



FCO Strategic Programme Fund  
**BRAZIL PROJECT CONCEPT FORM**

*This form should be submitted prior to putting forward a full Project Proposal. The Post may accept or reject Project Concepts.*

*When the Post agrees a Concept, and invites implementers to put forward a full Project Proposal, it is not a guarantee that the full Project Proposal will be approved for funding. It signals the Post's interest in receiving more details about the proposed project. Before you complete this form, check the website of the British Embassy/High Commission in the country in which you are proposing to work and/or speak to the Post's Project Officers to find out about the Programme Strategy applicable for that country, and to check project viability.*

	<p><b>Project Title</b></p> <p>Information System for Oil Spill Incidents in Waters under National Jurisdiction - SISNÓLEO</p>
<p><b>Purpose</b></p>	<p>The purpose of Sisnóleo is to consolidate and disseminate geographic information about prevention, preparation and response to oil pollution incidents of national significance, allowing oil spill management in a transparent and agile way.</p>
<p><b>Background</b></p>	<p>Brazil currently depends on the communication of the violators in order to be informed about a marine oil spill. For this reason, the oil companies must provide a series of measures of environmental monitoring, in compliance to Law 9.966/2000. Such measures, however, are not integrated, optimized or easily accessible to the institutions that have to act in an integrated manner, according to the National Contingency Plan created by Decree 8127/2013. The proposed Sisnóleo tool will provide government access to oil suspicious features in the ocean, reducing the cost for individual monitoring systems and allowing a fast verification procedure which will benefit serious and reliable companies. It is important to add that Brazil and United Kingdom have a history of partnership on oil activities, such as transportation, transfer, oil exploration and production, therefore it would be beneficial for both countries to have an honest and transparent competition. Modeling a system like Sisnóleo will open the doors to the development of the complete system, strengthening the trade relations between both countries, respecting Brazilian legislation as well as prioritising public information access to all players involved.</p>
<p><b>Outputs</b></p>	<ol style="list-style-type: none"> <li>1. Development of a Satellite/Radar Digital Image Processing algorithm intended to identify suspicious oil spills on the ocean surface, in order to disseminate sensible information among the Brazilian government, companies and society;</li> <li>2. Modelling of the 4 modules that will comprise SISNÓLEO, including mapping of processes and phases of (i) data</li> </ol>

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	<p>base registration; (ii) prevention actions; (iii) preparation and response; and (iv) communication.</p>
<p><b>What change will this project deliver?</b></p>	<p>The new dynamics of the detection process of possible oil spills will considerably reduce response time, allowing a proactive and prevention approach in the management of incidents with oil spill and oil-by products at sea. Environmental monitoring of the activities involving oil transport, transfer, production and exploration will become more efficient and more transparent to society and industrial sector. Besides oil spill preparedness, response planning, and crisis management improvement, it is also expected the achievement of better results from environmental investigations in case of oil spill detection. It is important to highlight the reduction of 34% in the number of confirmed oil spill polygons detected in the EU from 2008 to 2013, after the implementation of the CleanSeaNet by EMSA (European Maritime Safety Agency), similar to the system being proposed.</p>
<p><b>Project Beneficiary(ies)</b></p>	<p>Oil exploration companies; Brazilian society; government participants of the National Contingency Plan (Secretariat of Ports and Coasts of the Presidency; Brazilian Navy; Brazilian Institute for the Environment and Renewable Natural Resources - IBAMA; National Petroleum, Natural Gas and Biofuel Agency - ANP; and National Civil Defence Secretariat in the Ministry of National Integration, and others)</p>
<p><b>Implementing Agency</b></p>	<p>Fernanda C. Pirillo Inojosa          Coordenadora da Coordenação Geral de Emergências Ambientais - CGEMA          Diretoria de Proteção Ambiental - DIPRO          Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais Renováveis - IBAMA          Email: fernanda.pirillo@ibama.gov.br          Telefone: (61) 3316-1070</p>
<p><b>Risks</b>  <i>Provide brief details of any serious risks to the success of the project and how these will be mitigated</i></p>	<p>Project risks are associated with bad use of data produced by the software and lack of training for correct interpretation of satellite/radar images. Radar images must be provided in a regular basis so it can be fed into the system. Those risks can be mitigated by regulating the process for image processing, investigation and dissemination of suspicious polygons. The regulation will be provided by Ibama along with the development of each SISOLEO module. Furthermore, there will be a training program for the employees to ensure reliability and continuity of the service in case staff changes occurs. Sentinel-1A radar images are already being provided each twelve days by ESA for a pre-defined area of interest. An official agreement will be signed with the EU to increase the amount of images provided and speed up data delivery.</p>

Costs TOTAL cost of Project	FY 16/17	158,000.00£	If co-funding has or is being sought, please indicate amount.		FY 16/17	£
	Y 17/18	£	Planned completion date: 28/02/2017		FY 17/18	£
Timing	Planned start date: 17/05/2016					
<b>Post Comments</b>						
CBP Objective/Programme Strategy Indicator project helps deliver						
Condition(s) for Growth this Project supports						
Should this Concept now be worked up into a Full Proposal? If No, give explanation	Yes / No					
<b>Date</b>						



Activity Based Budget (ABB) - SISNOLEO

APRIL 2016 - MARCH 2017																
2016												2017				
Unit	Cost per unit	No. of Units	Total	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	TOTAL
Project Director	£45.00	156	£7,020	£1,404	£1,404	£1,404	£1,404	£1,404	£1,404							£7,020
Project Manager	£28.00	20	£560	£112	£112	£112	£112	£112	£112							£560
Radar GIS Analyst	£26.00	28	£728	£364	£364	£364	£364									£728
System Architect	£23.50	304	£7,144	£1,504	£2,632	£2,256	£752									£7,144
Documenter	£13.00	160	£2,080			£1,040	£1,040									£2,080
Co-funding																
<b>Total</b>			<b>£17,532</b>	<b>£3,384</b>	<b>£4,512</b>	<b>£3,772</b>	<b>£3,308</b>	<b>£2,556.00</b>								<b>£17,532</b>
<b>Total co-funding</b>			<b>£17,532</b>	<b>£3,384</b>	<b>£4,512</b>	<b>£3,772</b>	<b>£3,308</b>	<b>£2,556.00</b>								<b>£17,532</b>

Activity 1.2 - Development and Construction of Detection Algorithm

Unit	Cost per unit	No. of Units	Total	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	TOTAL
Project Director	£45.00	386	£17,362	£1,732	£3,472	£3,472	£3,472	£3,472	£3,472	£1,680	£1,732	£900	£900	£900	£900	£17,362
Project Manager	£28.00	306	£8,568	£952	£952	£952	£952	£952	£952	£952	£952	£952	£952	£952	£952	£8,568
Radar GIS Analyst	£26.00	1,536	£39,936	£4,437	£4,437	£4,437	£4,437	£4,437	£4,437	£4,437	£4,437	£4,437	£4,437	£4,437	£4,437	£39,936
Development Analyst	£23.00	2,778	£63,888	£7,099	£7,099	£7,099	£7,099	£7,099	£7,099	£7,099	£7,099	£7,099	£7,099	£7,099	£7,099	£63,888
System Architect	£23.50	120	£2,820	£940	£940	£940	£940	£940								£2,820
Documenter	£13.00	80	£1,040				£520									£1,040
Travel for visit meeting with EMSA, ESA and UK	£2,400.00	2	£4,800			£4,800										£4,800
Training	£1,800.00	1	£1,800											£1,800		£1,800
<b>Total</b>			<b>£140,214</b>	<b>£19,980</b>	<b>£17,420</b>	<b>£16,900</b>	<b>£15,980</b>	<b>£14,688</b>	<b>£13,388</b>	<b>£13,388</b>	<b>£13,388</b>	<b>£13,388</b>	<b>£13,388</b>	<b>£12,488</b>	<b>£12,488</b>	<b>£140,214</b>

Activity 1.3 -

Unit	Cost per unit	No. of Units	Total	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	TOTAL
A clear breakdown of all costs																
<b>Total</b>																

Activity 2

Unit	Cost per unit	No. of Units	Total	April	May	June	July	Aug	Sep	Oct	Nov	Dec	Jan	Feb	March	TOTAL
A clear breakdown of all cost																
<b>Total</b>																

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