OTM-037: Identification of road or track for logistics planning

Identification of road or track for logistics planning

Challenge

	Challenge ID	OTM:037				
1	Title	Identification of road or track for logistics planning				
2	Theme ID	ON 5.1: Logistics planning and operations - Baseline mapping of terrain and infrastructure				
3	Originator of Challenge	Onshore: OTM				
4	Challenge Reviewer / initiator	PEMEX, Ramani, Shell, Eni, Exxon				
	General description	Overview of Challenge				
5	What is the nature of the challenge? (What is not adequately addressed at present?)	Planning the logistics arrangement to get plant and equipment such as rigs, drill pipe, topside handling facilities to remote locations is challenging. Identifying road networks suitable for HGVs and estimating travel time for operations is difficult and often inaccurate.				
6	Thematic information requirements	4. Obtain detailed land-use information, 5. Identify location and condition of transport infrastructure,				
7	Nature of the challenge - What effect does this challenge have on operations?	Planning can be inefficient and overly time consuming. Planning can be inefficient and overly tie-consuming. Selected routes could be inappropriate for certain vehicle types. Route choice may also affect convoy speed and thus have a knock on delay of s				
8	What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	Crude satellite imagery data and ground truthing				
9	What kind of solution do you envisage could address this challenge?	Very high to high resolution EO data to derive land use information. Resolution depends on covered area and size of analysis objective.				
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				
	Challenge classification					
11	Lifecycle stage	Pre license	Exp.	Dev.	Prod.	Decom.
	Score from impact quantification [1]	1	2	4	1	2
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	Reduced capital expenditure				
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	Reference data - timeliness not important				
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