

**LOT3/SC5**

Call for Proposals: **Demonstration of Copernicus-powered Drought Risk and Agricultural Exposure Assessment for Brazil**

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1 Background

Evenflow is providing the European Union Agency for the Space Programme (EUSPA) with technical and business support in matters related to the EU Space Programme users, downstream technology and applications concerning the use of EU Space technologies. To promote the use/uptake of the EU Space Programme data and services by users in this segment, Evenflow is organising demonstrations of services which are (at least in part) **powered by Copernicus**. These demonstrations are funded by EUSPA (through competitive tendering organised by Evenflow). The demonstrations are conducted in close relationship with interested end-users, with the aim to showcase the value of Copernicus for a specific use case of their interest and encourage the end-users to further investigate/invest in the integration of space data in their workflows (e.g., by choosing to procure the service provided by the Service Provider at a later stage).

In this current activity, the focus is on users in the **Insurance segment**. Specifically, Evenflow and its team are working together with an interested insurance player and assessing business processes as well as related user needs. Evenflow performs an assessment of potential EO/Copernicus value-add for specific business processes, and a “demonstration plan” is defined: a plan to (shortly) demonstrate what is possible with a Copernicus-powered service for a chosen business process/user need. Evenflow organises competitive tender for the execution of these short demonstrations.

This specific call intends to **showcase a Copernicus-powered drought risk and agricultural exposure assessment solution for Brazil for a leading international association representing insurance supervisors**. Service Providers are invited to **provide a 3-page maximum proposal** outlining their expertise and proposed approach to execute the demonstration plan. Evenflow will evaluate the technical excellence (technical offer) and economic value (financial offer) of the received proposals and select one proposal.

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2 Objectives and Scope of Demonstration Plan

2.1 User Need

The user needs an independent, Copernicus-powered mid-term (6 to 12 month) drought risk and agricultural exposure assessment for Brazil, with the ability to estimate the potential financial impact of a major drought event, to support its supervisory activities related to climate risk. For that, it would like the selected Service Provider to be able to:

- Derive current and recent drought hazard indicators from Copernicus Earth Observation and climate reanalysis data (meteorological, soil-moisture and vegetation indices)
- Produce a forward-looking, probabilistic mid-term drought outlook (likelihood of drier, normal or wetter conditions) rather than a single deterministic forecast
- Intersect the drought hazard layer with an agricultural exposure layer reflecting land-use and crop-value concentration across Brazil
- Aggregate hazard and exposure into an estimate of the potential financial impact of a major drought (e.g., through an exceedance probability curve), in a manner comparable to existing natural catastrophe models
- Deliver the results in a simple, usable, and downloadable form suited to non-technical supervisory staff

The proof of concept (PoC) solution should include:

- A national-level drought hazard assessment for Brazil, combining current conditions with a probabilistic mid-term (6 to 12 month) outlook
- An agricultural exposure layer for Brazil, based on available land-use/land-cover data, intersected with the drought hazard layer

- An estimate of the potential financial impact of a major drought event, aggregated to meaningful sub-national administrative or agro-climatic regions
- The following interactive elements:
 - Map of drought risk and exposure for Brazil with selectable regions; toggle between current state and the mid-term outlook.
 - Time control for the 6-to-12-month outlook, a layer switch between risk, exposure and financial impact.
- A short report documenting the resulting findings and underlying methodology, including the identification of any potential limitations of the proposed solution linked to the currently available datasets or resource limitations and how they can be addressed. The report should feature a clear and transparent explanation of the probabilistic forecasting methodology, assumptions, and limitations.

The focus of the PoC should be on the analytical approach rather on the sophistication of the visual representation of the tool.

2.2 Foreseen EO value add

- Copernicus Earth Observation and climate reanalysis data can deliver consistent, up-to-date drought indicators and a sub-seasonal to seasonal outlook for Brazil, complementing datasets that are otherwise too coarse or technically complex for supervisors to use directly
- Combining a probabilistic mid-term drought outlook with a current land-use exposure layer enables an estimate of the potential financial impact of a major drought, similarly to outputs produced by established natural catastrophe (NatCat) models
- A simple-to-navigate, EO-based tool can help supervisors form a view of the potential financial materiality of drought risk in the medium term and consider its implications for the insurance sector

Indicative Copernicus data sources may include:

- Copernicus Climate Change Service (C3S): ERA5 reanalysis and seasonal forecasts/projections for precipitation and temperature
- Copernicus Emergency Management Service (CEMS) Global Drought Observatory indicators (SPI, SPEI, soil-moisture anomaly, fAPAR anomaly, Combined Drought Indicator)
- Sentinel-1 / Sentinel-2 and Copernicus Global Land Cover

Complemented, where relevant, by other data sources such as CHIRPS precipitation, ESA CCI/Copernicus soil moisture, a Brazil land-use layer (e.g. MapBiomas) or global land cover (ESA WorldCover), and agricultural-production statistics.

Full list of EO data sources will be confirmed with the selected bidder during the project kick-off.

2.3 Demonstration Plan outline

- The proof of concept should aim to illustrate that a (at least in part) Copernicus-powered solution is capable of providing a consistent, accessible mid-term drought risk and agricultural exposure assessment for Brazil, including an estimate of the potential financial impact of a major drought event.
- The selected Service Provider shall aggregate hazard and exposure results to meaningful administrative or agro-climatic regions across Brazil, and make results available in a simple, usable, and downloadable form suited to non-technical supervisory staff, for example through a map-based interface allowing users to select regions, toggle between current conditions and the mid-term outlook, and switch between hazard, exposure and financial-impact layers.
- The PoC output should also culminate in a short report documenting the drought hazard, exposure and estimated financial impact findings, along with the underlying methodology and any identified data gaps or limitations.

- As part of this activity, the Service Provider shall also make a commercial assessment & offer for the user for potential future cooperation.

2.4 Timeline

Submission of proposals: Proposals should be submitted **by 23:59, 15 September 2026**.

Evaluation and selection: The successful bidder will be notified by end of September 2026.

Start: The team aims to organise a kick-off meeting in early October 2026.

Duration: The demonstration activities are expected to last up to 4 months, with a final demonstration/showcase meeting foreseen at the end of January 2027.

3 Eligibility Criteria

The following eligibility criteria are defined for the Service Provider:

1. The Service Provider is established in an EU Member State
2. The Service Provider has a minimum of 2 years of experience providing similar services as foreseen in the demonstration plan.

4 Proposal

Service Providers are invited to provide a short 3-page maximum proposal with the following contents and respecting the following formatting guidelines:

- Font: Calibri, 12 pts
- Line spacing: 1.0

1. Technical offer [~2.5 pages]

- a. Description of company expertise and experience in related activities
[maximum 20 points]

- b. Description of existing service relevant to the demonstration plan, including an overview of background IPR and Copernicus inputs used to provide the service [maximum 30 points]
- c. Proposed tasks to execute the demonstration and associated timeline. Three milestone meetings should be foreseen: kick-off, mid-term review, and final demonstration [maximum 30 points]

2. Financial offer [~0.5 page]

- a. Table with overview of proposed tasks, associated costs per task, and any other foreseen costs [maximum 20 points]

Evenflow will evaluate the technical excellence (technical offer) and economic value (financial offer) of the received proposals and select one proposal. The proposal should be sent as a PDF to branimir@evenflow.eu, armando@evenflow.eu and lifteris@evenflow.eu, with ops@evenflow.eu in CC, with the subject line: [EUSPA_MKD3_SC5_PoC] Proposal by *CompanyName*.

5 Intellectual Property & Non-Disclosure Agreement

The activities should not foresee the generation of new intellectual property, only the use of existing (background) IP. It should only foresee development work required to ‘tailor’ the existing service to the needs of the demonstration plan. A non-disclosure agreement between the Service Provider, Evenflow and the user is to be finalised after contract award.

6 Financials and payments

- The **total cost of the proposed activities should not exceed €20,000**.
- Payment plan:
 - A midterm payment of 50% of the contract will be paid out upon successful completion of the tasks planned until the mid-term review.

- A final payment of 50% will be paid out after the successful execution of the final demonstration to the user.