Agricultural market dynamics based on data evidence

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DATAUSE Project in collaboration with
KPI RISK ETHICS & COMPLIANCE

About the Project

The project is based on facilitating the consumption of agricultural data by determining data quality, interoperability and reusability based on stable and standardised indicator models and building capacities for reuse.

Related Areas
- Open Data and FAIR Data
- Agriculture
- SDG
- Economics and trade/logistics (pricing)
- World Food Programme

About the Project

Particular goals:

1. **Identify infrastructures and operators for interoperability.**
2. **Implement a stable system for assessing the quality of datasets.**
3. **Experiment with descriptive and predictive indices and models that can be automated.**
4. **Explore emerging technologies FinTech: Blockchain 0 Hunger (B0H)**
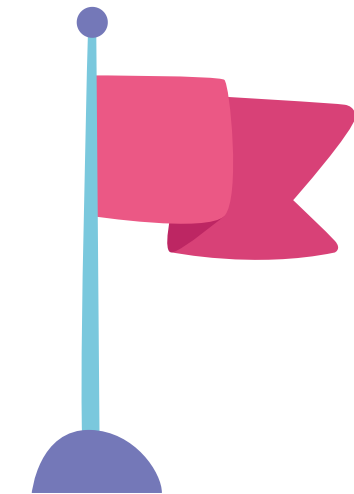
Answering questions like:

- **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?**
- **What descriptive and predictive indices can be useful in the medium and long term?**

Main Targets of the Research

- **Characterise the evolution of the agricultural products and their commercial supply through existing data (in this case is coffee)**

    - **A systematic protocol for downloading data from several sources**

    - **Using different sources to make possible to characterise the dynamics of the coffee market**

- **Aims to build a monitoring and analysis KPI tool with the final results .**

Data Processing

SEARCH (elastic)

DATA STORAGE

KPI ANALISYS

REAL TIME DASHBOARD

DATA SOURCES

BUSINESS INFORMATION

MEDIA

TWITTER

ALIBABA

AGRELMA

TARGETED DATA

- ⭐ **Market Prices**
- ⭐ **Suppliers Offers**
- ⭐ **News & insights**
- ⭐ **Seasonality data**
- ⭐ **Import/Export**
- ⭐ **Production**
- ⭐ **Surpluses**
- ⭐ **SDG related**

Known Data

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

- Meterological data
- Elevation data
- Hydrological data
- Soil data

SOCIO-ECONOMIC DATA

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

https://www.godan.info/pages/agriculture

GODAN
Global Open Data
for Agriculture & Nutrition

Data Updates

Coffee production worldwide in 2020, leading countries.

Country	Production (thousand 60 kilogram bags)
Brazil	69 000
Vietnam	29 000
Colombia	14 300
Indonesia	12 400
Ethiopia	7 375
Honduras	6 100
India	5 700
Uganda	5 620
Mexico	4 000
Peru	3 800

Production in thousand 60 kilogram bags
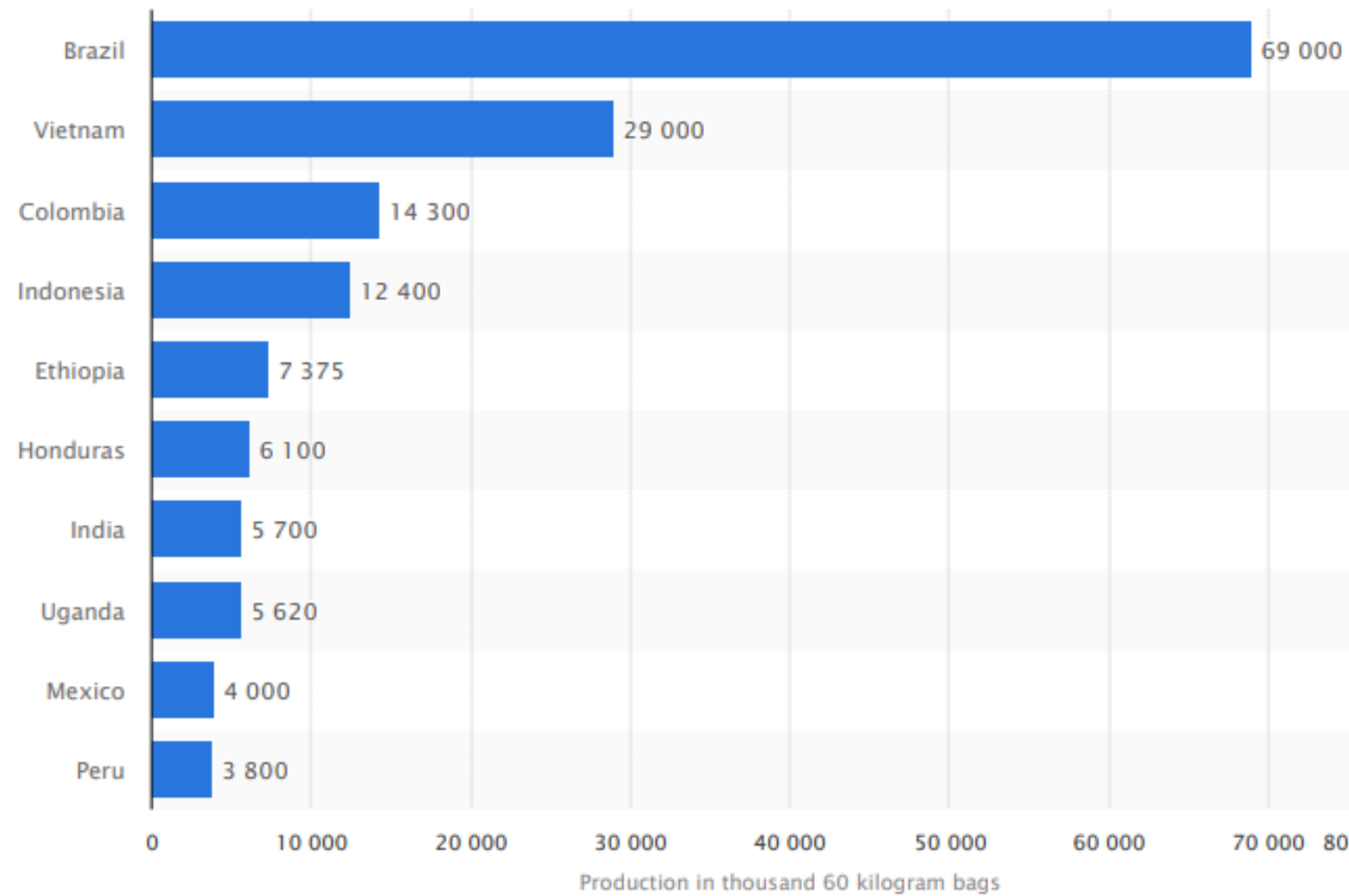
Details: Worldwide; ICO; 2020

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Top 3 exporter countrie's open portals as a data source

Cecafé

Federación Nacional de Cafeteros de Colombia

Intimex
INTIMEX GROUP

Known data that are not updated quickly

FAO — Food and Agriculture Organization of the United Nations

UN Comtrade Database

opencorporates

GLOBAL COFFEE PLATFORM — for a sustainable coffee world

INTERNATIONAL COFFEE ORGANIZATION

TRIDGE

Several sources for tracking information by keywords.

Our Team

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Thank you!

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