

# Hatfield-1215: Identify UXO related hazards

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## Challenge

<b>Challenge ID:</b>	HCP-1215	Originator:	Onshore: Hatfield
<b>Title:</b>	<b>Identify UXO related hazards.</b>		
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		
<b>Challenge Description</b>			
What is not possible / not adequately addressed at present?			
<p>Historical conflicts present health and safety risks for surveys with numerous Explosive Remnants of War (ERW). In Poland this is prevalent 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.</p>			
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 requirements:	Terrain information Land Use UXO hazard 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 EO 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.			
<b>Challenge Classification</b>			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	1	Climate class:	Generic climate
Exploration:	2	Topographic class:	Not specific
Development:	1	Seasonal variations:	Any season
Production:	1	Impact area:	Health and Safety, Cost reduction
Decommissioning:	1	Technology urgency:	3 - Immediately (0-2 years)
<b>Challenge Information Requirements</b>			
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

