

OTM-026: Identifying potential hydrocarbon seepage

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Challenge

Challenge ID	OTM:026				
1 Title	Identifying potential hydrocarbon seepage				
2 Theme ID	ON 2.3: Surface Geology Mapping - Lithological discrimination				
3 Originator of Challenge	Onshore: OTM				
4 Challenge Reviewer / initiator	Exxon, Chevron				
General description		Overview of Challenge			
5 What is the nature of the challenge? (What is not adequately addressed at present?)	Identifying hydrocarbon seepages or anomalies in characteristics such as in mineralogy and vegetation may indicate that the presence of a reservoir				
6 Thematic information requirements	11. Determine lithology, mineralogy and structural properties of the near surface, 14. Obtain detailed imagery of the surface,				
7 Nature of the challenge - What effect does this challenge have on operations?	Being able to identify potential hydrocarbon leaks would allow us to more efficiently target these areas for exploratory work, which inevitably (you would hope) would increase our exploration success.				
8 What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	On the ground observation, influenced from geological surveys.				
9 What kind of solution do you envisage could address this challenge?					
10 What is your view on the capability of technology to meet this need? – are you currently using EO tech? If not, why not?					
Challenge classification					
11 Lifecycle stage	Pre license	Exp.	Dev.	Prod.	Decom.
Score from impact quantification [1]	4	3	1	0	0
12 Climate classification	NOT CLIMATE SPECIFIC				
13 Geographic context/restrictions	Generic onshore (Unspecified)				
14 Topographic classification / Offshore classification	Generic onshore (Unspecified)				
15 Seasonal variations	Any season				
16 Impact Area	Environmental				
17 Technology Urgency (How quickly does the user need the solution)	Immediately (0-2 years)				
Information requirements					
18 Update frequency					
19 Data Currently used					
20 Spatial resolution					
21 Thematic accuracy					
22 Example formats					
23 Timeliness	Within a month				
24 Geographic Extent	regional interest				
25 Existing standards					

[1] Impact quantification scores: 4 – Critical/ enabling; 3 – Significant/ competitive advantage; 2 – Important but non-essential; 1 – Nice to have; 0 – No impact, need satisfied with existing technology

Relevant products

Content by label



There is no content with the specified labels

