OTM-028: Land use mapping to detect the social impact of O&G developments

Land use mapping to detect the social impact of O&G developments

Challenge

	Challenge ID	OTM:028				
1	Title	Land use mapping to detect the social impact of O&G developments				
2	Theme ID	ON 4.2: Environmental monitoring - Continuous monitoring of changes throughout the lifecycle				
3	Originator of Challenge	Onshore: OTN	М			
4	Challenge Reviewer / initiator	PEMEX, Statoil, Shell, Sasol, Tullow, Petronas				
	General description	Overview of Challenge				
5	What is the nature of the challenge? (What is not adequately addressed at present?)	O&G operations can have both a positive and negative impact on the local populous. The social aspect of this development can be difficult to track or measure. This may include changes in land use, population density, the displacement of communities/ tribes, etc.				
6	Thematic information requirements	4. Obtain detailed land-use information, 14. Obtain detailed imagery of the surface,				
7	Nature of the challenge - What effect does this challenge have on operations?	Monitoring the social implications of our operations allows us to highlight areas of success and improvement. We hope this will allow us to access greater reserves as we can more clearly articulate the benefits of our operations to future licence holders				
8	What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	Looking at conference of the c			aps. However	, base-line maps are
9	What kind of solution do you envisage could address this challenge?	Very high to medium resolution EO data to derive land use information.				
		Resolution de	pends on cove	ered area and si	ze of analysis of	bjective
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	1	2	3	1
12	Score from impact quantification [1] Climate classification	1 NOT CLIMA			3	1
12 13		NOT CLIMA	TE SPECIFIC		3	1
	Climate classification		TE SPECIFIC	ed)	3	1
13	Climate classification Geographic context/restrictions	NOT CLIMA'	TE SPECIFIC	ed)	3	1
13 14	Climate classification Geographic context/restrictions Topographic classification / Offshore classification	NOT CLIMA' Generic onsho	TE SPECIFIC ore (Unspecifi ore (Unspecifi	ed)	3	1
13 14 15	Climate classification Geographic context/restrictions Topographic classification / Offshore classification Seasonal variations	NOT CLIMA' Generic onsho Generic onsho Any season	TE SPECIFIC ore (Unspecifi ore (Unspecifi	ed)	3	1
13 14 15 16	Climate classification Geographic context/restrictions Topographic classification / Offshore classification Seasonal variations Impact Area	NOT CLIMA' Generic onsho Generic onsho Any season Social impact	TE SPECIFIC ore (Unspecifi ore (Unspecifi	ed)	3	1
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^[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