

# Hatfield-5101: Obtaining baseline land use for pipeline route planning

## Obtaining baseline land use for pipeline route planning

### Challenge

Challenge ID:	HCP-5101	Originator:	Onshore: Hatfield
Title:	Obtaining baseline land use for pipeline route planning.		
Theme:	ON 5.1: Logistics planning and operations - Baseline mapping of terrain and infrastructure		
Consortium Lead:	Arup	Interviewed Company:	Arup
Geography:	ON.REG.00 - Generic onshore		
Challenge Description			
What is not possible / not adequately addressed at present?			
Need detailed baseline land cover and land use maps to support pipeline route planning - extensive linear corridors have specific data requirements.			
What effect does this challenge have on operations?			
Reduce planning costs by determining optimal or most favourable pipeline route alignment based on land use constraint analysis.			
Thematic information requirements:	Land use Land cover		
What do you currently do to address this challenge?			
How is this challenge conventionally addressed?			
Aerial surveys and satellite imagery.			
What kind of solutions do you envisage could address this challenge?			
High resolution optical images			
What is your view on the capability of technology to meet this need?			
Are you currently using EO tech? If not, why not?			
Mature technology with lots of choice of sensors			
Challenge Classification			
Impact on Lifecycle (0=none, 4=high):		Climate / Topography / Urgency:	
Pre-license:	1	Climate class:	Generic climate
Exploration:	2	Topographic class:	Not specific
Development:	4	Seasonal variations:	Any season
Production:	1	Impact area:	Environmental
Decommissioning:	2	Technology urgency:	3 - Immediately (0-2 years)
Challenge Information Requirements			
Update frequency:	Snapshot		
Data currently used:	Landsat, ASTER, GoogleEarth, RapidEye, aerial photography		
Spatial resolution:	Regional		
Thematic accuracy:	Not specific		
Required formats:	Not specific		
Timeliness (Vintage):	Within six months		
Geographic extents:	License		

Existing standards:	None
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## Relevant products

### Content by label

There is no content with the specified labels