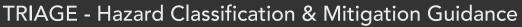


# Aba Data 2.0 NEWS

### PIPELINE INTEGRITY





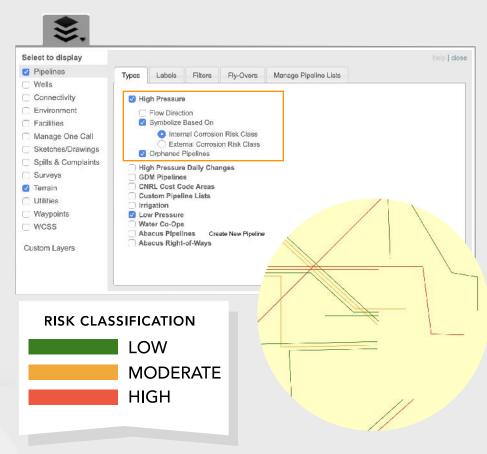
### PIPELINE INTEGRITY MANAGEMENT REPORTS Integrated into AbaData

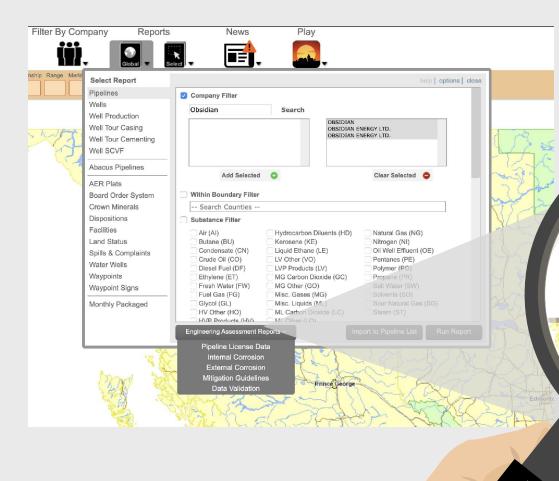


#### Symbolize Map View Display

-Risk Classification
-Internal & External Corrosion

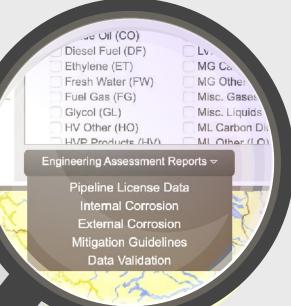






Global & Map Selection Reporting
Engineering Assessment Reports
-Risk Assessment

-Corrosion Mitigation

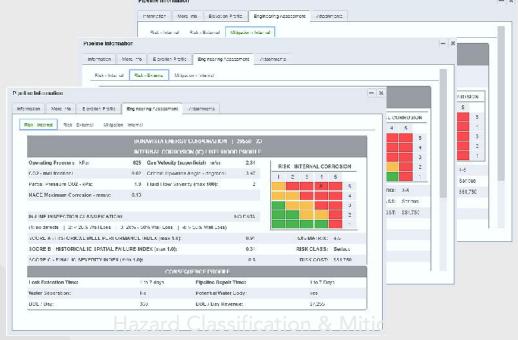






#### **Pipeline Data Cards**

**Engineering Assessment Tabs** -Risk Assessment **Internal & External Corrosion** -Mitigation Guidance Internal Corrosion





### AN OWNER-USER **PROGRAM** FOR **PIPELINES**

Monthly update of corrosion susceptibility and risk for each pipeline within AbaData

Mitigation guidance aligns mitigation with actual corrosion severity

> -Stops existing corrosion from growing

-Prevents new corrosion from starting

		Internal Corrosion						
SEGMENT COUNT		1	2	3	4	5	SUM	%
Consequence Business Loss (S)	5	36	29	7	21	5	98	7%
	4	38	86	42	42	14	222	16%
	3	27	125	107	47	17	323	24%
	2	71	110	52	34	10	277	21%
	1	10	9	10	1		30	2%
SUM		182	359	218	145	46		

Increasing Likelihood of Pineline Leak

Corporte Summary - Internal Corrosion						
col	TNL	RISK CLASS				
234	25%	SERIOUS				
478	50%	MODERATE				
238	25%	LOW				
950	100%	TOTAL				

PERCENT OF TOTAL



- In-house ownership of pipeline integrity hazard assessment & response
- A hierarchy of preferred mitigation options for each pipeline within AbaData
  - Field, operations apply their knowledge and experience to create the best work schedules
  - Creates industry-leading Agenda for field chemical team meetings
  - Eliminates historical misallocation of chemicals onto low-risk pipelines





TRIAGE is fully integrated into data viewing and reporting workflow within AbaData.



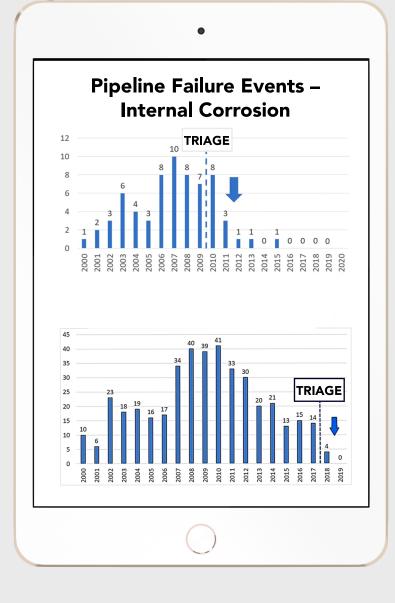
## THE FOUNDATION OF CORPORATE SLMS INTEGRITY MANAGEMENT PROGRAMS











### TRIAGE

has Proven more Effective than Industry Standard Methods

Elimination of internal corrosion pipeline failures

- 8,000 operating production gathering pipelines
- \$7,000,000 / year combined chemical cost savings









#### **BASELINE HAZARD ASSESSMENT**

- Corrosion by produced fluids
- CO2 / H2S / bacteria
- Water-film transport
- Stagnant water traps

#### **BLIND-SPOT INTEGRITY HAZARDS**

- Unique from all other methods
- Application of data pattern analytics onto 40-years of AER data revealed how well upstream behaviour influences corrosion
  - Start-up production surges
  - Up-lift of biomass sludge



TRIAGE considers corrosion hazards otherwise overlooked by standard industry methods

# TRIAGE

**CORROSION HAZARD** TRIANGLE

Positioning Field, Chemical Teams to Better Align Mitigation Costs to **Actual Pipeline Conditions** 

