Hatfield-4302: Floodplain mapping and understanding flood extent and flood frequency.

Floodplain mapping and understanding flood extent and flood frequency

Challenge

Challenge Information Requirements

Snapshot

Update frequency:

Challenge ID:	HCP-4302		Originator:	Onshore:	Hatfield	
Title:	Floodplain mapping and understanding flood extent and flood frequency					
Theme:	ON 4.3: Environmental monitoring - Natural Hazard Risk Analysis					
Consortium Lead:	Hatfield		Interviewed Company:	Hatfield		
Geography:	ON.REG.00 - Generic onshore					
Challenge Description						
What is not pos	sible / not a	dequately ad	dressed at prese	ent?		
Characterisation and operating risk obtain elevation of	of floodplain ks. Historical data or observ	s, flooding pat flood frequen e flooding us	terns and flood l cy and extent ne ing satellite imag	nazard is ne eds to be in	cessary to avoid or mitigate construction acorporated. It can be challenging to sted areas.	
What effect doe				. 1 1	14 1 6 1 1 1	
					alth and safety risks. Floods can cause	
significant damage to infrastructure with associated economic impacts. Thematic information Terrain information						
requirements:		Land use				
requirements.		Land cover				
		Distribution and status of infrastructure				
		Distribution and status of assets				
		Water quan				
		Topographic information				
What do you currently do to address this challenge?						
How is this cha						
					nd model water extent in lowland	
					ation can be mapped to define recent	
active channels in drier areas to antcipate areas that may be influenced by flash flood or freshet events. What kind of solutions do you envisage could address this challenge?						
					l images. Analysis of historical floods.	
Accurate delinear				i and optica	il illiages. Alialysis of historical floods.	
What is your vi				eet this ne	ed?	
			••	ect tills lic	cu:	
· · · · · · · · · · · · · · · · · · ·		teen. If not,	, why not:			
Are you current		rchive images	and there are ch	allenges to	man flooding that occurs below the	
Are you current Lack of available	historical / a	_		_	map flooding that occurs below the	
Are you current Lack of available	historical / a gical modelli	_		_	map flooding that occurs below the nost reliable approach.	
Are you current Lack of available canopy. Hydrolo Challenge Clas Impact on I	historical / a gical modelli	ng and use of		mains the n	1 0	
Are you current Lack of available canopy. Hydrolo Challenge Clas Impact on I	historical / a gical modelling ssification Lifecycle (0-	ng and use of		mains the n	nost reliable approach.	
Are you current Lack of available canopy. Hydrolo Challenge Clas Impact on I Pre-license:	historical / a gical modelling ssification Lifecycle (0-	ng and use of enone,	elevation data re	Climate /	nost reliable approach. Topography / Urgency:	
Are you current Lack of available canopy. Hydrolo Challenge Clas Impact on I Pre-license: Exploration:	historical / a gical modelling ssification Lifecycle (0-	enone,	elevation data re Climate class: Topographic c	Climate /	Topography / Urgency: Generic climate Not specific	
Are you current Lack of available canopy. Hydrolo Challenge Clas Impact on I Pre-license:	historical / a gical modelling ssification Lifecycle (0-	ng and use of enone,	elevation data re	Climate /	Topography / Urgency: Generic climate	

Data currently used:	Local knowledge, field data (including flow monitoring data), optical imagery, radar imagery				
Spatial resolution:	Regional				
Thematic accuracy:	Not specific				
Required formats:	Not specific				
Timeliness (Vintage):	Reference data				
Geographic extents:	Basin, License				
Existing standards:	None				

Relevant products

Content by label

There is no content with the specified labels