

Hatfield-5303: Mapping land cover trends over the project area

Mapping land cover trends over the project area

Challenge

Challenge ID:	HCP-5303	Originator:	Onshore: Hatfield
Title:	Mapping land cover trends over the project area.		
Theme:	ON 5.3: Logistics planning and operations - Facility siting, pipeline routing and roads development		
Consortium Lead:	C-CORE	Interviewed Company:	C-CORE
Geography:	ON.REG.00 - Generic onshore		
Challenge Description			
What is not possible / not adequately addressed at present?			
Land cover trends over zone of influence need to be identified and assessed to determine or gain a better understanding of the driver for the trends (e.g. natural change drivers in the project area versus anthropogenically induced).			
What effect does this challenge have on operations?			
Understand pre-construction conditions and identify trends in land cover and land use in the project area. Attributing the impacts of specific projects to the cumulative impact of operations is critical to assessing operations.			
Thematic information requirements:	Land cover Land use		
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Use EO information to determine baseline conditions, acquire or generate existing land use / land cover maps. Assess previous permitted activity reports.			
What kind of solutions do you envisage could address this challenge?			
Better integration of land cover trends with climatic data and models for future status.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Challenges associated with summer season in northern regions and availability of archive.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	3	Climate class:	Generic climate
Exploration:	1	Topographic class:	Not specific
Development:	3	Seasonal variations:	Any season
Production:	2	Impact area:	Environmental
Decommissioning:	3	Technology urgency:	3 - Immediately (0-2 years)
Challenge Information Requirements			
Update frequency:	Snapshot to annually		
Data currently used:	Optical imagery, aerial imagery		
Spatial resolution:	License		
Thematic accuracy:	Not specific		
Required formats:	Not specific		

Timeliness (Vintage):	Reference data
Geographic extents:	Regional
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels