

OTM-041: Vegetation encroachment on O&G asset

Vegetation encroachment on O&G asset

Challenge

	Challenge ID	OTM:041				
1	Title	Vegetation encroachment on O&G assets				
2	Theme ID	ON 5.4: Logistics planning and operations - Monitoring of assets				
3	Originator of Challenge	Onshore: OTM				
4	Challenge Reviewer / initiator	Ramani				
General description		Overview of Challenge				
5	What is the nature of the challenge? (What is not adequately addressed at present?)	Vegetation encroachment on assets can reduce access and/or damage the integrity of structures				
6	Thematic information requirements	3. Obtain detailed vegetation information, 4. Obtain detailed land-use information,				
7	Nature of the challenge - What effect does this challenge have on operations?	Remedial works can be required to regain access or operation of the asset. This can be time consuming and costly. One way of managing this could be to monitor our assets using aerial imagery and target the use of our ground staff to mitigate against thi				
8	What do you currently do to address this challenge?/ How is this challenge conventionally addressed?	Updated mapping, if it is produced. We also rely on asset owners to keep records of changes around the assets themselves. However, for smaller assets this detail is often lost.				
9	What kind of solution do you envisage could address this challenge?	Very high to medium resolution EO data to map changes of the environment and ecosystem.				
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]	0	0	1	4	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	operational cost reduction				
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	reservoir footprint				
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