

# Hatfield-1301: Identify sensitive habitat to minimise and manage impacts of activities

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## Challenge

Challenge ID:	HCP-1301	Originator:	Onshore: Hatfield
Title:	Identify sensitive habitat to minimise and manage impacts of activities.		
Theme:	ON 1.3: Seismic Planning - Identification of environmentally sensitive areas		
Consortium Lead:	Hatfield	Interviewed Company:	Hatfield
Geography:	ON.REG.00 - Generic onshore		
Challenge Description			
What is not possible / not adequately addressed at present?			
Habitat information is required to understand the operating environment and to predict the potential environmental impacts of activities.			
What effect does this challenge have on operations?			
Need to manage environmental risks related to development. Identification of sensitive habitat and understanding of biodiversity in an operating area is important for environmental management. Examples: Australia Canning Basin - flora is a key component; Canada - habitat for woodland caribou or grizzly bear. Need to minimize disturbance based on regulations. Require up-to information on the current habitat and disturbance.			
Thematic information requirements:	Distribution of habitat and biodiversity Land Cover Land Use		
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Baseline and environmental assessment of the field activities are required. Regulations may define the scope, or biodiversity experts will identify the valuable environmental components to be considered based on local knowledge. May require biodiversity surveys and/or wildlife monitors. Minimise disturbance based on information on existing disturbance or land use in the area.			
What kind of solutions do you envisage could address this challenge?			
Integration of ground-based biodiversity information and habitat classes to clearly define habitat. Habitat classes must provide a basis to predict biodiversity impacts and detect actual change.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Habitat interpretation needs to be compatible with ground-based biodiversity survey data. Elevation data and geology data often required to fully characterize habitats, which is difficult to acquire in remote locations and from satellite imagery.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	1	Climate class:	Tropical humid
Exploration:	3	Topographic class:	Not specific
Development:	3	Seasonal variations:	Any season
Production:	2	Impact area:	Environmental
Decommissioning:	1	Technology urgency:	3 - Immediately (0-2 years)

Challenge Information Requirements	
Update frequency:	Snapshot
Data currently used:	Ground survey, satellite imagery
Spatial resolution:	Basin
Thematic accuracy:	Not specific
Required formats:	Not Specific
Timeliness (Vintage):	Within six months
Geographic extents:	Basin
Existing standards:	World Bank / IFC Performance Standards on Environmental and Social Sustainability

## Relevant products

### Content by label

There is no content with the specified labels