

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

