



UNIVERSITAT
POLITÈCNICA
DE VALÈNCIA

Digiproof-Ai caso estudio del café a partir de los datos abiertos.

**DATAUSE Project en colaboración con
KPI RISK ETHICS & COMPLIANCE**

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*DATAUSE: datos y agricultura.
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"Retos Investigación" (MICINN/FONDOS FEDER)*

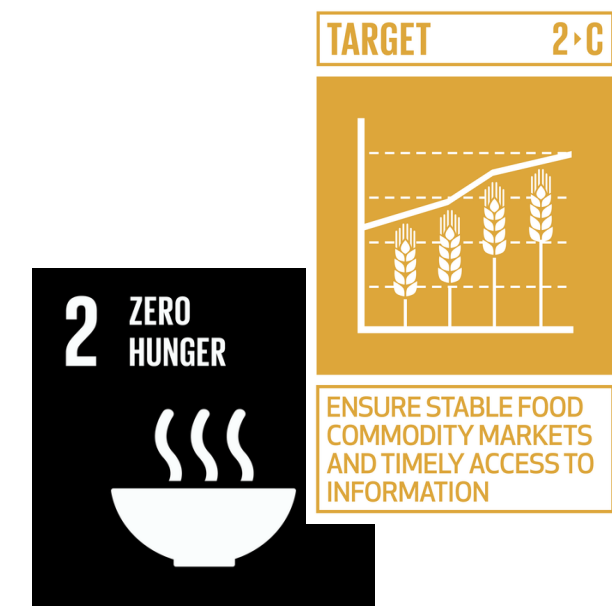
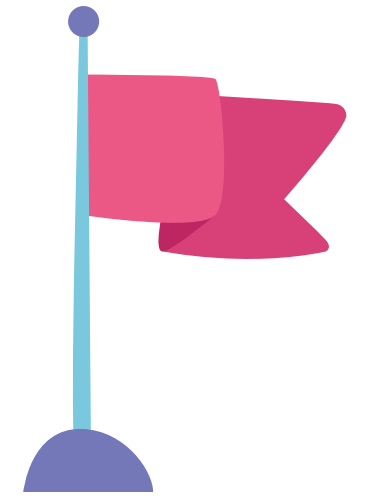


About the Project



Answering questions like:

- How reusable is data in the area of agriculture?
- Which global players are indispensable in the data ecosystem?
- What are the emerging open data reuse and research technologies that can be harnessed for agriculture?
- How much data management work is needed for SDG's 2c goal in this area to benefit everyone?





Data Categories

According to GODAN 14 key categories of data have emerged, of which three stand out: Geodata, Weather Data and Market Data.

ADMINISTRATION AND LEGISLATION DATA

- Government, Agricultural Law and Regulation
- Official Records
- Government Finance Data
- Rural development project data

AGRONOMIC DATA, AGRICULTURAL TECHNOLOGIES

- Production advice
- Pest and disease management data

NATURAL RESOURCES, EARTH AND ENVIRONMENT DATA

- Meteorological data
- Elevation data
- Hydrological data
- Soil data

SOCIO-ECONOMIC DATA

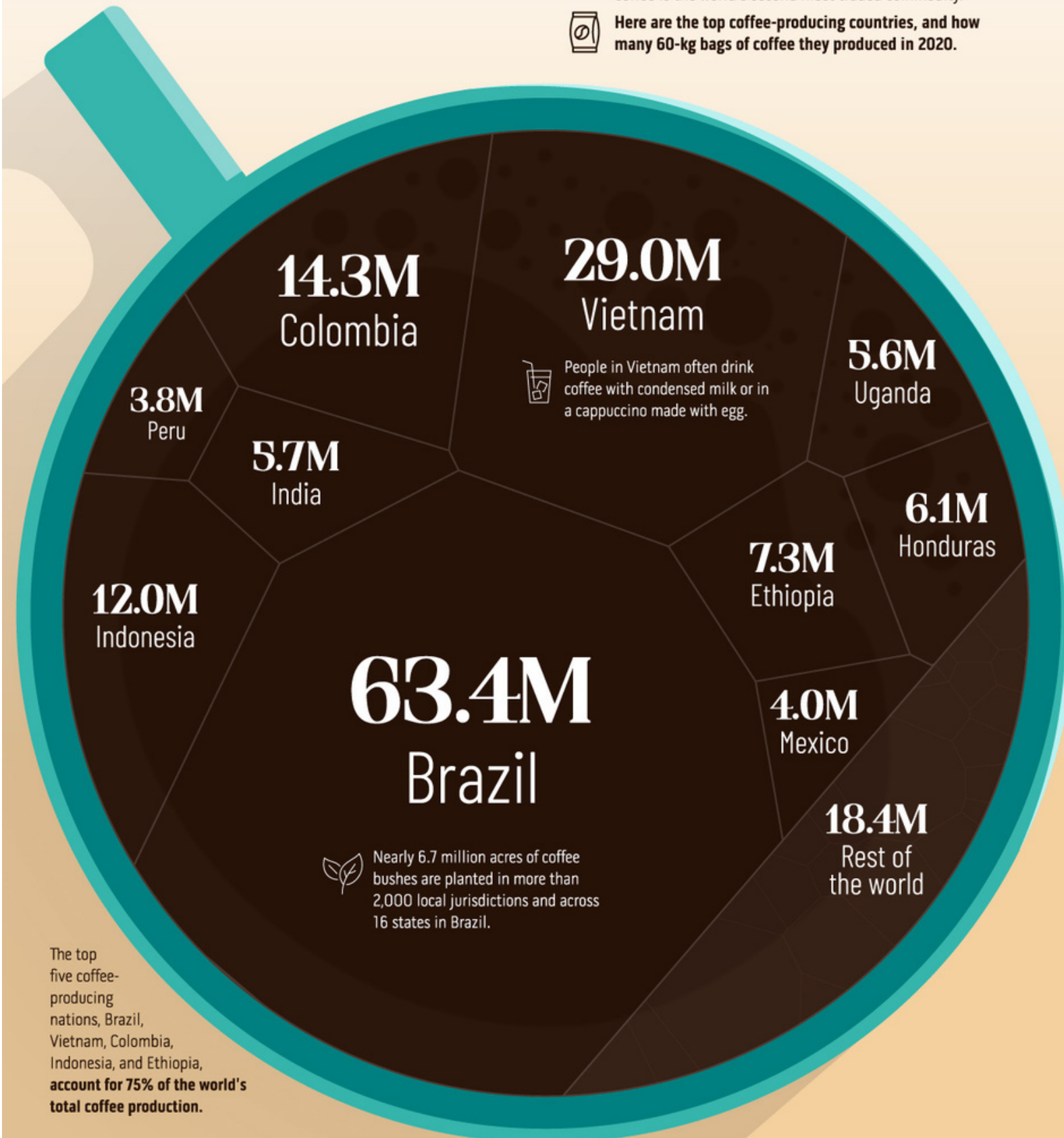
- Land use data and productivity data
- Value chain data
- Infrastructure data
- Market data

Top Coffee Producing Countries From Around the World

With about half a trillion cups consumed per year, coffee is the world's second most traded commodity.



Here are the top coffee-producing countries, and how many 60-kg bags of coffee they produced in 2020.



People in Vietnam often drink coffee with condensed milk or in a cappuccino made with egg.



Nearly 6.7 million acres of coffee bushes are planted in more than 2,000 local jurisdictions and across 16 states in Brazil.

The top five coffee-producing nations, Brazil, Vietnam, Colombia, Indonesia, and Ethiopia, account for 75% of the world's total coffee production.



Why Coffee?

- The third most consumed beverage globally.
- The world's second most traded commodity, after oil.
- Environmental Impact

Government Data Portals

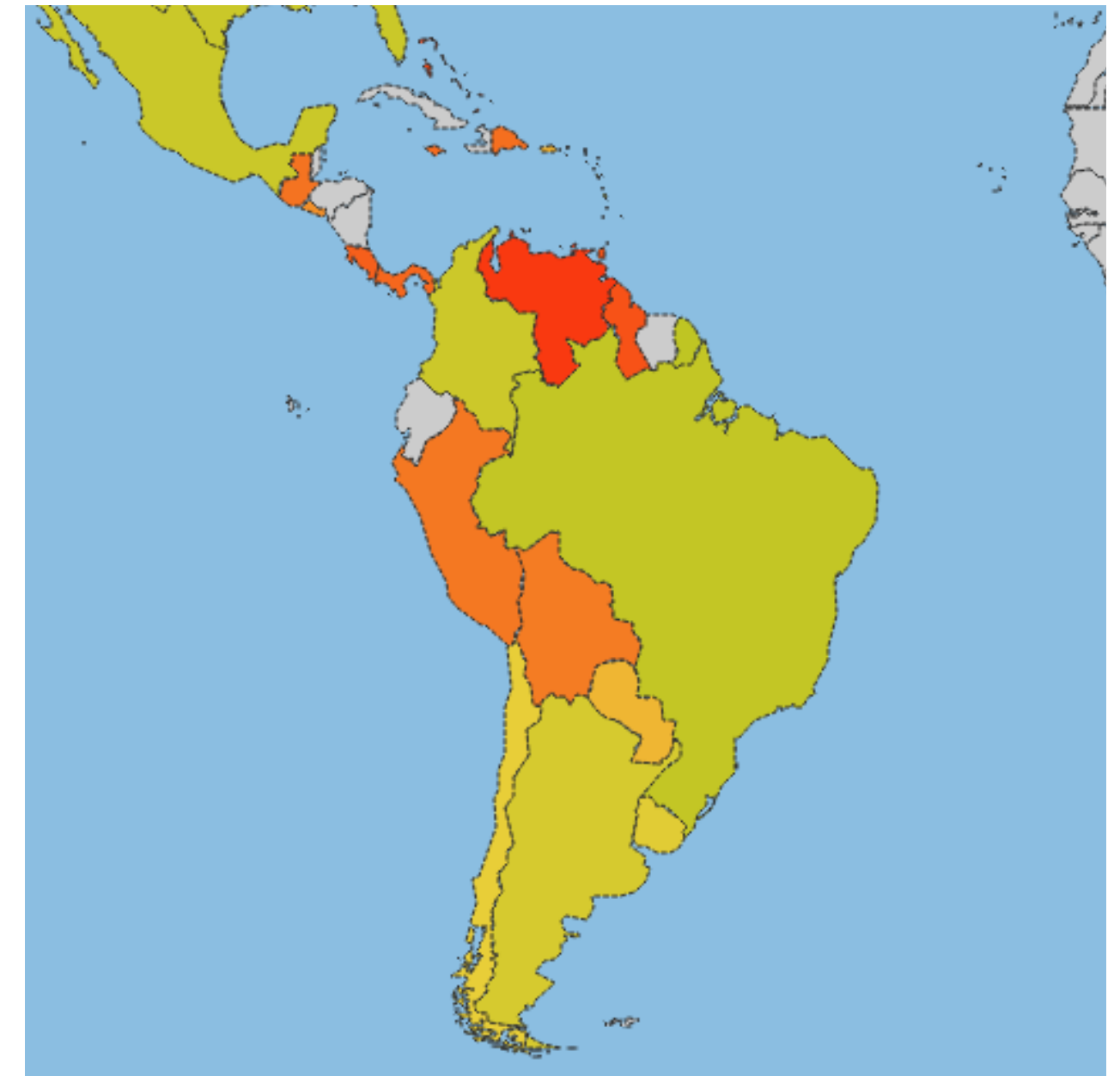
Top 3 producer countries' open data portals as a data source





Rank	Place	Government Budget	National Statistics	Procurement	National Laws	Administrative Boundaries	Draft Legislation	Air Quality	National Maps	Weather Forecast	Company Register	Election Results	Locations	Water Quality	Government Spending	Land Ownership	Score
1	Taiwan	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	90%
2	Australia	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	79%
2	Great Britain	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	79%
4	France	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	70%
5	Finland	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	69%
5	Canada	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	69%
5	Norway	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	69%
8	New Zealand	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	68%
8	Brazil	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	68%
10	Northern Ireland	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	67%
11	Denmark	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	65%
11	Mexico	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	65%
11	United States	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	65%
14	Colombia	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	64%
14	Latvia	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	64%
16	Japan	█	█	█	█	█	█	█	█	█	█	█	█	█	█	█	61%

Brazil and Colombia are ranked at #8 and #14 in the 2016 Index with a score of 68% and 64% published in 2017





Third Party Data Portals

Production

Business Info. and Market



Food and Agriculture
Organization of the
United Nations



UN Comtrade Database



INTERNATIONAL
COFFEE
ORGANIZATION

opencorporates



INTIMEX GROUP



TRIDGE

Cecafe

Digiproof-Ai



Leveraging Open Source INTelligence (OSINT) for business Intelligence edge

It consists of a series of processes whose mission is to make use of public sources in order to search for and collect as much public information as possible about a specific target.

SEARCH

ANALYSIS

búsqueda simultanea multi-fuentes

Add Word...

coffee variety

2022-02-10

Tweets, News, Online

+ ADD CONTEXT

Empty search area

Context 1: ✕

- Coffee ✕
- Bean ✕ Grains ✕
- AND ✕

Context 2: ✕

- Green ✕
- Unwashed ✕ Raw ✕
- Roasted ✕

Context 3: ✕

- Liberica ✕
- Arabica Bourbon ✕
- Arabica ✕ Robusta ✕
- N39 ✕ Nyassa ✕
- Typica ✕

búsqueda por palabras claves

Validated Separator Status Repeat daily ▼

coffee ▼

a que frecuencia ?

Comment:

coffee variety

Edit:



Add Word...

coffee variety search

Since...

Tweets, News, Online



búsqueda por localidad geográfica



Task: Search

Limit: 1000

Trunk Size: 3

Groups: coffee

Geolocation

Location: Hispanic countries

Cities: 5

Language: es

Validated

Separator

Status

Repeat hourly

Comment:

Add Comment...

Add custom property:

- + ADD
- Input
- Textarea
- Number
- Toggle

Custom property name...

Suggested words:



No data to display



Consult query results at a glance: real-time, multi-source.

The screenshot shows a search interface for the query 'arabica'. At the top, there are navigation icons and a search bar containing 'arabica'. Below the search bar, there are several panels. On the left, a panel shows 'Query: robusta' and 'Types: News'. In the center, a 'Staging' menu is open, listing sources: Tweets, News, bing, yahoo, qwant, duckduckgo, tiktok, and linkedin. On the right, another panel shows 'Query: FTACenterBandung' and 'Types: Tweets'. The main content area displays search results. One result is a tweet from 'Wade O Mara' (@wadeomara) dated 5/13/22, 10:17 AM, featuring a photo of a coffee plantation and a text overlay about coffee export. Another result is a tweet from 'FTACenterBandung' (@ftacbandung) dated 4/5/22, 8:40 AM, featuring a photo of a green container and text about coffee export to Iran. The interface also shows various social media interaction icons like hearts, retweets, and comments.

Interact with the results:

- Depending on the source, in real-time.
- Assessing the results: data classification
- Select and Rank results of interest.
- Group favourite results

Consult query results at a glance: real-time, multi-source.



Agrelma: coffee bean

Tweets: FMdelaC

Tweets: zero hunger

Tweets: coffee prices

ImporterCountry: United Kingdom

moreDetailLink: <https://www.agrelma.com/Importers-Oil-Seeds-Vegetable-Oil-Soya-Bean-United-Kingdom/d45296.html>

reqDate: 04/04/2011

reqTypeData: Oil Seeds / Oilseeds - Oils

requestName: Vegetable oil, soya bean oil, rapeseed oil, sunflower oil, peanut oil and coconut oil.

type: Agrelma

3 likes, 1 retweet, 0 replies

Fernando Morales-de la Cruz
@FMdelaC 3/18/21, 3:36 PM

Dear @SenWarren, Business model of coffee, cocoa & tea industries is cruel & illegal. They exploit millions of children to buy raw materials for 1/4 of real price. They have increased child labor. They also deceive consumers with false audits #Fairtrade & #RainforestAlliance <https://t.co/E81xBKvra>

4 likes, 4 retweets, 0 replies

Hunter Bay Big Sky Organic Arabica Coffee Beans, Kirkland Organic Blueberries, Kirkland Vita Rain Zero Vitamin Water, C&F Pinto Beans, Lindt Lindor Truffles

0 likes, 1 retweet, 0 replies

Fernando Morales-de la Cruz
@FMdelaC 5/1/21, 1:19 PM

Dear @LizOrnitz, Your @WSJ coffee story ignores the important facts: 1. Cost of coffee beans is only 1-2% of what consumers pay for a cup of coffee. 2. Coffee corporations pay growers ~1/4 of real price, they increased misery, hunger, malnutrition & child labor in the coffeelands <https://t.co/zlr2cj9gb4>

3 likes, 1 retweet, 0 replies

@vidyooo 4/22/21, 11:48 PM

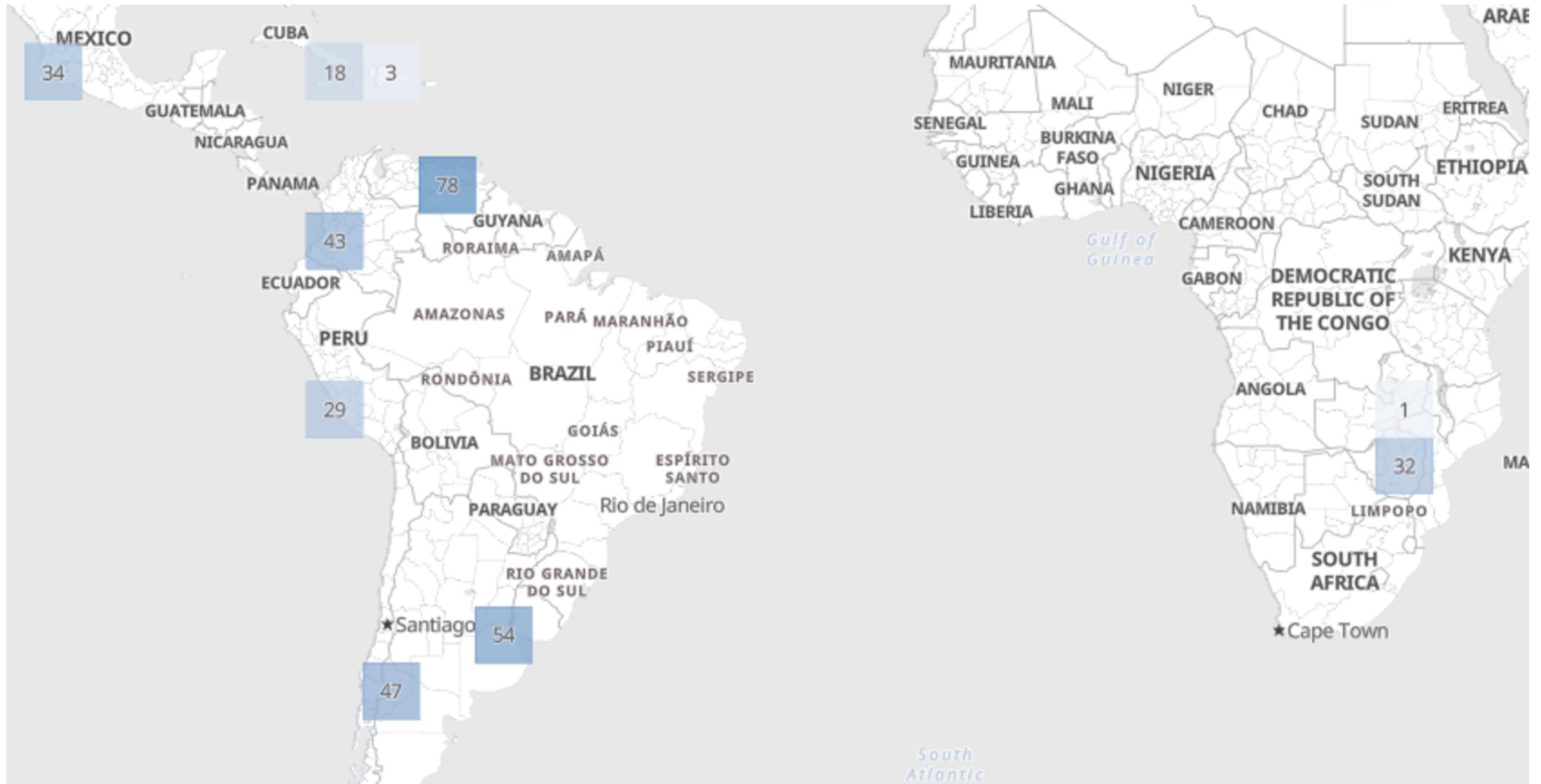
Mathenge wa Nduhiu
@Ndagetare 6/9/21, 3:50 PM

7 Kilograms of these berries make 1Kg of coffee beans. On Amazon 1 kg of a branded Kenyan coffee beans is quoted at \$47.98. My 77yr old mother who still tends to her crop earned the sum total of \$5.6 for 7Kgs of cherry last season. 11% of the final price. Good deal or bad one? <https://t.co/TcVc0yA1fc>

0 likes, 0 retweets, 1 reply

GaaS Cloud (Grocery as a Service Cloud)
@gaascloud 6/9/21, 2:30 PM

Qualitative and quantitative visualisation of the data collection: real-time geolocation



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