

Community of Practice meeting on Linked Open Data and the FAIR principles

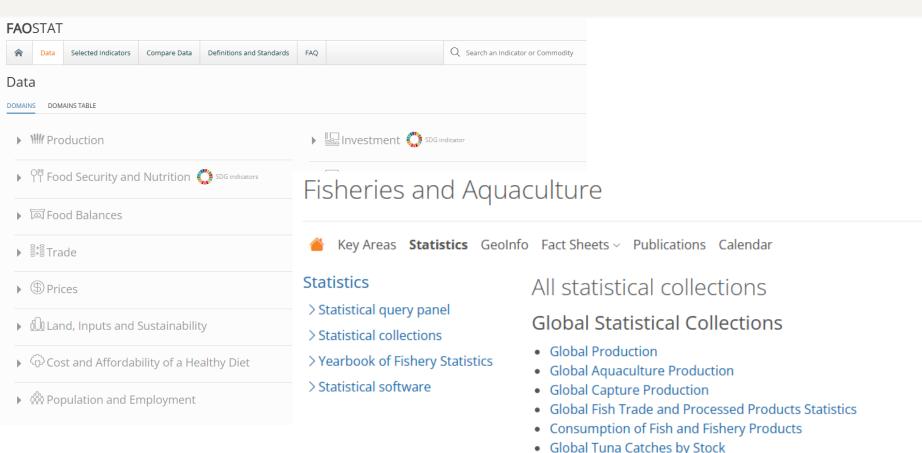
04 December 2024, online

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# **Today**

- 1. Statistical data and classifications @FAO
- 2. Caliper
- 3. Ongoing & Future

## Statistical data @FAO



### Regional Capture Statistical Collections

• Eastern Central Atlantic (CECAF)

Global Number of FishersFIRMS Global Tuna Atlas (GTA)

- Mediterranean and Black Sea (GFCM)
- RECOFI
- Southeast Atlantic

## Statistical Classifications @FAO

Different classifications are used for data collection and dissemination in FAO. Some are maintained by FAO, others by different bodies. E.g. Central Product Classifications, by UNSD.

Until very recently, the dissemination of statistical classifications and standards used in FAO was:

- rather fragmented across the FAO website
- ancillary to the data
- scarcely available as consumable data (analogue to the difference between a library catalogue and the books it describes)

Caliper development started off in 2017, and since 2022 is an FAO official service.

https://www.fao.org/statistics/caliper/

## **Caliper**

Caliper is website, a suite of tools and a methodology for the management, **dissemination** and use of statistical classifications.

https://www.fao.org/statistics/caliper/

- Coverage: classifications maintained either by FAO or by UNSD (within respective institutional namespaces).
- Functionalities: browsing, searching, download, query, online access, collaborative editing. Powered by: ShowVoc, Fuseki, Loddy, VocBench
- Data model: RDF with SKOS, XKOS, DC, OWL. Detailed documentation, with sample queries to guide users in using the SPARQL endpoint.

Inspiring principle: classifications as public goods



### Caliper - Statistical Classifications in a Linked Open World

Discover v

About Classifications Tools v Resources v



Caliper is an Open Linked Data platform developed by the Food and Agriculture Organization of the United Nations (FAO) for the dissemination of statistical classifications. Caliper exploits well established web-based, open source technologies to make statistical classifications accessible and understandable by the statistical community and the wider public.

#### Related - Statistical classifications

- FAO Methods and Standards
- UN Statistical Classifications
- EUROSTAT Statistical Classifications

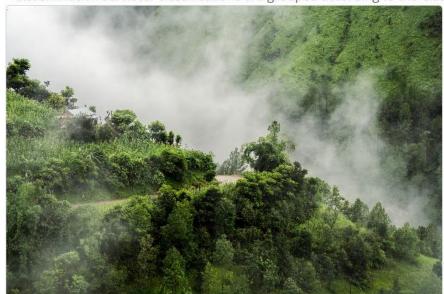
### Caliper - Statistical Classifications in a Linked Open World



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### Classifications in Caliper

In this section, users can consult and access the full list of statistical classifications available in Caliper, with pointers to the associated dissemination services. Classifications are grouped according to the Classification of Statistical Activities (CSA).



#### Agriculture, forestry, fisheries

- Indicative Crop Classification for the Agricultural Census (ICC)
- World Census of Agriculture Crop List (WCA)
- FAO Classification of Forest Products (FPC&D)



#### **Economic statistics**

- Classification of Individual Consumption by Purpose (COICOP)
- Central Product Classification (CPC)
- International Standard Industrial Classification of all Economic Activities (ISIC)
- FAOSTAT Commodity List (FCL)

... to publishing both classifications and their metadata. Then, resources are:

- given URIs for globally unique identifiers (findability)
- accessible by both humans and machines (accessibility)
- available in standard and open formats (interoperability)
- documented (for reusability)

## **Ongoing #1 - Dissemination**

We are setting up a partnership with UNSD for the joint dissemination of the International Family of Classifications through Caliper.

- Caliper infrastructure will be hosted at the UN Global Platform (BC3 thematic node)
- Joint dissemination with dedicated namespaces (https://stats.fao.org; https://unstats.un.org)
- Agreed data governance defined for the inclusion and production of new resources

# Ongoing #2 – Data processing @FAO

We are setting up an environment for testing the impact of using Caliper for the **internal** management of classifications and code lists, oriented to supporting internal information systems.

- Use a "clone" of the Caliper infrastructure for dissemination
- Classifications and code lists accessed through an internal SPARQL endpoint

#### Goals:

- Support data aggregation
- Support classifications "expansions" and "integration" for the purpose of internal data processing

# Ongoing #3 – Contribute to the international effort on stats modernization

### Challenges:

- Identify the technology(ies) that best support data needs
- Support rapid evolution of data sector
- Be inclusive!

### **Pointers**

FAO statistics

https://www.fao.org/statistics/en/

Caliper

https://www.fao.org/statistics/caliper/en

International Family of Classification

https://unstats.un.org/unsd/classifications/family/