Hatfield-4203: Monitor "induced access" corridors to assess indirect impacts or effects as a result of project development.

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Challenge

Challenge ID:	HCP-4203	Originator:	Onshore: Hatfield
Title:	**Monitor "induced access" corridors to assess indirect impacts or effects as a result of project development.**		
Theme:	ON 4.2: Environmental monitoring - Continuous monitoring of changes throughout the lifecycle		
Consortium Lead:	Hatfield	Interviewed Company:	Hatfield
Geography:	ON.REG.00 - Generic onshore		

Challenge Description	
What is not possible / not adequately addressed at present?	
Exploration and development can provide access to areas for local communities. This 'induced access' needs to be properly mapped and monitored to study effects / impacts on forests (i.e. illegal logging), and flora and fauna (e.g. illegal hunting).	
What effect does this challenge have on operations?	
In remote areas and challenging terrain, it can be difficult to detect, monitor and manage the impacts of induced access. The issue is important from an environmental and social risk management perspective.	
Thematic information requirements:	Land cover Land use
What do you currently do to address this challenge? How is this challenge conventionally addressed?	
Field surveys, high resolution imagery, security along corridors.	
What kind of solutions do you envisage could address this challenge?	
Monitoring of linear features and use of high resolution optical imagery for detection of disturbance. Cost-effective solution.	
What is your view on the capability of technology to meet this need? Are you currently using EO tech? If not, why not?	
Technologically possible, but the methods are not well established. Requires more study and validation.	

Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	0	Climate class:	Generic climate
Exploration:	2	Topographic class:	Forest / woodland
Development:	4	Seasonal variations:	Warmer weather focus
Production:	4	Impact area:	Environmental
Decommissioning:	3	Technology urgency:	2 - Short term (2-5 years)

Challenge Information Requirements	
Update frequency:	Annually

Data currently used:	LiDAR Aerial imagery High resolution optical imagery
Spatial resolution:	License
Thematic accuracy:	Not specific
Required formats:	Not Specific
Timeliness (Vintage):	Within six months
Geographic extents:	License
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels