OTM-045: Identifying soft ground for seismic vehicles

Identifying soft ground for seismic vehicles

Challenge

	Challenge ID	OTM:045				
1	Title	Identifying soft ground for seismic vehicles				
2	Theme ID	ON 1.2: Seismic Planning - Identification of adverse terrain for trafficability				
3	Originator of Challenge	Onshore: OTM				
4	Challenge Reviewer / initiator	PEMEX, Statoil, Exxon, Tullow, Petronas				
	General description	Overview of Challenge				
5	What is the nature of the challenge? (What is not adequately addressed at present?)	We need to identify soft ground to avoid seismic vehicles getting stuck				
6	Thematic information requirements	1. Obtain detailed topographic information, 2. Obtain detailed terrain characterisation,				
7	Nature of the challenge - What effect does this challenge have on operations?	Soft ground not only reduces the accuracy of our seismic output, but also delays operations by slowing the vehicles.				
8	What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	Online imagery, ground survey teams				
9	What kind of solution do you envisage could address this challenge?	As well as information relating to terrain characterisation, analysing topographical data can also be useful since soft ground normally occurs in surface depressions.				
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]	2	3	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	Operational cost reduction				
17	Technology Urgency (How quickly does the user need the solution)	Immediately (0-2 years)				
	Information requirements					
18	Update frequency	Specific stage in lifecycle				
19	Data Currently used					
20	Spatial resolution					
21	Thematic accuracy					
22	Example formats					
23	Timeliness	Reference data - timeliness not important				
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