

# Hatfield-4102: Land cover and land use for environmental baseline and/or impact assessment

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## Challenge

<b>Challenge ID:</b>	HCP-4102	<b>Originator:</b>	Onshore: Hatfield
<b>Title:</b>	<b>Land cover and land use for environmental baseline and/or impact assessment.</b>		
<b>Theme:</b>	ON 4.1: Environmental monitoring - Baseline historic mapping of environment and ecosystems		
<b>Consortium Lead:</b>	Hatfield	<b>Interviewed Company:</b>	Hatfield
<b>Geography:</b>	ON.REG.00 - Generic onshore		
<b>Challenge Description</b>			
What is not possible / not adequately addressed at present?			
Mapping land cover and land class classification is needed, but methods can be highly variable between different contractors. Obtaining up to date and standardized land cover information is a challenge.			
What effect does this challenge have on operations?			
Baseline land cover and land use information is required to understand project environment and to support environmental risk assessment.			
<b>Thematic information requirements:</b>	Land cover Land use		
What do you currently do to address this challenge? How is this challenge conventionally addressed?			
Combination of available satellite imagery in combination with aerial imagery.			
What kind of solutions do you envisage could address this challenge?			
Baseline information based on optical image acquisition and an ability to integrate radar data to mitigate cloud cover issues in optical data.			
What is your view on the capability of technology to meet this need? Are you currently using EO tech? If not, why not?			
Issues regarding consistency and accuracy of land cover classification and change detection, cost of data, and cloud cover constraints in certain parts of the world.			
<b>Challenge Classification</b>			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	0	Climate class:	Generic climate
Exploration:	2	Topographic class:	Not specific
Development:	4	Seasonal variations:	Any season
Production:	4	Impact area:	Environmental
Decommissioning:	2	Technology urgency:	3 - Immediately (0-2 years)
<b>Challenge Information Requirements</b>			
Update frequency:	Snapshot		
Data currently used:	In-situ monitoring and surveys		
Spatial resolution:	Regional, Basin		
Thematic accuracy:	Not specific		

Required formats:	Not Specific
Timeliness (Vintage):	Within six months
Geographic extents:	Regional
Existing standards:	None

## Relevant products

## Content by label

There is no content with the specified labels

