OTM-035: Assessing the social impact of construction work

Assessing the social impact of construction work

Challenge

	Challenge ID	OTM:035				
1	Title	Assessing the social impact of construction work				
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	PEMEX, Statoil, Shell, Chevron				
	General description	Overview of Challenge				
5	What is the nature of the challenge? (What is not adequately addressed at present?)	Monitoring the social impact of O&G development e.g. displacement of communities/ tribes, changes in land use or impacts caused by construction activity				
6	Thematic information requirements	4. Obtain detailed land-use information,				
7	Nature of the challenge - What effect does this challenge have on operations?	The construction site and its impact on the environment can be relatively intense during the early E&P phases, particularly when the site is being constructed. This may impacts both the immediate, local society in or distant societies such as those along				
8	What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	This manly done by field surveys which is costly, labour intensive and because it's "point-based", the context of the larger ecosystem can be misunderstood.				
9	What kind of solution do you envisage could address this challenge?	EO-based products can provide consistent, timely information on social impacts of O&G development. High to very high resolution land cover products based on EO data would be useful for analysis of areas in the close proximity to particular assets. For la				
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 providing information on population density, building inventory, exposure mapping, settlement mapping and site location				
	Challenge classification					
11	Lifecycle stage	Pre license	Exp.	Dev.	Prod.	Decom.
	Score from impact quantification [1]	4	4	4	4	4
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	Social impact				
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	within six months				
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