

# Hatfield-4205: Remediation monitoring related to agriculture impacts

Remediation monitoring related to agriculture impacts

## Challenge

<b>Challenge ID:</b>	HCP-4205	Originator:	Onshore: Hatfield
<b>Title:</b>	<b>Remediation monitoring related to agriculture impacts.</b>		
Theme:	ON 4.2: Environmental monitoring - Continuous monitoring of changes throughout the lifecycle		
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?			
To perform crop type and damage assessment there has to be an understanding of what is being planted to ensure correct/fair payment. For example, is the damage assessment actually worse than expected in terms of rutting of land and destruction of crops? It is difficult to assess the recovery period - is it correct or realistic? Is the compensation too high? Baseline data are required to support decisions. There is leverage in some countries (e.g. Kenya) but there are additional issues in dealing with commercial and subsistence farming. Regulated in Canada and Poland per square metre per crop and by condition.			
What effect does this challenge have on operations?			
Cost to determine correct/fair compensation and potentially incorrect assessment of impact and recovery period.			
Thematic information requirements:	Land cover Land use Terrain information		
What do you currently do to address this challenge? How is this challenge conventionally addressed?			
Assume a certain recovery period.			
What kind of solutions do you envisage could address this challenge?			
Able to assess the overview of damage from an areal and depth perspective.			
What is your view on the capability of technology to meet this need? Are you currently using EO tech? If not, why not?			
Assess established monitoring methods for crop type delineation and vegetation stress.			
<b>Challenge Classification</b>			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	0	Climate class:	Generic climate
Exploration:	3	Topographic class:	Agricultural
Development:	3	Seasonal variations:	Warmer weather focus
Production:	3	Impact area:	Cost reduction
Decommissioning:	3	Technology urgency:	3 - Immediately (0-2 years)
<b>Challenge Information Requirements</b>			
Update frequency:	Annually		

Data currently used:	Hydrological data, climate trends, agricultural data, government datasets.
Spatial resolution:	Regional
Thematic accuracy:	Not specific
Required formats:	Not Specific
Timeliness (Vintage):	Within a month
Geographic extents:	License
Existing standards:	None

## Relevant products

### Content by label

There is no content with the specified labels