

Hatfield-5404: Monitoring of pipeline right of way for third party mechanical damage

Monitoring of pipeline right of way for third party mechanical damage

Challenge

Challenge ID:	HCP-5404	Originator:	Onshore: Hatfield
Title:	Monitoring of pipeline right of way for third party mechanical damage.		
Theme:	ON 5.4: Logistics planning and operations - Monitoring of assets		
Consortium Lead:	C-CORE	Interviewed Company:	C-CORE
Geography:	ON.REG.00 - Generic onshore		
Challenge Description			
What is not possible / not adequately addressed at present?			
Health and safety and asset protection requires the detection of mechanical damage and/or threats to pipelines from construction equipment.			
What effect does this challenge have on operations?			
Mitigate environmental issues and reduce disruption to operations and production.			
Thematic information requirements:		Distribution and status of assets	
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Carry out field surveys and aerial surveys.			
What kind of solutions do you envisage could address this challenge?			
Daily revisit, high-resolution, target detection/discrimination.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
EO used in selected areas, cost is too high for full implementation. There are awareness issues and operational issues.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	0	Climate class:	Generic climate
Exploration:	0	Topographic class:	Not specific
Development:	0	Seasonal variations:	Any season
Production:	4	Impact area:	Environmental
Decommissioning:	0	Technology urgency:	3 - Immediately (0-2 years)
Challenge Information Requirements			
Update frequency:	Daily		
Data currently used:	Aerial imagery, UAVs, field assessments		
Spatial resolution:	License		
Thematic accuracy:	Detection accuracy over 95% with low false alarm rate		
Required formats:	Not specific		
Timeliness (Vintage):	Daily		
Geographic extents:	License		
Existing standards:	None		

Relevant products

Content by label

There is no content with the specified labels