Hatfield-2101: Lineament mapping

Lineament mapping

Challenge

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Challenge ID:	HCP-2101	1	Originator:	Onshore:	Hatfield		
Title:	Lineament mapping.						
Theme:	ON 2.1: Surface Geology Mapping - Mapping geological features						
Consortium Lead:	Arup		Interviewed Company:	Arup			
Geography:	ON.REG.	00 - Generic o	nshore				
Challenge Description							
What is not poss							
quantitative data including identification	(stereo-nets cation of ac). Required for tive faults.	exploration, fiel		nuities), presence, orientation, length, ent and seismic hazard appraisals		
What effect doe							
Information requi	red to reduc	ce uncertainty,	improve decision	n making fo	or exploration and field development.		
Thematic information requirements:			Topographic information Lithology, structural geology, surficial geology.				
What do you currently do to address this challenge?							
How is this challenge conventionally addressed?							
Approach varies by geographic area and density of vegetation cover. Geological and topographic mapping. DEM analysis (SRTM, ASTER, High Res stereo satellite, LiDAR) Air photo interpretation. Geophysics. Ground investigation and boreholes.							
What kind of solutions do you envisage could address this challenge?							
Radar DEM High Res stereo I Thermal Multispectral and		ral					
What is your vie	ew on the o	capability of t	echnology to m	eet this ne	ed?		
Are you current							
					increased spatial and spectral resolution		
(e.g. EnMAP) and		ssing techniqu	es will be of ben	efit.			
Challenge Clas							
Impact on Lifecycle (0=none, 4=high):			Climate / Topography / Urgency:				
Pre-license:		1	Climate class:		Generic climate		
Exploration:		3	Topographic class:		Not specific		

_	Topograpino crass.					
2	Seasonal variations:	Any season				
1	Impact area:					
0	Technology urgency:	3 - Immediately (0-2 years)				
Challenge Information Requirements						
Snapshot						
Air photo interpretation DEM analysis (ASTER, SRTM, High res optical DEM) Multispectral Thermal						
al resolution: Regional to License						
	1 0 Requirements Snapshot Air photo into DEM analysi Multispectral Thermal	2 Seasonal variations: 1 Impact area: 0 Technology urgency: Requirements Snapshot Air photo interpretation DEM analysis (ASTER, SRTM, High res Multispectral Thermal				

Thematic accuracy:	Not specific
Required formats:	Not Specific
Timeliness (Vintage):	Reference data
Geographic extents:	Regional to License
Existing standards:	None

Relevant products

Content by label

There is no content with the specified labels