Hatfield-1215: Identify UXO related hazards

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Challenge

Challenge ID: HCP-121	5	Originator:	Onshore:	Hatfield		
Title: Identify	UXO related hazards.					
Theme: ON 1.2: S	ON 1.2: Seismic Planning - Identification of adverse terrain for trafficability					
Consortium Lead: RPS Grou	RPS Group		RPS Gro	bup		
Geography: ON.REG.	ON.REG.00 - Generic onshore					
Challenge Description						
What is not possible / not adequately addressed at present?						
Historical conflicts present health and safety risks for surveys with numerous Explosive Remnants of War (ERW). In Poland this is prevalant in border areas where the Eastern front of WWII saw heavy fighting. Some areas have fallen into mis-use and never been cleared. Both farmed and forested areas pose a risk to Vibroseis activity and dynamite operations that could disturb ERW/UXO located below usual tillage depths. In addition forested areas pose a risk to receiver layout crews where ERW has laid undisturbed since the conflict. In more modern conflicts like Iraq and Kurdistan many cluster munitions and minefields remain in place and pose a serious risk to all workers.						
What effect does this challenge have on operations?						
Projects need to have potential areas with ERW identified, delineated and possibly cleared for ERW/UXO. This effort can be significant both in time and cost.						
Thematic information Terrain information						
requirements.	UXO hazar		d			
	Distribution and status of infrastructure					
What do you currently do to address this challenge? How is this challenge conventionally addressed?						
Creation of a battle picture from archived satellite imagery. UXO clearance survey procedures on the ground.						
What kind of solutions do you envisage could address this challenge?						
Airborne or satellite solution would be useful. This could be high resolution imagery and thermal imaging techniques.						
What is your view on the capability of technology to meet this need? Are you currently using EQ tech? If not, why not?						
Although many modern ERW are constructed to avoid detection, thermal and magnetic imaging may show up particular items. High resolution imagery will help assist identifying both offensive and defensive positions and cluster bomb strike locations.						
Challenge Classification						
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:				
Pre-license:	1	Climate class:		Generic climate		
Exploration:	2	Topographic of	class:	Not specific		
Development:	1	Seasonal varia	ations:	Any season		
Production:	1	Impact area:		Health and Safety, Cost reduction		
Decommissioning:	1	Technology u	rgency:	3 - Immediately (0-2 years)		
Challenge Information Requirements						
Update frequency:	Snapshot					
Data currently used:	Ground survey					

Spatial resolution:	Basin
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