Hatfield-4305: Monitoring air quality related to seasonal fires

Monitoring air quality related to seasonal fires

Challenge

Challenge ID:	HCP-4305	Originator:	Onshore: Hatfield
Title:	**Monitoring air quality related to seasonal fires.**		
Theme:	ON 4.3: Environmental monitoring - Natural Hazard Risk Analysis		
Consortium Lead:	RPS Group	Interviewed Company:	RPS Group
Geography:	ON.REG.00 - Generic onshore		

Challenge Description
What is not possible / not adequately addressed at present?
Crew safety is paramount and in some case need to monitor air quality in operating region if fires are present in the region.
What effect does this challenge have on operations?
Air quality is highly dynamic and not a common occurrence, but is an issue in locations in Canada and Indonesia.

Thematic information requirements:	Air quality and emissions

What do you currently do to address this challenge? How is this challenge conventionally addressed?
Typically rely on government monitoring (e.g. NOAA) for up to date information and trend analysis.
What kind of solutions do you envisage could address this challenge?
Maps of forest fires and particulate concentrations.
What is your view on the capability of technology to meet this need? Are you currently using EO tech? If not, why not?
None

Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	0	Climate class:	Generic climate
Exploration:	3	Topographic class:	Not specific
Development:	3	Seasonal variations:	Dry season focus
Production:	3	Impact area:	Operational cost reduction
Decommissioning:	0	Technology urgency:	2 - Short term (2-5 years)

Challenge Information Requirements	
Update frequency:	Daily
Data currently used:	Coarse scale continental models
Spatial resolution:	Regional, Basin
Thematic accuracy:	10 m
Required formats:	Not specific
Timeliness (Vintage):	Daily
Geographic extents:	Regional
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels