

# Hatfield-1208: Identify optimal seasonal land use to reduce permitting costs - in particular commercial and subsistence farming practices.

Identify optimal seasonal land use to reduce permitting costs - in particular commercial and subsistence farming practices

## Challenge

Challenge ID:	HCP-1208	Originator:	Onshore: Hatfield
Title:	Identify optimal seasonal land use to reduce permitting costs - in particular commercial and subsistence farming practices.		
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?			
In rural and agricultural areas a large amount of effort is spent permitting land to enable both seismic source and receiver positions to be acquired. Useful to know agricultural crop type by season and the timing and location of subsidence farming.			
What effect does this challenge have on operations?			
An understanding of the temporal nature and abundance of different crop types will help to budget permitting costs and to choose an appropriate window to reduce both impact and cost of an operation. In some areas payment is the same amount of access cost all year, but still want to reduce footprint/impacts. In several regions need to identify subsistence and shifting agriculture farming - both historical and current status of farmed locations (avoids social issues).			
Thematic information requirements:		Land use Ortho base images	
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Rely on local knowledge and scouting/reconnaissance.			
What kind of solutions do you envisage could address this challenge?			
Thematic mapping by season could identify ideal operational windows and help quantify impact, and allow accurate permit cost forecasting.			
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:	Reconnaissance
Spatial resolution:	
Thematic accuracy:	Not specific
Required formats:	Not Specific
Timeliness (Vintage):	Within six months
Geographic extents:	Basin
Existing standards:	None

## Relevant products

**Content by label**

There is no content with the specified labels