

Hatfield-5405: Monitor potential pipeline corridor encroachment by communities

Monitor potential pipeline corridor encroachment by communities

Challenge

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| Challenge ID: | HCP-5405 | Originator: | Onshore: Hatfield |
| Title: | Monitor potential pipeline corridor encroachment by communities. | | |
| Theme: | ON 5.4: Logistics planning and operations - Monitoring of assets | | |
| Consortium Lead: | Hatfield | Interviewed Company: | Hatfield |
| Geography: | ON.REG.00 - Generic onshore | | |
| Challenge Description | | | |
| What is not possible / not adequately addressed at present? | | | |
| Need for improved detection and monitoring of encroachment over time by communities that are proximal to pipeline infrastructure. | | | |
| What effect does this challenge have on operations? | | | |
| Potentially hazardous to crews and community due to operations. | | | |
| Thematic information requirements: | Ortho base images Distribution and status of infrastructure Distribution and status of assets Land use | | |
| What do you currently do to address this challenge? | | | |
| How is this challenge conventionally addressed? | | | |
| Carry out field surveys and aerial surveys. | | | |
| What kind of solutions do you envisage could address this challenge? | | | |
| Use UAVs to monitor. | | | |
| What is your view on the capability of technology to meet this need? | | | |
| Are you currently using EO tech? If not, why not? | | | |
| Already feasible and cost-effective with moderate resolution optical imagery (5 m) but it is important to have access to archives to achieve a baseline. | | | |
| Challenge Classification | | | |
| Impact on Lifecycle (0=none, 4=high): | | Climate / Topography / Urgency: | |
| Pre-license: | 3 | Climate class: | Generic climate |
| Exploration: | 0 | Topographic class: | Not specific |
| Development: | 3 | Seasonal variations: | Any season |
| Production: | 4 | Impact area: | Environmental, HSE, cost reduction |
| Decommissioning: | 2 | Technology urgency: | 2 - Short term (2-5 years) |
| Challenge Information Requirements | | | |
| Update frequency: | Monthly to weekly | | |
| Data currently used: | Aerial imagery, field assessments | | |
| Spatial resolution: | License | | |
| Thematic accuracy: | Higher accuracy for exposed pipelines vs vegetation overgrowth for example | | |
| Required formats: | Not specific | | |
| Timeliness (Vintage): | Monthly | | |

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| Geographic extents: | License |
| Existing standards: | None |

Relevant products

Content by label

There is no content with the specified labels