

OTM-079: Identification of archaeological or burial sites

Identification of archaeological or burial sites

Challenge

Challenge ID	OTM:079				
1 Title	Identification of archaeological or burial sites				
2 Theme ID	ON 5.3: Logistics planning and operations - Facility siting, pipeline routing and roads development				
3 Originator of Challenge	Onshore: OTM				
4 Challenge Reviewer / initiator	Petronas				
General description		Overview of Challenge			
5 What is the nature of the challenge? (What is not adequately addressed at present?)	In areas that are unfamiliar with us it is important that we recognise land parcels that our activity must avoid. This can range from burial sites to temples and religious grounds.				
6 Thematic information requirements	2. Obtain detailed terrain characterisation, 4. Obtain detailed land-use information, 9. Obtain detailed imagery of assets,				
7 Nature of the challenge - What effect does this challenge have on operations?	These areas must be accounted for in logistics planning, seismic surveying, site selection and development				
8 What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	Existing mapping, although this often lacks sufficient detail				
9 What kind of solution do you envisage could address this challenge?	Radar is sensitive to properties like slight differences in soil density and water content. Changes in soil moisture and in vegetation growth can also be detected by radar. These factors are influenced by underground structures and can be used to infer hi				
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]	2	4	3	2	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	HSE				
17 Technology Urgency (How quickly does the user need the solution)	Immediately (0-2 years)				
Information requirements					
18 Update frequency					
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

