

The Global Record of Stocks and Fisheries

Stocks and Fisheries



Fishery is an activity leading to the harvesting of fish, within the boundaries of a defined water area (*i.e. fishery for Atlantic Cod in East Greenland*)

Stock is a group of individuals of a species occupying a well defined spatial range independent of other stocks of the same species (*i.e. Swordfish in the Mediterranean sea*)

The Objective

GRSF aims at supporting the collaborative production and maintenance of a comprehensive and transparent inventory of stocks and fisheries.

- **Integrate** records from different data sources
- Assign **global identifiers** to records (both machine and human interpretable)
- Expose GRSF records in an **homogenous** way

The Problem



Fisheries and Resources Monitoring (FIRMS), is reporting at regional level, and collects data from 14 intergovernmental organizations.
[# Stocks: **491**, # Fisheries: **190**]



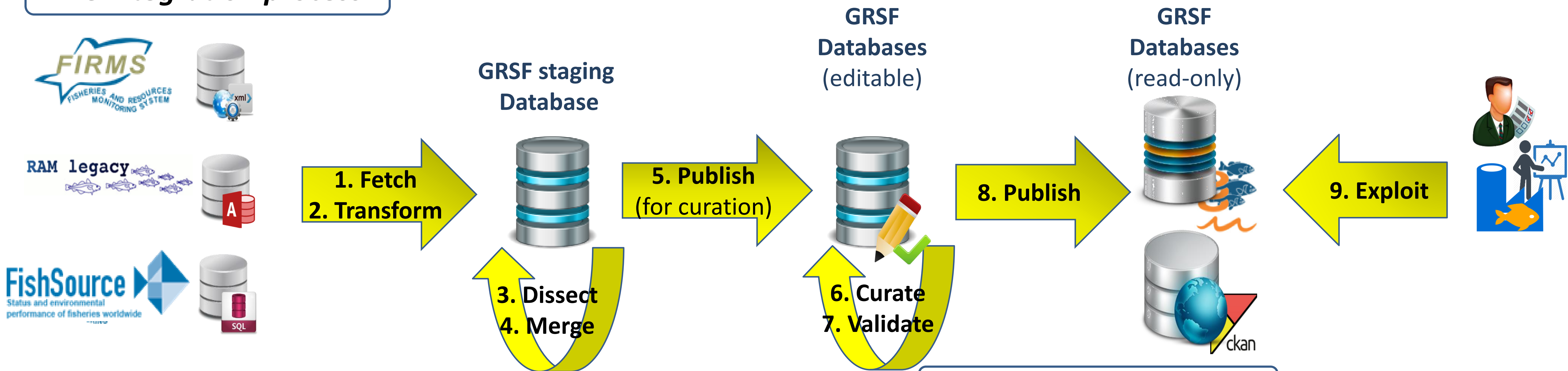
RAM Legacy Stock Assessment Database is reporting at national or subnational level, and compiles stock assessment results and time-series for commercially exploited marine populations.
[# Stocks: **989**, # Fisheries: **none**]



FishSource focuses on fishing activities and includes information about the health of stocks, the quality of their management and the impact of fisheries on the rest of the ecosystem
[# Stocks: **873**, # Fisheries: **2,203**]

*The selected databases contain **complementary** information (both conceptually and geographically) in **different formats***

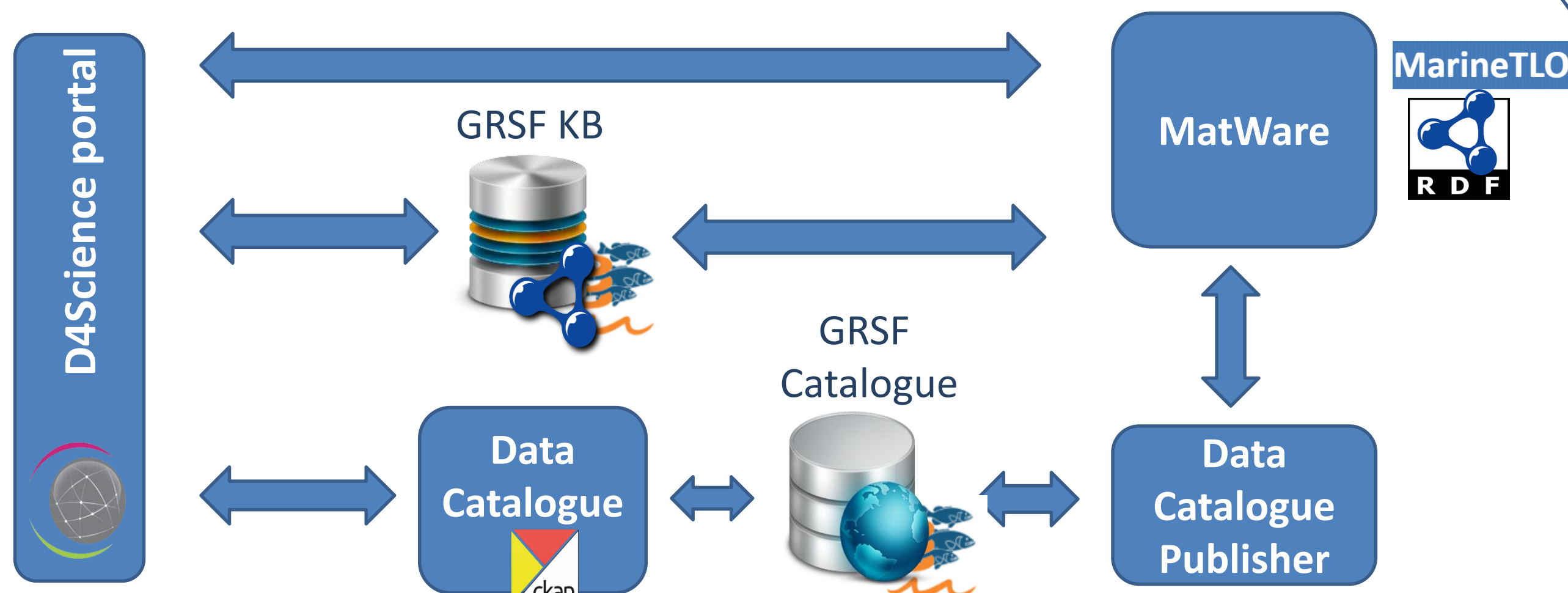
The integration process











Key Points

- ISO standards (*i.e.* ISO3 country codes, 3-Alpha codes for species) are used during the transformations
- Dissect enables the production of multiple records in the GRSF, from single records in the original sources
- Merge ensures that records containing similar information will be delivered as a single record in GRSF
- Curation & Validation ensure the high-quality of GRSF before making it publicly available

The software components



GRSF Contents

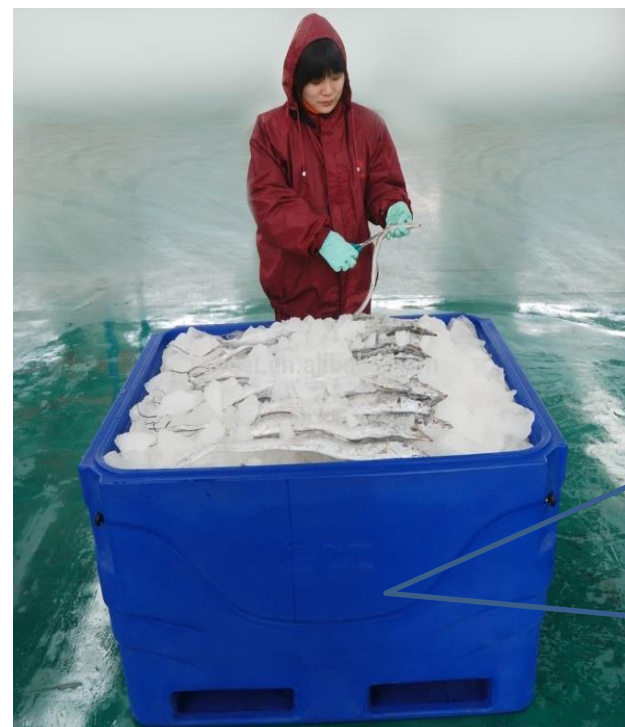
	FIRMS	RAM	FishSource	GRSF
Stocks 	491	989	873	2187
Fisheries 	190	-	2,203	7,486
Species 	578	264	389	1,204
Water Areas 	264	636	302	1,181
Fishing Gears 	40	-	59	97
Flag States 	69	-	96	163
Assessment Methods 	58	74	-	110
Scientific Advices 	243	-	326	506

Exploitation

GRSF is the first on-line global record of stocks and fisheries, and is considered as the key instrument of global fish stock status monitoring and traceability.

Involved stakeholders:

Seafood industry, resource managers, companies, marine scientists, analysts, geologists, any many more...



Species: *Gadus morhua*
Species code: COD
Fishing Area: FAO 21.3.M
Fishing Gear: Bottom otter trawls
Fishing Gear code: OTB
Flag State: Lithuania
Flag State Code: LTU
Management Authority: Northwest Atlantic Fisheries Organization (NAFO)

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