OTM-030: Ecosystem valuation of potential site

Ecosystem valuation of potential site

Challenge

	Challenge ID	OTM:030				
1	Title	Ecosystem valuation of potential site				
2	Theme ID	ON 4.1: Environmental monitoring - Baseline historic mapping of environment and ecosystems				
3	Originator of Challenge	Onshore: OTM				
4	Challenge Reviewer / initiator	PEMEX, Statoil, Eni, Sasol, Tullow, Petronas, Chevron				
	General description	Overview of Challenge				
5	What is the nature of the challenge? (What is not adequately addressed at present?)	During the prelicensing phase it is important that we have an understanding of the ecosystem value of possible development sites. At this stage, the information does not have to be extremely detailed because we are looking over large areas at a high level.				
6	Thematic information requirements	3. Obtain detailed vegetation information, 4. Obtain detailed land-use information, 6. Identify inland water bodies and determine water quality, 10. Fauna and presence and patterns,				
7	Nature of the challenge - What effect does this challenge have on operations?	Having this information allows us to develop a monetary value for the cost of ecosystem loss (as a result of operations) and a timescale for recovery following decommissioning. It is helpful if we can get this information quickly for large and remote a				
8	What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	On-the-ground surveys				
9	What kind of solution do you envisage could address this challenge?	Medium resolution land cover products based on EO data				
10	What is your view on the capability of technology to meet this need? – are you currently using EO tech? If not, why not?	EO could be a useful complimentary technology e.g. through estimation of biomass (leaf area index, etc.),				
	Challenge classification					
11	Lifecycle stage	Pre license	Exp.	Dev.	Prod.	Decom.
	Score from impact quantification [1]	4	2	0	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	depending on sensor and application				
19	Data Currently used					
20	Spatial resolution					
21	Thematic accuracy	80-90%				
22	Example formats	Standardized geo-spatial formats (e.g. shapefile, geotiff or KML)				
23	Timeliness					
24	Geographic Extent					
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