

Hatfield-4204: Monitoring local communities and land use in the project area

Monitoring local communities and land use in the project area

Challenge

Challenge ID:	HCP-4204	Originator:	Onshore: Hatfield
Title:	Monitoring local communities and land use in the project area.		
Theme:	ON 4.2: Environmental monitoring - Continuous monitoring of changes throughout the lifecycle		
Consortium Lead:	Hatfield	Interviewed Company:	Hatfield
Geography:	ON.REG.00 - Generic onshore		
Challenge Description			
What is not possible / not adequately addressed at present?			
Assess changes to land use and settlement in project area as development proceeds. Track potential encroachment into project area adjacent to buildings and assets.			
What effect does this challenge have on operations?			
Monitoring land use is important for environmental and social risk management. Knowledge of land use changes can support community relationship management. Information needed to avoid conflict.			
Thematic information requirements:	Land cover Land use Distribution and status of infrastructure Ortho base images		
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Ground-based surveys, fly-overs, high resolution satellite images.			
What kind of solutions do you envisage could address this challenge?			
Land use change detection from medium to high resolution optical imagery.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Methods are well developed and are suitable for this challenge. Systematic monitoring methods are desirable.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	1	Climate class:	Generic climate
Exploration:	3	Topographic class:	Urban
Development:	3	Seasonal variations:	Any season
Production:	4	Impact area:	Environmental
Decommissioning:	3	Technology urgency:	3 - Immediately (0-2 years)
Challenge Information Requirements			
Update frequency:	Annually to quarterly		
Data currently used:	Field data, government land use data, optical imagery.		
Spatial resolution:	Regional		
Thematic accuracy:	Not specific		
Required formats:	Not Specific		

Timeliness (Vintage):	Within a month
Geographic extents:	Regional
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels