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| --- | --- | --- | --- | --- | --- | --- |
|  | Challenge ID | OTM:075 | | | | |
| 1 | Title | Creating basemaps in politically challenging regions | | | | |
| 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 | DFID | | | | |
|  | General description | Overview of Challenge | | | | |
| 5 | What is the nature of the challenge? (What is not adequately addressed at present?) | If you can't get government "on-side", then obtaining basemaps of an area can be very complicated, especially when aerial surveys are refused etc… | | | | |
| 6 | Thematic information requirements | 1. Obtain detailed topographic information, 2. Obtain detailed terrain characterisation, 3. Obtain detailed vegetation information, 5. Identify location and condition of transport infrastructure, 14. Obtain detailed imagery of the surface, | | | | |
| 7 | Nature of the challenge - What effect does this challenge have on operations? | Delay in developing / exploration activity | | | | |
| 8 | What do you currently do to address this challenge?/ How is this challenge conventionally addressed? | Aerial surveys, but these are often difficult to deploy if political will is not there. | | | | |
| 9 | What kind of solution do you envisage could address this challenge? | Imagery which can navigate around local bureaucracy would be useful | | | | |
| 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]](#footnote-1) | 2 | 2 | 0 | 0 | 0 |
| 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 | Development costs | | | | |
| 17 | Technology Urgency  (How quickly does the user need the solution) | Immediately (0-2 years) | | | | |
|  | Information requirements |  | | | | |
| 18 | Update frequency | Not important | | | | |
| 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* [↑](#footnote-ref-1)