

SOURCING DEFORESTATION-FREE CACAO IN PERU

What it is about

Copernicus Sentinel data is being used by chocolate producers to ensure that the cacao they source from tropical regions is not contributing to deforestation. In 2023, the new EU Regulation on Deforestation-free products (EUDR) came into force and means that any operator or trader who places certain commodities (including the subject of this case; cocoa) on the EU

market, must be able to prove that the products do not originate from recently deforested land or have contributed to forest degradation. In this case, we see how Original Beans, a chocolate manufacturer, is using a service based on Sentinel-2 data in order to ensure and demonstrate that the cacao they source from Peru is not contributing to deforestation.



What we found

- Over the last fifty years, global cacao cultivation has resulted in the disappearance of about 15 million hectares of global forest cover.
- Sentinel-2 data are used to provide evidence of the absence of deforestation as part of the due diligence checks that are required to ensure compliance with the EUDR.
- Services such as the one studied in this case can be extended to other commodities under the EUDR, including cattle, coffee, palm oil, rubber, soy, timber as well as derived products such as leather or furniture.

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The Satellite Data

Copernicus Sentinel-2 provides free-of-charge frequent wide-swath, high-resolution multispectral imagery with 13 spectral bands over Peru.



The Service Provider

Nadar is a German-based SME who specialise in EO-enabled forest monitoring services. They have developed an end-to-end software solution, based on Sentinel-2 derived time series indexes that ensures compliance with the EUDR.



The Primary User

Original Beans are a Dutch chocolate manufacturer. They use Nadar's service to ensure the cacao they source is EUDR compliant.



Secondary Beneficiaries

APPCACAO are the national trade association that represents Peruvian cacao producers. They help Original Beans ensure the farms from which they source are not contributing to deforestation.



End User Beneficiary

From chocolate consumers to local communities, society as a whole benefit from verified deforestation-free products. The preservation of forests is something that affects the entire globe. Ensuring that Europe's impact on forests remains minimal is key to the fight against climate change and habitat loss.

About the project

Through a series of case studies, EARSC aims to gather quantitative evidence that the usage of Copernicus Sentinel data provides an effective and convenient support to various market applications. These studies are undertaken in the frame of the project "Showcasing the benefits brought by

the usage of Sentinels data to society, Environment and economy: a bottom-up assessment based on traceable impacts along selected value chains", under an assignment from the European Space Agency (ESA) funded by the European Union as part of the Copernicus programme.

Download the full report from the project website



<http://earsc.org/sebs>

