

Hatfield-4202: Map coastal habitat and built environment /settlement sensitivity to strengthen tactical oil spill response and preparedness

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Challenge

Challenge ID:	HCP-4202	Originator:	Onshore: Hatfield
Title:	Map coastal habitat and built environment/settlement sensitivity to strengthen tactical oil spill response and preparedness.		
Theme:	ON 4.2: Environmental monitoring - Continuous monitoring of changes throughout the lifecycle		
Consortium Lead:	Hatfield	Interviewed Company:	Hatfield
Geography:	ON.REG.00 - Generic onshore		
Challenge Description			
What is not possible / not adequately addressed at present?			
Need inventory of coastal habitat and existing infrastructure to support preparedness and oil spill mitigation.			
What effect does this challenge have on operations?			
Maintaining up-to-date and accurate environmental sensitivity information to support emergency response and management activities. Coastal zone is highly dynamic and coastal features and patterns of land use and settlement can change rapidly.			
Thematic information requirements:	Land cover Land use Distribution of habitat and biodiversity Terrain information Topographic information		
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Use existing topographic data and supplement with satellite image interpretation and field surveys. Follow applicable mapping standards (global or national).			
What kind of solutions do you envisage could address this challenge?			
Application of high-resolution seasonal optical imagery analysis/interpretation.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Methods are well developed. Systematic analysis is perceived to be costly.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	1	Climate class:	Generic climate
Exploration:	1	Topographic class:	Wetland
Development:	3	Seasonal variations:	Warmer weather focus
Production:	4	Impact area:	Environmental, Cost reduction
Decommissioning:	3	Technology urgency:	3 - Immediately (0-2 years)

Challenge Information Requirements	
Update frequency:	Annually
Data currently used:	LiDAR Aerial imagery High resolution optical imagery
Spatial resolution:	Regional
Thematic accuracy:	Not specific
Required formats:	Not Specific
Timeliness (Vintage):	Within six months
Geographic extents:	Regional
Existing standards:	None

Relevant products

- [Product Sheet: Critical habitat mapping](#)
- [Product Sheet: Elevation](#)
- [Product Sheet: Land Cover Characterisation](#)
- [Product Sheet: Land Use](#)
- [Product Sheet: Slope](#)