

Hatfield-4104: Mapping of forest extent and quality for environmental baseline and/or impact assessment

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Challenge

Challenge ID:	HCP-4104	Originator:	Onshore: Hatfield
Title:	Mapping of forest extent and quality 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?			
Identify and assess forest structure and quality as an important input to mapping important habitat and managing potential environmental impacts.			
What effect does this challenge have on operations?			
Mapping forest quality in a consistent manner is challenging, e.g. pristine vs. degraded forests. This increases the uncertainties and risks that all important habitats have been identified and characterized.			
Thematic information requirements:	Land cover Identification of habitat and biodiversity		
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Use available satellite imagery and elevation data and conduct forest inventory and habitat surveys.			
What kind of solutions do you envisage could address this challenge?			
Integration of high-resolution optical imagery with information on forest structure or biomass.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Satellite EO cannot adequately map forest quality and be used to extract forestry parameters.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	1	Climate class:	Generic climate
Exploration:	2	Topographic class:	Forest / woodland
Development:	4	Seasonal variations:	Warmer weather focus
Production:	2	Impact area:	Environmental
Decommissioning:	2	Technology urgency:	2 - Short term (2-5 years)
Challenge Information Requirements			
Update frequency:	Snapshot		
Data currently used:	LiDAR Aerial imagery High resolution multi-spectral imagery		

Spatial resolution:	Regional, Basin
Thematic accuracy:	Not specific
Required formats:	Not Specific
Timeliness (Vintage):	Within six months
Geographic extents:	Regional
Existing standards:	Water Management Framework (Canada)

Relevant products

Content by label

There is no content with the specified labels