Hatfield-1205: Identify steep slopes to assess potential constraints to access in forested areas

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Challenge

Challenge ID:	HCP-1205	Originator:	Onshore: Hatfield
Title:	**Identify steep slopes to assess potential constraints to access in forested areas.**		
Theme:	ON 1.2: Seismic Planning - Identification of adverse terrain for trafficability		
Consortium Lead:	RPS Group	Interviewed Company:	RPS Group
Geography:	ON.REG.00 - Generic onshore		

Challenge Description	
What is not possible / not adequately addressed at present?	
Knowing topography and terrain restrictions is important, particularly in man-portable operations. Cliffs, ravines and areas greater then 40% grade all pose access issues in seismic operations.	
What effect does this challenge have on operations?	
Moving people and equipment around areas that are too steep for human travel can have a considerable effect on survey time and personnel safety.	
Thematic information requirements:	Terrain information Topographic information
What do you currently do to address this challenge? How is this challenge conventionally addressed?	
LiDAR.	
What kind of solutions do you envisage could address this challenge?	
Bare earth digital terrain models equivalent to LiDAR.	
What is your view on the capability of technology to meet this need? Are you currently using EO tech? If not, why not?	
Would be beneficial to have a cost-effective and better resolution option to the freely available 90m resolution SRTM data which is not effective in areas with tree cover.	

Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	2	Climate class:	Generic climate
Exploration:	4	Topographic class:	Forest / woodland
Development:	2	Seasonal variations:	Any season
Production:	2	Impact area:	Health and Safety, Cost reduction
Decommissioning:	1	Technology urgency:	2 - Short term (2-5 years)

Challenge Information Requirements	
Update frequency:	Snapshot
Data currently used:	Reconnaissance, LiDAR, high resolution imagery
Spatial resolution:	License
Thematic accuracy:	Not specific
Required formats:	Not Specific

Timeliness (Vintage):	Reference data
Geographic extents:	Basin
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels