

OTM-017: Identification of seasonal environment changes e.g. migration patterns

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Challenge

Challenge ID	OTM:017				
1 Title	Identification of seasonal environment changes e.g. migration patterns				
2 Theme ID	ON 4.2: Environmental monitoring - Continuous monitoring of changes throughout the lifecycle				
3 Originator of Challenge	Onshore: OTM				
4 Challenge Reviewer / initiator	Statoil, PetroSA, Shell, Eni, Sasol, Exxon, Tullow, Petronas, Chevron				
General description		Overview of Challenge			
5 What is the nature of the challenge? (What is not adequately addressed at present?)	Many frontier regions are home to internationally protected wildlife for some, or all of the year. It is important that we are aware of this so that the impact of our E&P activity on the environment can be minimised. Therefore we must be able to identify any seasonal environmental changes such as the migration patterns of protected species.				
6 Thematic information requirements	3. Obtain detailed vegetation information, 4. Obtain detailed land-use information, 6. Identify inland water bodies and determine water quality, 7. Determine air quality, 10. Fauna and presence and patterns,				
7 Nature of the challenge - What effect does this challenge have on operations?	Failing to prepare for and manage the influx of protect species to our operational area would be ignoring our responsibility to the environment. Further to this, with regard to the impact on operations, could lead to a forced shut down and increased safe				
8 What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	Ground patrols can be deployed as a deterrent but these are costly and not full-proof.				
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]	1	2	2	2	2
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	Weekly				
19 Data Currently used					
20 Spatial resolution					
21 Thematic accuracy					
22 Example formats					
23 Timeliness	Within a day				
24 Geographic Extent	district area				
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