Hatfield-2505: Identify geophysical properties of the subsurface

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Challenge

Challenge ID:	HCP-2505		Originator:	Onshore: Hatfield			
Title:	Identify geophysical properties of the subsurface.						
Theme:	ON 2.5: Surface Geology Mapping - Engineering geological evaluation						
Consortium Lead:	Arup		Interviewed Company: Arup				
Geography:	ON.REG.00 - Generic onshore						
Challenge Description							
What is not possible / not adequately addressed at present?							
Identify geophysical properties to inform geological modelling and geotechnical evaluations.							
What effect does this challenge have on operations?							
Surface geophysical and airborne geophysical are expensive and have health and safety concerns.							
Thematic information requirements:		Lithology, structural geology, surficial geology					
What do you currently do to address this challenge? How is this challenge conventionally addressed?							
Surface and down-hole geophysics, but not always possible due to site / location constraints							
What kind of solutions do you envisage could address this challenge?							
Spaceborne geophysics to complement airborne and ground based geophysical surveys.							
What is your view on the capability of technology to meet this need? Are you currently using EO tech? If not, why not?							
EO can complement ground based and airborne techniques and provide wider geographic coverage at lower cost. High resolution DEMs required for modelling and terrain correction during geophysical processing.							
Challenge Classification							
Impact on Lifecycle (0=none, 4=high):			Climate / Topography / Urgency:				
Pre-license:		1	Climate class:		Generic climate		
Exploration:		3	Topographic c	lass:	Not specific		
Development:		3	Seasonal variations:		Any season		
Production:		2	Impact area:		Health and Safety, Cost reduction		
Decommissionin		0	Technology un	rgency:	2 - Short term (2-5 years)		
Challenge Information Requirements							
Update frequency							
Data currently us							
*		Regional to License					
Thematic accura		Not specific					
Required formats		Not Specific					
Timeliness (Vintage):		Reference data					
Geographic extents: License							

Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels