

# CLS-4.2: Pollution monitoring

## Pollution monitoring

### Challenge

#### CLS\_OFF.4.2 : Pollution monitoring

1	Challenge ID	CLS_OFF.4.2				
2	Title	Pollution monitoring				
3	Originator of Challenge	SHELL/Statoil				
General description						
4	What data/products do you currently use ?	<ul style="list-style-type: none"> <li>• Oil spill drift model ready for deployment: provided by MetNo</li> <li>• Oil spill drift simulations provided by MetNo</li> <li>• Metocean data for the drift model and oil weathering process</li> <li>• Aerial photographs and SAR images to visualize the pollution</li> </ul>				
5	When do you use this kind of dataset?	In case of a leak, the drift of the oil spill need to be simulated and estimated. Satellite images can also be used to note the pollution.				
6	What are your actual limitations and do you have a work around?	n/a				
7	Needs and expectations on EO data	<ul style="list-style-type: none"> <li>• Synoptic data, more data at low latitudes</li> <li>• Better coordination between satellite missions for a better coverage</li> <li>• Oil spill classification &amp; thickness</li> </ul> (EnviSAT was very usefull, good expectations from the Sentinels)				
Challenge classification						
8	Lifecycle stage	<i>Pre license</i>	<i>Exp.</i>	<i>Dev.</i>	<i>Prod.</i>	<i>Decom.</i>
	Score from impact				4	
9	Geographic context /restrictions	<ul style="list-style-type: none"> <li>• West Africa</li> <li>• Caspian sea</li> <li>• Brazil, south America (oil spill monitoring)</li> </ul>				
10	Topographic classification / Offshore classification	n/a				
11	Activity impacted /concerned	n/a				
12	Urgency (How quickly does the user need the solution)	As soon possible for oil spill				
Information requirements						
13	Update frequency	Oil spill: Daily update minimum higher if possible 4 times a day.				
14	Temporal resolution	n/a				
15	Spatial resolution	1m-30m for oil spill response and monitoring.				

16	Data quality	Near the cost: higher requirements
17	Data Coverage and extent	Composite mostly Composite, single sensor
18	Example formats	Ascii tables, Geotiffs for operations (It depends on the context)
19	Timeliness	As soon as possible
20	Existing standards	Some but very broad

## Relevant products

## Content by label

There is no content with the specified labels

