW process.



ASSESS & ACT

PIPELINE INTEGRITY ENGINEERING

Data-driven guidance, better integrity decisions

- Immediate Integrity Assessment
- Future Integrity (including Corrosion Growth Assessment)
- Crack Assessment
- Advanced Defect Assessment
- Curvature, Bending Strain and Line Movement
- Dent Prioritization and Assessment
- Interactive Threat Assessment



- Risk and Reliability Studies
- Pipeline Integrity Management Support
- Pipeline Integrity Data Acquisition and Integration
- Training