Hatfield-4209: Monitor onshore pipeline right of way (RoW) to evaluate successions of vegetation communities

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Challenge

Challenge ID:	HCP-4209		Originator: Onshore:		Hatfield		
Title:	Monitor onshore pipeline right of way (RoW) to evaluate successions of vegetation communities.						
Theme:	ON 4.2: Environmental monitoring - Continuous monitoring of changes throughout the lifecycle						
Consortium Lead:	Hatfield		Interviewed Company:				
Geography:	ON.REG.08 - Papua New Guinea						
Challenge Description							
What is not possible / not adequately addressed at present?							
Environmental commitments and need to assess and monitor successional changes in vegetation along pipelines corridors.							
What effect does this challenge have on operations?							
Recurring inspections of existing infrastructure and RoWs have ongoing costs that could be reduced. Evaluating successional regrowth rates is an important factor in addressing environmental commitments.							
Thematic information Land cover							
requirements:	ilation	Distribution of habitat and biodiversity					
Distribution and status of infrastructure							
What do you currently do to address this challenge?							
How is this challenge conventionally addressed?							
Depending on access and remoteness issues, monitoring is done by field crews or aerial surveys. Some use of remote sensing.							
What kind of solutions do you envisage could address this challenge?							
Multi-spectral sensors to detect vegetation in combination with LiDAR to monitor vegetation type and height.							
What is your view on the capability of technology to meet this need?							
	Are you currently using EO tech? If not, why not?						
Change detection is a mature process but improvements to mapping accuracy may be achieved with the addition of LiDAR.							
Challenge Classification							
Impact on Lifecycle (0=none 4=high):		=none,	Climate / Topography / Urgency:				
Pre-license:		1	Climate class:		Generic climate		
Exploration:		0	Topographic c	class:	Not specific		
Development:		2	Seasonal varia		Any season		
Production:		3	Impact area:		Environmental		
Decommissioni	ng:	2	Technology un	rgency:	1 - Mid-Term (5-10 years)		
Challenge Information Requirements							
Update frequency: Annually							
Data currently u	_		rial photography, LiDAR				
Spatial resolution							
	Thematic accuracy: Not specific						

Required formats:	Not specific
Timeliness (Vintage):	Annually
Geographic extents:	License
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels