



# **Framework Contract for the supply of geospatial products for the Copernicus Service in Support to EU External Action**

Procurement Procedure Reference: SATCEN-OP-03/18

Open procedure

Appendix E  
Scenarios

## Scenarios

The following scenarios have been designed to test the capacity of the consortium to fulfil the operational needs of the service. The situation depicted and the examples selected are not real and have been created exclusively for the purpose of this test. Nonetheless, they are a representative selection of situations that could be activities of the Copernicus Service in Support to EU External Action.

The results of these scenarios must be included as an annex to the technical proposal following the instructions provided for each scenario. The weight of the scenarios is of 30 point out of the total of 70 points awarded to the technical evaluation. The following table summarises the distribution of points among the different scenarios.

<b>Scenario 01</b>	<b>7</b>
Completeness of the provided dataset.	3
Quality of the provided dataset.	4
<b>Scenario 02</b>	<b>8</b>
Organisation of layers, map layout and legend, including appropriate naming.	3
Attention of cartographic principles.	2
Quality of the provided dataset.	3
<b>Scenario 03</b>	<b>8</b>
Clarity of the final report.	4
Quality of the provided dataset.	4
<b>Scenario 04</b>	<b>7</b>
Selection and description of products	3
Use of analysis methodologies that will satisfy the expected data	2
Identification of the influence of context in the analysis of imagery	2

*Table 1 Distribution of points among the different scenarios*



## Scenario 01 – Non-geospatial Sources.

### 1. Purpose

The purpose of this scenario is to test the capacity of the Tenderer to extract information on a geographic environment using non-geospatial data sources, achieving a complete good quality dataset.

### 2. Evaluation

The final product will be evaluated according the following criteria:

- Completeness of the provided dataset.
- Quality of the provided dataset.

### 3. Description

In the context of contingency planning in the city of Nairobi, a census of all the available health facilities is expected. Users are expecting to have information on:

- Exact location of all health facilities in the area.
- Available capacities of each health facility.

### 4. Input

No particular input is provided for this scenario besides the location (Nairobi) and the user needs as expressed in the description.

### 5. Expected Output

A geospatial dataset with the information that satisfies the user needs. Any format readable by ArcGIS is accepted (shapefile, feature class, etc.).



## Scenario 02 – Production Sample, DGI.

### 1. Purpose

The purpose of this scenario is to create a small product sample to demonstrate the capacity to create products as expected by the Service.

### 2. Evaluation

The final product will be evaluated according the following criteria:

- Organisation of layers, map layout and legend, including appropriate naming.
- Attention of cartographic principles.
- Quality of the provided dataset.

### 3. Description

The European External Action Service requires updated cartography on given location. The purpose of the required urban map is to serve as official cartography for all potential purposes associated to the new law enforcement mission that is currently under planning. These potential purposes may include:

- Contingency planning.
- Local Navigation.

### 4. Input

For the creation of this product, the following input must be considered:

- Available imagery and Area of Interest (in shapefile), as provided.
- The following extraction guidelines:
  - o Information Layers: All urban man-made features for appropriate representation for 1:10K scale mapping, with particular attention to buildings performing an official role (government, justice and administration).
  - o Cartographic Considerations: Include cartographic elements such as geographic and projection grids, scale bar, legend, description, etc.
  - o Extraction Criteria: Follow the guidelines of the DGI – Image Map product, as provided in the portfolio.

### 5. Expected Output

The output is a full deliverable including cartographic output in a single map sheet 1:10K and the associated GDB and MXD files with symbology.



## Scenario 03 – Production Sample, FIR.

### 1. Purpose

The purpose of this scenario is to create a small product sample to demonstrate the capacity to create products as expected by the Service.

### 2. Evaluation

The final product will be evaluated according the following criteria:

- Clarity of the final report.
- Quality of the provided dataset.

### 3. Description

The current situation in Somalia is dire and it is causing a flow of refugees into neighbouring countries such as Ethiopia. The newcomers are settling inside the city of Dolo and the security situation is deteriorating fast. In reaction to this situation a mission is under planning phase. The Mission will attempt to:

- Enable the organisation of a refugee camp at Dolo, Ethiopia. The refugee camp will require to be properly secured and assisted.
- Establish a logistic entry point for the arrival of humanitarian help.
- Support local authorities in local control of the border with Somalia.

Within this context, and to support to the planning phase, the request is to generate a First Impression Report over the city of Bangui, trying to identify:

- Recent changes in the area, in particular signs of arrival of refugees.
- Main transportation facilities and operational status.
- Potential locations for border crossing.

### 4. Input

For the creation of this product, the following input must be considered:

- Available imagery (both pre and post images are provided).
- User needs as expressed above.

### 5. Expected Output

The output is a full deliverable, a First Impression Report, with a maximum of 10 pages.

## Scenario 04 – Production Planning

### 1. Purpose

The purpose of this scenario is to evaluate the capacity of the consortium to analyse the context and needs of an activation and prepare a production plan that could potentially satisfy the user needs.

### 2. Evaluation

The evaluation of the proposals presented by the tenderers will be based on the production plan produced as described in Scenario 04 Section 5 - **Error! Reference source not found.** The aspects that will be evaluated will be:

- Selection and description of products:
  - o Good planning will be able to identify and plan a realistic approach to production.
  - o Good planning will also be able to identify the sequence of tasks and how the expected outputs can realistically produce relevant intelligence.
- Use of analysis methodologies that will satisfy the expected data:
  - o Proper identification of analysis methods will allow to generate datasets that can satisfy the user needs. In particular, combinations of different methods will enrich the final intelligence created.
- Identification of the influence of context in the analysis of imagery:
  - o Accurate identification of activity patterns in the context of the activation is essential to creation of relevant intelligence:

### 3. Description

Two NGO workers have been kidnapped in Khartoum, Sudan. They have remained in captivity during the last three months and negotiations are undergoing. The satellite phone used by the captors allowed the police to narrow down the location of the captives to an industrial area in South East Khartoum (see Figure 1).

The police wishes to identify the exact building in which the captives are being held. They require intelligence to reach to conclusions within one month.



Figure 1 South East of Khartoum



#### 4. Input

The following inputs must be assumed for the production planning:

- There are four production assets, which can be assumed to cover all possible skills.
- The list of available products as provided in Appendix A – Technical Specifications.
- Any combination of imagery that could be realistically acquired.

#### 5. Expected Output

The expected output is a production plan including a table of outputs, a production plan and a context analysis, as described in the following paragraphs. :

a. Table of outputs:

Product Type	Methods applied	Expected output	Delivery Date

b. Production Plan:

A diagram showing the sequence of activities and how the assets will be assigned, including the imagery acquisition plan.

c. Context Analysis:

A brief text or bullet point list considering the context of the activation and what issues must be taken into consideration for a proper interpretation of the imagery.



## Copyright

License of use of the imagery needed for the practical exercise described in this annex provided via the [Copernicus Space Component Data Access](#) (CSCDA) are as follows:

Satellite	Copyright	Scenario Applicable
Pleiades	Pleiades, 12/01/2014, 0.5 Pansharpned included material © CNES (2014). Distribtuion Astrium Services/SPOT Imager S.A, all rights reserved	Scenario 03

Other images used have been obtained from Bing Maps.

Satellite	Copyright	Scenario Applicable
Bing Maps Imagery	© 2018 Digital Globe	Scenario 03
Bing Maps Imagery	© 2018 Digital Globe	Scenario 02