

Hatfield-5305: Identify existing linear routes for co-location of pipelines in wilderness areas

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Challenge

Challenge ID:	HCP-5305	Originator:	Onshore: Hatfield
Title:	Identify existing linear routes for co-location of pipelines in wilderness areas.		
Theme:	ON 5.3: Logistics planning and operations - Facility siting, pipeline routing and roads development		
Consortium Lead:	Hatfield	Interviewed Company:	Hatfield
Geography:	ON.REG.00 - Generic onshore		
Challenge Description			
What is not possible / not adequately addressed at present?			
Need maps of existing linear infrastructure routes and corridors that may be abandoned or belong to other operators within or proximal to current or future operating areas.			
What effect does this challenge have on operations?			
Reduced costs and increased access are possible if existing linear corridors can be repurposed or shared rather than clearing new routes.			
Thematic information requirements:		Land use Distribution and status of infrastructure	
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Analysis of high-resolution imagery and LiDAR in combination with existing data or report/licensing information.			
What kind of solutions do you envisage could address this challenge?			
High-resolution multispectral images to determine vegetation disturbance.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Need EO with sufficient spatial resolution to determine corridors. Changes in canopy elevations can identify existing linear corridors.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	1	Climate class:	Generic climate
Exploration:	3	Topographic class:	Forest / woodland
Development:	3	Seasonal variations:	Any season
Production:	0	Impact area:	Environmental, Health and Safety, Cost reduction
Decommissioning:	0	Technology urgency:	2 - Short term (2-5 years)
Challenge Information Requirements			
Update frequency:	Snapshot		
Data currently used:	Aerial imagery, optical imagery, LiDAR, field assessments		
Spatial resolution:	License		
Thematic accuracy:	Not specific		
Required formats:	Not specific		
Timeliness (Vintage):	Within six months		

Geographic extents:	Basin
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels