Hatfield-1103: Identify soft and hard ground as areas of potentially poor source and receiver coupling

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Challenge

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Challenge ID:	HCP-1103		Originator:	Onshore: Hatfield		
Title:	Identify soft and hard ground as areas of potentially poor source and receiver coupling.					
Theme:	ON 1.1: Seismic Planning - Areas of poor coupling					
Consortium Lead:	RPS Group		Interviewed Company:	RPS Group		
Geography:	ON.REG.03 - Canada					
Challenge Description						
What is not pos	sible / not ad	lequately add	dressed at pres	ent?		
Information on the distribution of potentially poor coupling areas such as gravel, sandy, and wet areas.is required. Allows for mitigation by increasing source or receiver effort and/or pre-planning for increased or modified data processing efforts.						
	What effect does this challenge have on operations?					
Soft, saturated ground can affect data quality and value. Operations are limited in terms of location or season where soft ground is present.						
Thematic information requirements:		Land cover Topographic information Water Quantity				
What do you currently do to address this challenge? How is this challenge conventionally addressed?						
Planning using high quality topographic mapping data where available. Adjust timing to conduct operations in cold weather or bring in very specialized equipment (at very high cost). Adjust timing to the dry season. Accepting sub-optimal data as the only option in warm weather operations. What kind of solutions do you envisage could address this challenge?						
Vegetation interpretation related to the underlying soil condition. Soil moisture information						
What is your view on the capability of technology to meet this need? Are you currently using EO tech? If not, why not?						
LiDAR can help to identify vegetation types and stand heights. Satellite-based EO needs to compete on price and capability.						

Challenge Classification						
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:				
Pre-license:	2	Climate class:	Dry, Severe Mid-Latitude, Polar			
Exploration:	3	Topographic class:	Not specific			
Development:	2	Seasonal variations:	Any season			
Production:	1	Impact area:	Data Quality			
Decommissioning: 1		Technology urgency:	3 - Immediately (0-2 years)			
Challange Information Dequirements						

Challenge Information Requirements			
Update frequency:	Snapshot		

Data currently used:	Topographic maps
Spatial resolution:	Regional, Basin
Thematic accuracy:	Not specific
Required formats:	Not Specific
Timeliness (Vintage):	Reference data
Geographic extents:	Regional
Existing standards:	None

Relevant products Relevant products

Content by label

There is no content with the specified labels