

# Hatfield-4307: Coastal elevation data for tsunami risk analysis

## Coastal elevation data for tsunami risk analysis

### Challenge

Challenge ID:	HCP-4307	Originator:	Onshore: Hatfield
Title:	Coastal elevation data for tsunami risk analysis.		
Theme:	ON 4.3: Environmental monitoring - Natural Hazard Risk Analysis		
Consortium Lead:	Hatfield	Interviewed Company:	Hatfield
Geography:	ON.REG.05 - Indonesia, Malaysia, Brunei		
Challenge Description			
What is not possible / not adequately addressed at present?			
Potentially hazardous tsunami zones, evacuation routes , and safe havens need to be mapped and identified for crew safety.			
What effect does this challenge have on operations?			
Important safety issue for crews operating in coastal / tsunami-prone areas to manage and mitigate HSE risks.			
Thematic information requirements:	Land use Topographic information		
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Government tsunami risk mapping is used, if available. If not, points of high ground are identified as safe havens.			
What kind of solutions do you envisage could address this challenge?			
Regional tsunami risk maps.			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Currently feasible to model tsunamis with high-resolution elevation (onshore and offshore) models but there is a lack of capability using EO technology for early detection/warning.			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	0	Climate class:	Generic climate
Exploration:	4	Topographic class:	Coastal
Development:	4	Seasonal variations:	Any season
Production:	4	Impact area:	Health and Safety
Decommissioning:	0	Technology urgency:	3 - Immediately (0-2 years)
Challenge Information Requirements			
Update frequency:	Snapshot		
Data currently used:	LiDAR, optical imagery, aerial imagery, elevation models		
Spatial resolution:	Regional		
Thematic accuracy:	< 1m		
Required formats:	Not specific		
Timeliness (Vintage):	Reference data		
Geographic extents:	Regional		
Existing standards:	None		

# Relevant products

**Content by label**

There is no content with the specified labels