



PIPELINE INTEGRITY MANAGEMENT SYSTEM (PIMS)

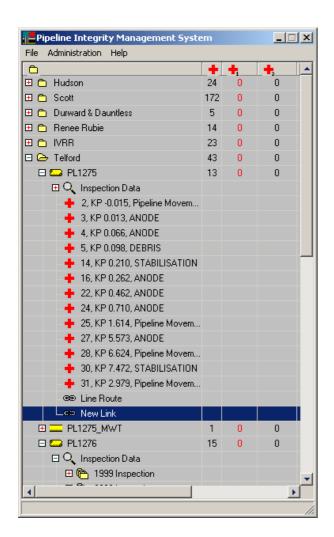
PIMS is a database system for managing subsea pipeline anomalies and inspection data with Integrity Management input, analysis and corrective action control.

Subsea Asset managers do not have the time to filter through the mass of pipeline inspection data and reports to see where the anomalies are and the Integrity Manager doesn't have time to continuously report to the Asset Manager on what is planned for the resolution of any anomalies. Equally, the Integrity Manager has to find more efficient ways of ensuring the operation of a pipeline. This can be achieved by optimizing inspection campaigns, implementing consistency in reporting and anomaly criteria and maintaining an Anomaly Tracking System that provides links to all the relevant current and historical inspection data and integrity input.

Pisys have been developing subsea pipeline inspection and reporting software for more than fifteen years. We have combined this industry knowledge and user understanding, transferred some of the best technology from our existing products, and used all the modern open system technologies to produce a modern, efficient and flexible integrated system that can be packaged and scaled to meet the needs of all subsea asset and integrity managers.

PIMS can be used across an organisation network and can be supplied for both Oracle and SQL database platforms or using flat-files.

Here is a brief functionality overview:-



Tree View Panel with 'Asset' at top level

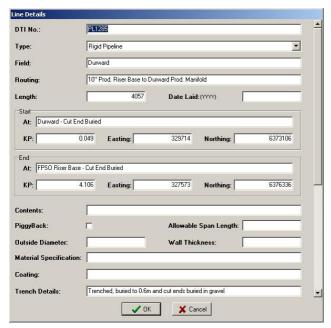
The database is structured from Asset Level down through Line to Anomalies and Inspection Data.

- Relevant info at high level then 'drill-down' for those users most interested.
- Add and report on; Assets, Lines, Inspections, Anomalies and Links
- Asset Manager sees overviews Integrity
 Manager sees all details and inspection data
- User defined column options Anomaly Count,
 Responsibility, Action Date...
- Links to other documents, files, programs, etc can be added at any level eg Field Layout drawing, Pipeline Specifications document, Asset web-site, Inspection Report document, Anomaly photographs, Powerpoint files.....





Assets, lines, anomalies, links and surveys can be added at any time. At each level properties can be added that are used in summary reports.





Data is imported using generic routines. It is possible to import data in many different formats. Data Types include:-

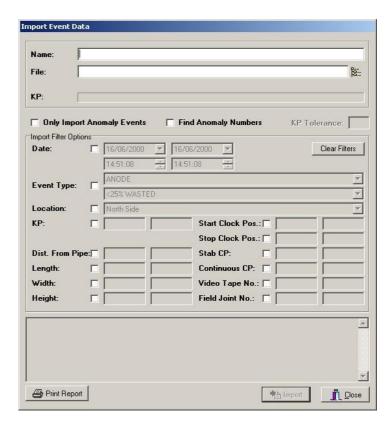
- ✓ Line Properties
- ✓ Existing Anomalies
- ✓ KP Databases
- ✓ Inspection Events Navigation, Transverse Profiles, CP





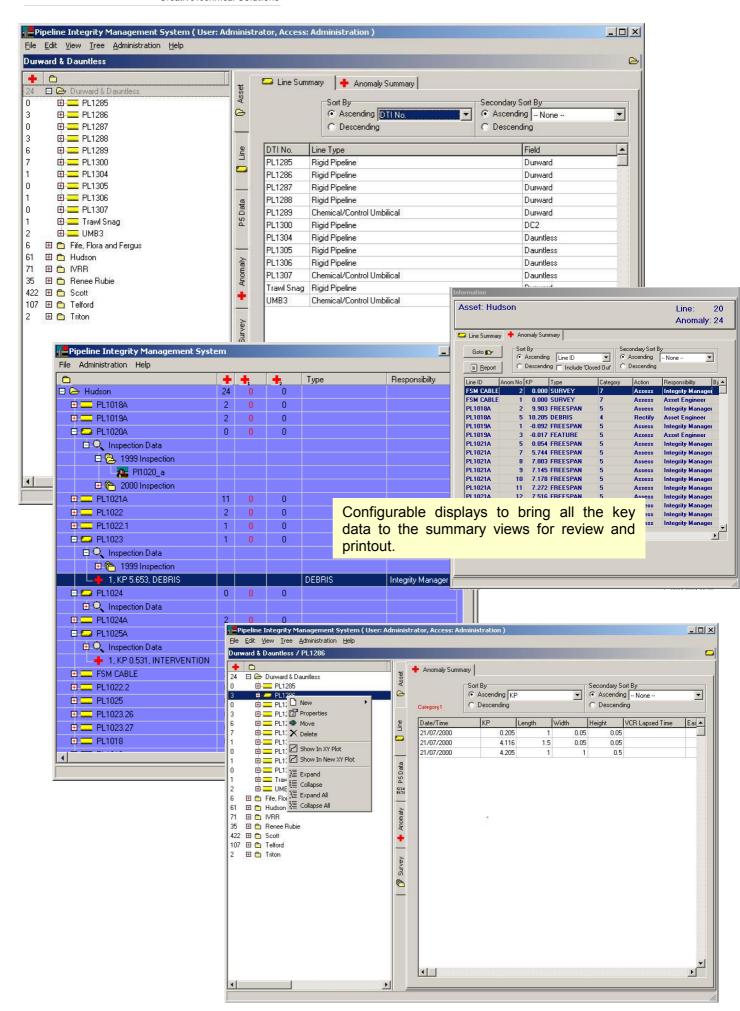


	PI	_1286 <i>J</i> 2	
KP:	4.116	Easting:	
Northing:		DCC:	
Water Depth:		Depth of Burial:	
Gyro:			
Date/Time:	21/07/2000	VCR Lapsed Time:	<u>26</u>
Event Type:	Not Assigned	- 10	•
Event Subtype:	Not Assigned		•
Location:	Not Assigned		•
Distance From Pipe:		Length:	1.5
Width:	0.05	Height:	0.05
Start Clock Position:		Stop Clock Position:	
Stab CP:		Continuous CP:	
Video Tape No.:			
Field Joint:			
Comments:	Scaffold, on pipeline route	3	
	✓ 0K	X Cancel	









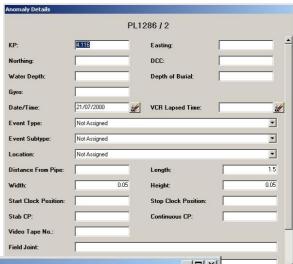


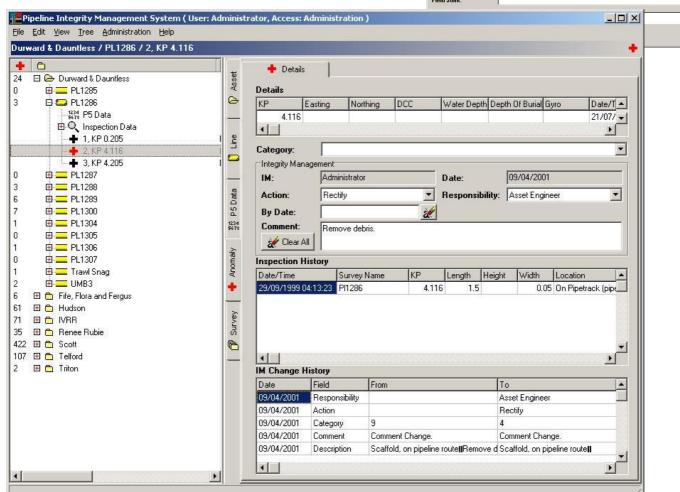


ANOMALY TRACKING

The Integrity Manager, using inspection data and other information, creates the anomalies. In addition to the properties of the anomaly, the user can also specify a Significance, Actions, Responsibilities and schedules.

The data import routines attempt to match incoming data to existing anomalies so the user can see the inspection history.





As the integrity management properties are changed, the IM Change History section is updated. Thereby maintaining an audit trail.



INSPECTION DATA REVIEW

KP Events, databases, Navigation and Profiles can be displayed in a number of combinations on simple graphic displays and included in generic reports.

Qv Thresh -9 Scale

Synectica Limited LONDON UK

Contact Martin Delaney at:

01/09/94 - 01/09/94

14:07:04 - 14:16:40

01/09/94 - 01/09/94

