



Food and Agriculture
Organization of the
United Nations

17-21 October 2022

FAO SCIENCE AND INNOVATION FORUM

Harnessing science, technology
and innovation for transforming
our agrifood systems

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SIDE EVENT

09:00-10:30 | VIRTUAL

12
October
2022

Fisheries Atlas; a flexible Spatial Data Infrastructure

A demonstration of the innovative fisheries atlas approach that can be customized to meet local and regional needs for fisheries related data management and traceability purposes. The atlas is built on a Spatial Data Infrastructure (SDI) to manage data 'from fishnet to internet'. Supported by H2020 Blue-Cloud, the Atlas innovates collaborative geospatial data management. We will provide examples from the FAO FIRMS Global Tuna Atlas (GTA) and the Global Record of Stocks and Fisheries (GRSF), and Open Science approaches that show the flexibility of an e-Infrastructure.

Speakers: Marc Taconet (FAO), Aureliano Gentile (FAO), Julien Barde (IRD - France), Yannis Marketakis (FORTH - Greece), Emmanuel Blondel (FAO), Gianpaolo Coro (CNR-ISTI - Italy)

REGISTER

Fisheries Atlas; a flexible Spatial Data Infrastructure

Side event organized by

Food and Agriculture Organization of the United Nations

IRD- France

FORTH - Greece

CNR-ISTI - Italy

Background and rationale

The FAO Fisheries Information and Knowledge Management Team assists with many initiatives to improve data management in fisheries. One effort aims to provide a global Fisheries Atlas; a Spatial Data Infrastructure (SDI) where data are managed 'from fishnet to internet'.

We will introduce some collaborations building on this SDI that show innovations in geospatial data management; the FAO FIRMS Global Tuna Atlas (GTA) and the Global Record of Stocks and Fisheries (GRSF). We will explain the scope and technology of the GRSF and GTA and how they can contribute to improve understanding of food-systems. This includes our use of semantic technologies and knowledge bases and services for the management of geospatial data.

We will also show some innovative Open Science research examples of data analytics in the marine environmental science domain.

Our data science approach is open and transparent, and we welcome other initiatives that want to re-use data and further develop the Atlas.

The development of the Fisheries Atlas and related products was made possible with generous support from the EU H2020 program, including the ongoing H2020 flagship project Blue Cloud - Grant Agreement No.862409.

AGENDA

09:00–09:10

OPENING

Welcome and introduction

Marc Taconet, FAO NFISI - Team Leader Information and Knowledge Management

09:10–10:15

Fisheries Atlas; a flexible Spatial Data Infrastructure

The Global Record of Stocks and Fisheries (GRSF) and the Global Tuna Atlas (GTA)

Aureliano Gentile, NFISI Knowledge Manager, FAO of the UN

The GRSF Knowledge Base and the semantic technologies to manage its content

Yannis Marketakis, R&D Engineer, FORTH, Greece

Data Management for the Global Tuna Atlas

Julien Barde, IT research engineer, IRD, France

The Spatial Data Infrastructure (SDI) of the Fisheries Atlas

Emmanuel Blondel, Spatial data senior consultant, FAO of the UN

Open Science examples building on e-Infrastructure capabilities

Dr. Gianpaolo Coro, Researcher, CNR-ISTI, Pisa, Italia

10:15–10:30

Q&A