Hatfield-1209: Identify land parcel boundaries for impact compensation

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Challenge

Challenge ID:	HCP-1209	Originator:	Onshore: Hatfield
Title:	**Identify land parcel boundaries for impact compensation.**		
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?			
As part of the land permitting process individual land parcels need to be identified to assess the impact of a survey on each individual land owner to quantify the amount of compensation due.			
What effect does this challenge have on operations?			
Compensation payments can be a considerable cost and the better this is managed pays dividends further down the value chain. Depending on the concentration of individual land parcels this can be a large operation in data management, which is made much easier when combined with GIS. The ability to graphically compare land parcel boundaries with post-plot survey information makes for a more effective permitting system.			
Thematic information requirements:	Land use		
What do you currently do to address this challenge? How is this challenge conventionally addressed?			
In countries that have a digital repository of land tenure boundaries this process is considerably easier as all the acquired information per owner is combined with polygon data as attributes. In the absence of these polygons they are either created or the system relies purely on lists. Potentially digitise land parcels from available information but this is time consuming.			
What kind of solutions do you envisage could address this challenge?			
Providing the means for a realistic assessment of potential crop loss and associated payments for protection of the seismic operator. Extraction of field boundaries as part of the land classification thematic mapping in countries where there is no existi			
What is your view on the capability of technology to meet this need? Are you currently using EO tech? If not, why not?			
Raster products are useful but need formats where auto extraction of data is possible.			

Challenge Classification

Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	1	Climate class:	Tropical humid, Dry, Mild Mid-Latitude
Exploration:	3	Topographic class:	Agricultural
Development:	1	Seasonal variations:	Any season
Production:	1	Impact area:	Cost reduction, Environmental
Decommissioning:	1	Technology urgency:	3 - Immediately (0-2 years)

Challenge Information Requirements

Update frequency:	Snapshot

Data currently used:	High resolution imagery
Spatial resolution:	Basin
Thematic accuracy:	Not specific
Required formats:	Polygon
Timeliness (Vintage):	Within six months
Geographic extents:	Basin
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels

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