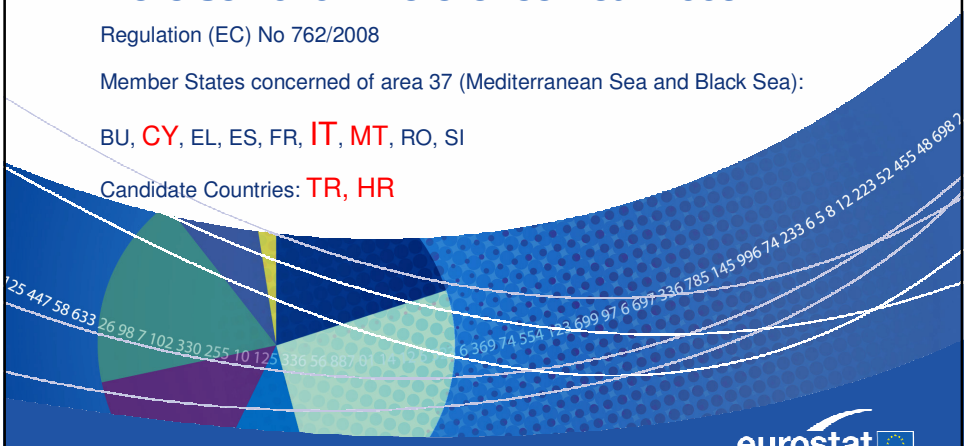
# European Union – European Commission
# Aquaculture Statistics
# Exercise 2010 – Reference Year 2009

Regulation (EC) No 762/2008

Member States concerned of area 37 (Mediterranean Sea and Black Sea):

BU, CY, EL, ES, FR, IT, MT, RO, SI

Candidate Countries: TR, HR





## Dynamic context

For Similar data and requirements on aquaculture domain (and fisheries):

- ❖ Different national sources
- ❖ Different contact points for data transmission
  - Official or non official
  - Subject to changes
- ❖ Different deadlines for data transmission and reference years
- ❖ Different periods of data collection



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- Possible differences in species identification
- Different transmission formats
- Different tranmission supports
- Differents standards used for statistical concepts and definitions
- Different level of data validation and cross-checking (automatic or not)
- Different enforcement measures (EU infrigement procedures)



## Main results:

- Very complex systems acting in parallel
- Huge workload for the data senders and data receivers : 1724 MS early requirements only for EC (DG MARE for fisheries and aquaculture)
- High risk of discrepancies not only when updating



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## Eurostat's initiative (2009) within EC context:

**SIMPLIFICATION**

- Single entry point
- SDMX system
- Internal EC co-operation
- International co-operation



## Regulation (EC) No 762/2008

Detailed legal act asking for:

1. The production from aquaculture excluding nurseries and hatcheries
2. Input to capture-base aquaculture
3. Production of hatcheries and nurseries
4. Data on the structure of the aquaculture sector

CE 762.2008 EN.pdf



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- Deadline: 31 December of the year following the reference year
- Article 7: transitional periods (EL,SI)
- Article 8: derogations when major difficulties to provide figures



## DATA TRANSMISSION

- eDAMIS
  Electronical DAta and Metadata Information System
- SDMX
  Statistical Data and Metadata eXchange



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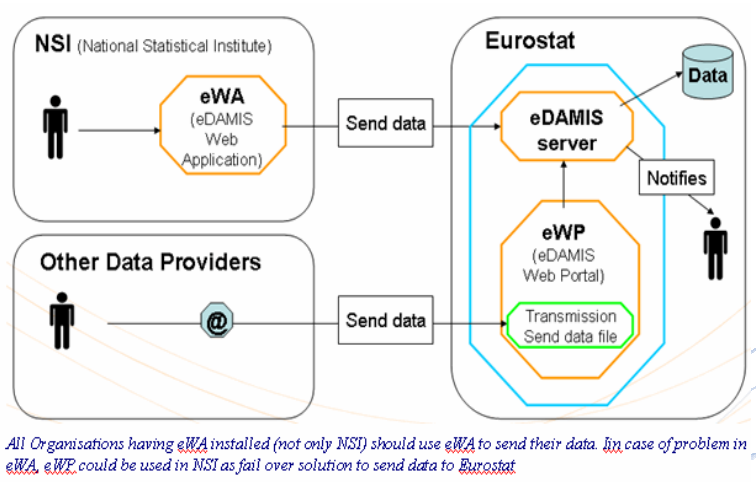
**eDAMIS** is an integrated set of tools for the transmission of statistics from Member States to Eurostat via the Single Entry Point.. From the perspective of Member States, there are two visible components of eDAMIS:

- **eDAMIS Web Portal (eWP)** is available on Internet at https://webgate.ec.europa.eu/edamis. It allows registered users (when authorised) to send data files to Eurostat, to consult the traffic reports and to update the dataset inventory or to manage user rights.
- **eWA:** The eDAMIS Web Application (eWA) is a "mini web server" to be installed on a dedicated computer (PC or Unix) in the National Statistical Institutes and used for sending statistical data files to Eurostat. Interactive, semi-automated and full-automated transmissions are supported.



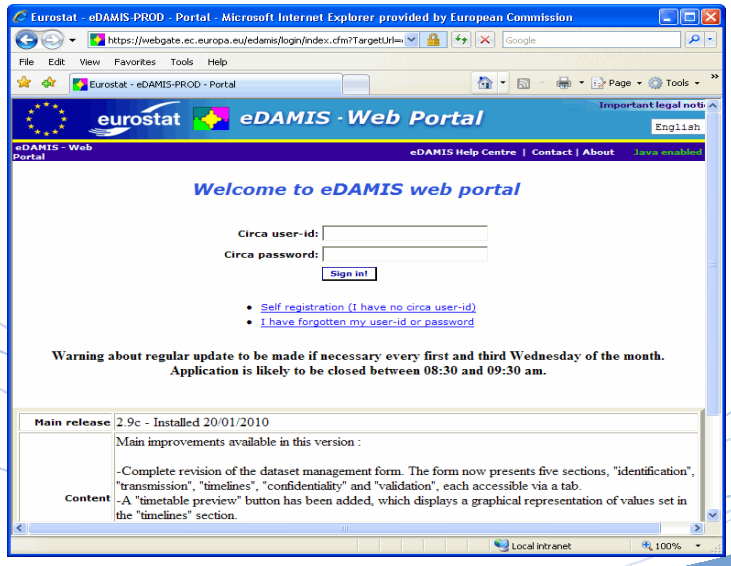


## ACCESSING THE eDAMIS WEB PORTAL

- To access the eDAMIS Web Portal, type in the following URL into the address bar of your web browser and press ENTER: https://webgate.ec.europa.eu/edamis

- The site appears as follows:





The different dataset for Fishery statistics are the following:

1.For aquaculture and the various tables under Annexes 2-5 of the Regulation (EC) No. 762/2008:

- **FISH_AQ2A_A: production from aquaculture excluding hatcheries and nurseries**
- **FISH_AQ2B_A: production of fish eggs for human consumption from aquaculture**
- **FISH_AQ3_A: input to capture-based aquaculture**
- **FISH_AQ4_A: production of hatcheries and nurseries at eggs stage in life cycle**
- **FISH_AQ5_A3: data on the structure of the aquaculture sector**

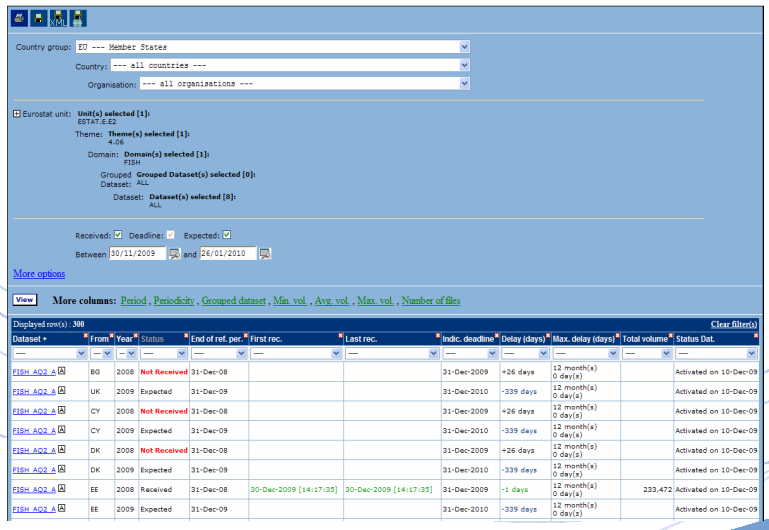
2.For aquaculture data under the previous regulation 788/1996 - countries who have asked for a derogation under Articles 7 and 8 (AT, CZ, DE, EL, PL, PT, SI, & BE, LU)

- **FISH_CULTR_A**.



**Timetable between dates detailed**

Old dataset occurrences not available in the timetable do not appear in this report



## REFERENCE INFORMATION

To get further information please download the respective user manual:

- for eDAMIS Web Portal: http://circa.europa.eu/Public/irc/dsis/edamis/library?l=/reference_documents/edamis_portal_ewp/gui-03-2009-09-11/_EN_1.0_&a=d

- for eDAMIS Web Application http://circa.europa.eu/Public/irc/dsis/edamis/library?l=/reference_documents/edamis_application/qug-01-2008-08-05/_EN_1.0_&a=d



# SDMX

## Statistical Data and Metadata eXchange

SDMX is a standard designed to describe statistical data and normalise their exchange in public administration, education, health, tax and customs administrations, regional authorities, statistical authorities, etc. aiming at achieving a higher level of efficiency and effectiveness of the exchange processes.



## 1. Why SDMX?

The driving force behind SDMX is reduction of development and maintenance costs, elimination of human errors and faster, more reliable and simpler data processing through the following:

- Reduction of diversity across statistical data production processes by appropriate use of the standard.
- Minimization of manual interventions through machine to machine communication;
- Unification of data stored inside one organisation and across national and international organisations by harmonization of the statistical metadata (e.g., concepts, code lists);
- Standardisation of statistical information by development and use of standard objects (e.g., schemes, data structure definitions);
- Standardisation and sharing of IT tools by development of generic IT tools and architecture.

## 2. Structure of data and the SDMX objects

Data represent concrete observations of particular statistical phenomenon at a certain moment of time. **Data set** is a collection of related observations, organized according to a predefined structure which the SDMX objects presented in this section describe.



**Data Structure Definition (DSD)** is metadata describing the structure and organization of a data set, the statistical concepts and attached to them code lists used within the data set.

**Concept Scheme** is a maintained list of statistical concepts that are used in **DSD**.

**(Hierarchical) Code list** is a (hierarchical) inventory of codes used in a DSD listing values to be used in the representation of dimensions or attributes.



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## Dimensions / Attributes / Measure

The concepts called "**dimensions**" determine the data set's "physical" structure. The **code lists** are linked to the dimensions listing the possible values the concepts can take. Other concepts do not affect the data set structure itself, but give additional information about the concepts used and they are called "**attributes**". Attributes can be coded or not coded. The actual reported value ("**measure**" in SDMX language) is also considered a concept.

All the SDMX objects are defined in the **SDMX Technical Specifications** (www.sdmx.org).



## FORMATS

For the exchange of the data sets two file formats are recognized by SDMX:

- SDMX-ML (preferred) based on the XML to describe and structure the data inside a file
- SDMX-EDI (also called GESMES/TS). Due to inherent constraints, this format is not always able to respond to all requirements

## Co-operation between

- Eurostat (European Commission)
- FAO
- ICES
- Others…



- A consortium of several major international organisations is responsible for development of SDMX. These include Eurostat for the European Commission. Others are the World Bank, the Bank for International Settlements (BIS), European Central Bank (ECB), International Monetary Fund (IMF), the Organisation for Economic Co-operation and Development (OECD) and the UN.
- SDMX has been given high visibility within Eurostat as being a key contributor to various interlinking initiatives to improve the efficiency of data collection and data quality under the European Statistical System.

- Work to apply SDMX principles to fisheries statistics was started in November 2009 by Eurostat Unit E2 (Agriculture and Fisheries), FAO and ICES under the working title SEIF (SDMX for Eurostat, ICES and FAO). Eurostat have accepted a secretariat role/coordination of this work. FAO have contributed by publishing code lists and other SDMX artefacts.

- A central code list registry with standardised code lists and a data dictionary is a key to meeting existing and future EC data collection requirements. FAO will be looked to as being the maintenance agency for the code lists where they and the Coordinating Working Party for Fisheries Statistics (CWP) have the lead (on behalf of fisheries organisations globally).



# Thank you for your attention!



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