

Hatfield-5405: Monitor potential pipeline corridor encroachment by communities

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Challenge

Challenge ID:	HCP-5405	Originator:	Onshore: Hatfield
Title:	Monitor potential pipeline corridor encroachment by communities.		
Theme:	ON 5.4: Logistics planning and operations - Monitoring of assets		
Consortium Lead:	Hatfield	Interviewed Company:	Hatfield
Geography:	ON.REG.00 - Generic onshore		
Challenge Description			
What is not possible / not adequately addressed at present?			
Need for improved detection and monitoring of encroachment over time by communities that are proximal to pipeline infrastructure.			
What effect does this challenge have on operations?			
Potentially hazardous to crews and community due to operations.			
Thematic information requirements:	Ortho base images Distribution and status of infrastructure Distribution and status of assets Land use		
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?			
Use UAVs to monitor.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Already feasible and cost-effective with moderate resolution optical imagery (5 m) but it is important to have access to archives to achieve a baseline.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	3	Climate class:	Generic climate
Exploration:	0	Topographic class:	Not specific
Development:	3	Seasonal variations:	Any season
Production:	4	Impact area:	Environmental, HSE, cost reduction
Decommissioning:	2	Technology urgency:	2 - Short term (2-5 years)
Challenge Information Requirements			
Update frequency:	Monthly to weekly		
Data currently used:	Aerial imagery, field assessments		
Spatial resolution:	License		
Thematic accuracy:	Higher accuracy for exposed pipelines vs vegetation overgrowth for example		
Required formats:	Not specific		
Timeliness (Vintage):	Monthly		

Geographic extents:	License
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels