

Hatfield-4306: Assess and manage forest fire risk to facilities and infrastructure

Assess and manage forest fire risk to facilities and infrastructure

Challenge

Challenge ID:	HCP-4306	Originator:	Onshore: Hatfield
Title:	Assess and manage forest fire risk to facilities and infrastructure.		
Theme:	ON 4.3: Environmental monitoring - Natural Hazard Risk Analysis		
Consortium Lead:	Hatfield	Interviewed Company:	Hatfield
Geography:	ON.REG.03 - Canada		
Challenge Description			
What is not possible / not adequately addressed at present?			
Forest fire risk assessment based on seasonal conditions and fuel loads. Management of fire breaks. Evacuation routes planning. Management of brush thinning, removal of woody debris. Monitoring the location of active fires and evaluation of risks.			
What effect does this challenge have on operations?			
Forest fire risk is an operational health and safety issue. Reduction of risks can improve safety and potential economic losses.			
Thematic information requirements:	Land cover Land use		
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Typically rely on government information for up to date information. Evaluation of fire risk can be based on forest structure as well as surface vegetation composition.			
What kind of solutions do you envisage could address this challenge?			
Ongoing monitoring of risks and fire events during the forest fire season.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Operational fire risk monitoring in some areas. Other regions are at various stages in developing fire risk models - coarse scales tend to be the norm. Need EO to better support fire monitoring.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	0	Climate class:	Generic climate
Exploration:	4	Topographic class:	Forest / woodland, Grassland
Development:	4	Seasonal variations:	Dry season focus
Production:	4	Impact area:	Health and Safety
Decommissioning:	2	Technology urgency:	3 - Immediately (0-2 years)
Challenge Information Requirements			
Update frequency:	Daily		
Data currently used:	Field assessment, aerial imagery and status reports.		
Spatial resolution:	Regional		
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