

# Hatfield-4108: Assess habitat quality for key species for environmental baseline and/or impact assessment

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## Challenge

Challenge ID:	HCP-4108	Originator:	Onshore: Hatfield
Title:	Assess habitat quality for key species for environmental baseline and/or impact assessment.		
Theme:	ON 4.1: Environmental monitoring - Baseline historic mapping of environment and ecosystems		
Consortium Lead:	Hatfield	Interviewed Company:	Hatfield
Geography:	ON.REG.00 - Generic onshore		
Challenge Description			
What is not possible / not adequately addressed at present?			
Flagship species may be present in an area, which increases environmental risks of a project. Areas that need to be mapped can be very large making it difficult to synthesize and understand regional habitat and species distributions. Baseline mapping costs can be very high depending on extent and detail required.			
What effect does this challenge have on operations?			
Uncertainty regarding presence of important habitat for key species. High costs related to obtaining quality data.			
Thematic information requirements:	Distribution of habitat and biodiversity		
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Habitat mapping is performed using vegetation and bio-geoclimatic information, soils, aspect and elevation data. Known species ranges are incorporated and key species may be indicated and mapped by specified lists (red or blue listed species etc.).			
What kind of solutions do you envisage could address this challenge?			
Land cover classification at a relatively coarse level could be used to screen large land areas whereas detailed habitat assessment would follow during later development phase.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Technology is sufficiently mature for coarse level habitat classification. Methods may be under-utilised at present.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	2	Climate class:	Generic climate
Exploration:	3	Topographic class:	Not specific
Development:	4	Seasonal variations:	Warmer weather focus
Production:	1	Impact area:	Environmental, Cost reduction
Decommissioning:	1	Technology urgency:	2 - Short term (2-5 years)
Challenge Information Requirements			
Update frequency:	Snapshot		

Data currently used:	High resolution imagery Aerial imagery
Spatial resolution:	Regional
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