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The German National Technical Programme on the conservation and sustainable use of aquatic genetic resources (AqGR)

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Overview

- Brief presentation of the Federal Office for Agriculture and Food (BLE) and the Information and Coordination Centre for Biological Diversity (IBV)
- Background, contents, implementation, data dissemination, future challenges of the German National Technical Programme on AqGR
- Elaboration of the National country report for the *SoWAqGR* in Germany

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Federal Office for Agriculture and Food (BLE)

The BLE within the BMEL's scope of responsibility

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The BLE – Who are we?

• Central implementing authority, independent federal institution under public law,

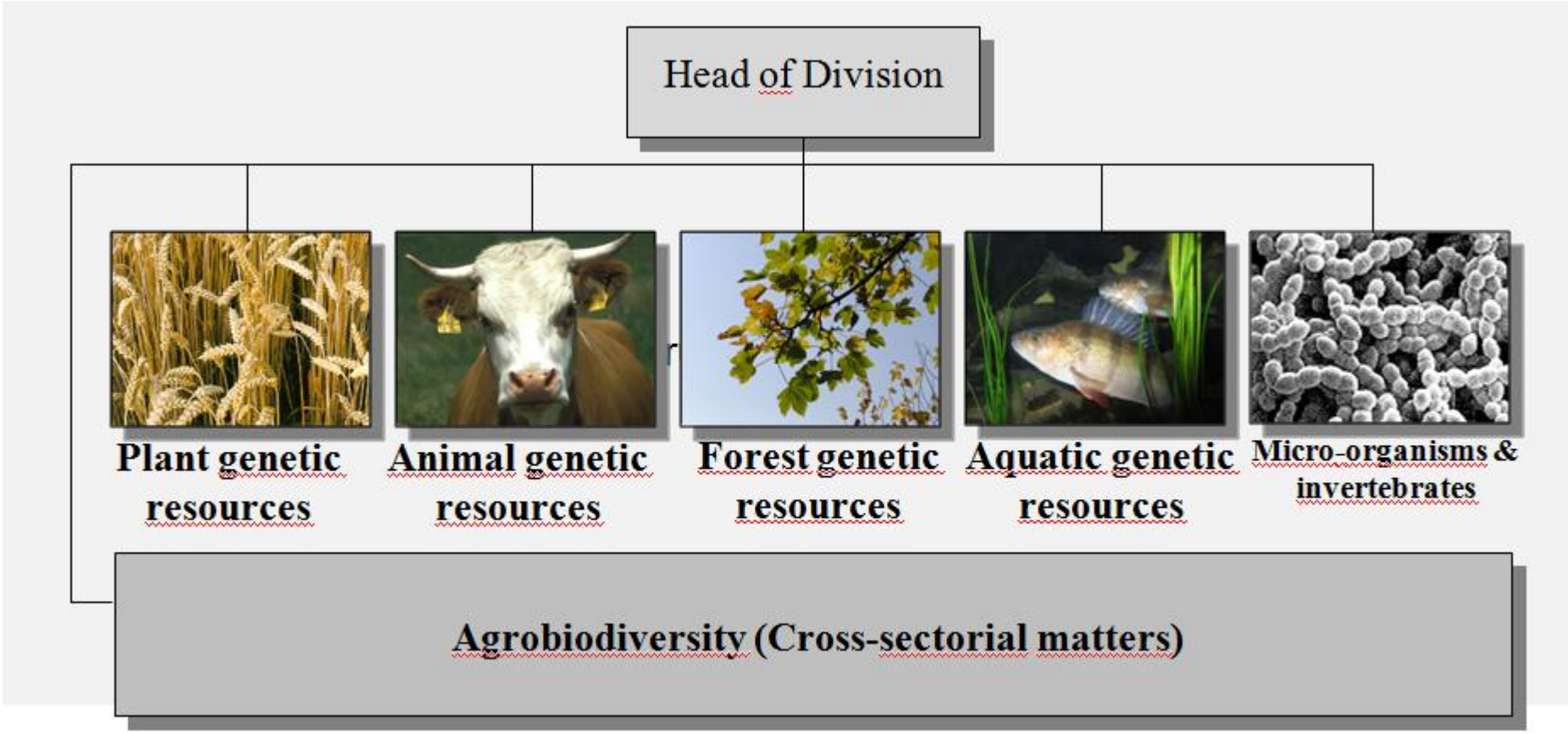
• Tasks in these sectors:

- ➢ Agribusiness
- ➢ Fisheries
- ➢ Food
- ➢ Health-oriented consumer protection

• 1,200 staff members

- ➢ Head office in Bonn
- ➢ Three external offices
- ➢ Five additional locations
- ➢ 200 crew members (including international vessels)

Information and Coordination Centre for Biological Diversity (IBV)



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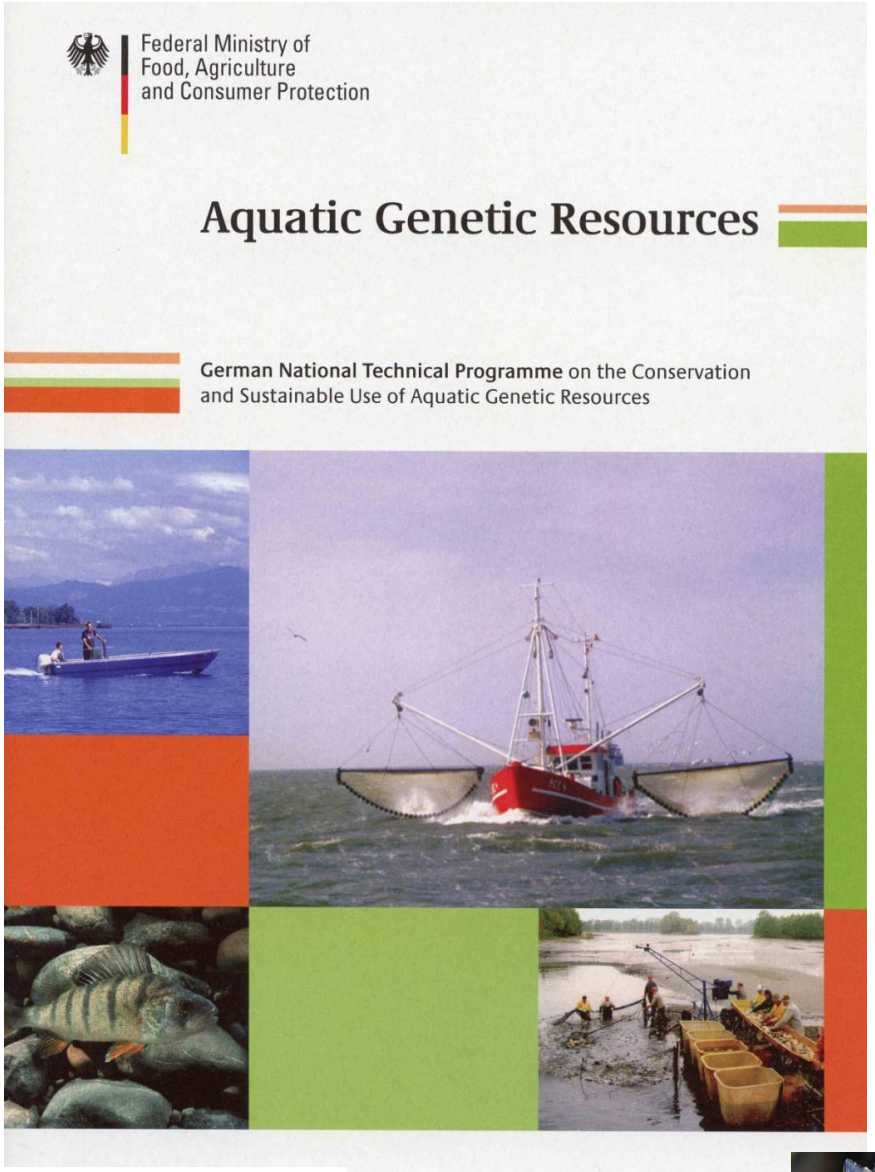
German National Technical Programmes on the Conservation and Sustainable Use for Genetic Resources

- Plant Genetic Resources for Food and Agriculture (new version 2012)
- Animal Genetic Resources (new edition 2008)
- Forest Genetic Resources (new edition 2010)
- Aquatic Genetic Resources (new edition 2010)
- Microorganisms and invertebrates (is currently being prepared, publication planned for 2015)



Legal basis:

Convention on Biological Diversity

National concept on the conservation and sustainable use of genetic resources for food, agriculture and forestry developed by the Federal Ministry of Food, Agriculture and consumer Protection (BMELV) in 1999

Expert group composed of representatives from the fisheries administration, research and fisheries associations

National Programme AqGR approved in 2005

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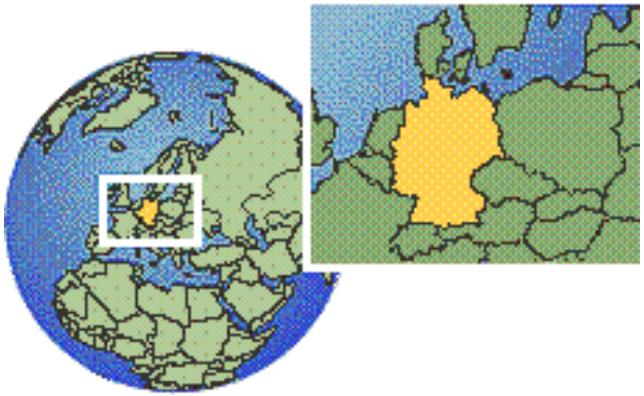
Structure of the fisheries sector in Germany

- **Coastal and Offshore fisheries** (North- and Baltic Sea)
- **Inland fisheries** (Lake and river fisheries)
- **Aquaculture** (Common carp and trout farming)



The current programme is structured into the following sections:

- *Importance and vulnerability of aquatic genetic resources*
- *Legal and political framework conditions*
- *Current conservation and support schemes*
- *Aims of the technical programme*
- *Future measures for conservation and use*
- *Organization and implementation*

Expert Committee on AqGR

- Providing advice on technical issues
- Assessment of measures for the conservation of AqGR
- New proposals for actions to be taken or to improve technical programme
- Coordination of measures with relevant actors
- Evaluation of reports on the implementation and results of the programme
- Exchange of information and experience

Needs for Action in German aquaculture

Common carp and trout farming

- Measures aimed to preserve existing breeding strains should be supported
- Breeding activities should be fostered and intensified
- National inventory and genetic characterization of existing breeding strains should be carried out
- Cooperation of breeding activities at federal and international level should be promoted
- Suitability/necessity of sperm cryobank should be evaluated

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Implementation of the programme by BLE research funding concerning biodiversity in aquaculture:

Examples 1: "**Inventory of cultivated AqGR**" focusing on the major species on the pond culture and production of salmonids in Germany (2005-2008)

Example 2: **"Documentation, analysis and aquaculture potential of wild AqGR: Populations of arctic char (*Salvelinus umbla*) in Germany**" (completed 2010)

Example 3: "**Cryopreservation of AqGR**": Building an advanced cell bank for carp strains (2012-2015)




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Documentation and dissemination of data

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National Inventory *AGRDEU*

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Marine and inland fisheries species

AGRDEU - Fachdatenbank für Aquatische Genetische Ressourcen

Meer
- Information
- Artenliste
- Suchformular

Süßwasser
- Information
- Artenliste
- Suchformular

Aquakultur
- Information
- Alle Datensätze
- Suchformular

Stichwortsuche

OK

- (•) Meer + Süßwasser
- ( ) Meer
- ( ) Süßwasser

© BLE

Startseite > *Süßwasser* > *Artenliste* > *Detailansicht*

Sibirischer Stör

Beschreibung

Der Sibirischer Stör (Acipenser baerii baerii) kann bis zu 200 cm groß werden. Er lebt über Sand- und Schlammgrund.
Der Körper ist haiförmig, hat keine Schuppen aber auffällige Knochenplatten in 5 Reihen, dazwischen sternförmige Knochenplättchen. Der Rücken ist braungrau bis schwarz, der Bauch weiß bis gelb. Sein spitzes, lang gestrecktes Maul hat eine ovale Maulöffnung mit 4 davor liegenden leicht gefranste Bartfäden in einer Querreihe. Charakteristisch ist die heterocerke Schwanzflosse (verlängerter Oberlappen).
Der Sibirischer Stör ist ein anadromer Wanderfisch, lebt im Meer oder Brackwasser, zieht zum Laichen ins Süßwasser. Vorkommen: nordöstl. Ostsee, Nordmeer, Flüsse in Russland und Asien

Quelle: Unterwasser-Welt Ostsee (2008).

Verbreitung, Ökologie und Gefährdung

Sibirischer Stör

Bildquelle: Wikipedia.org, Autor: User:Lone Guardian

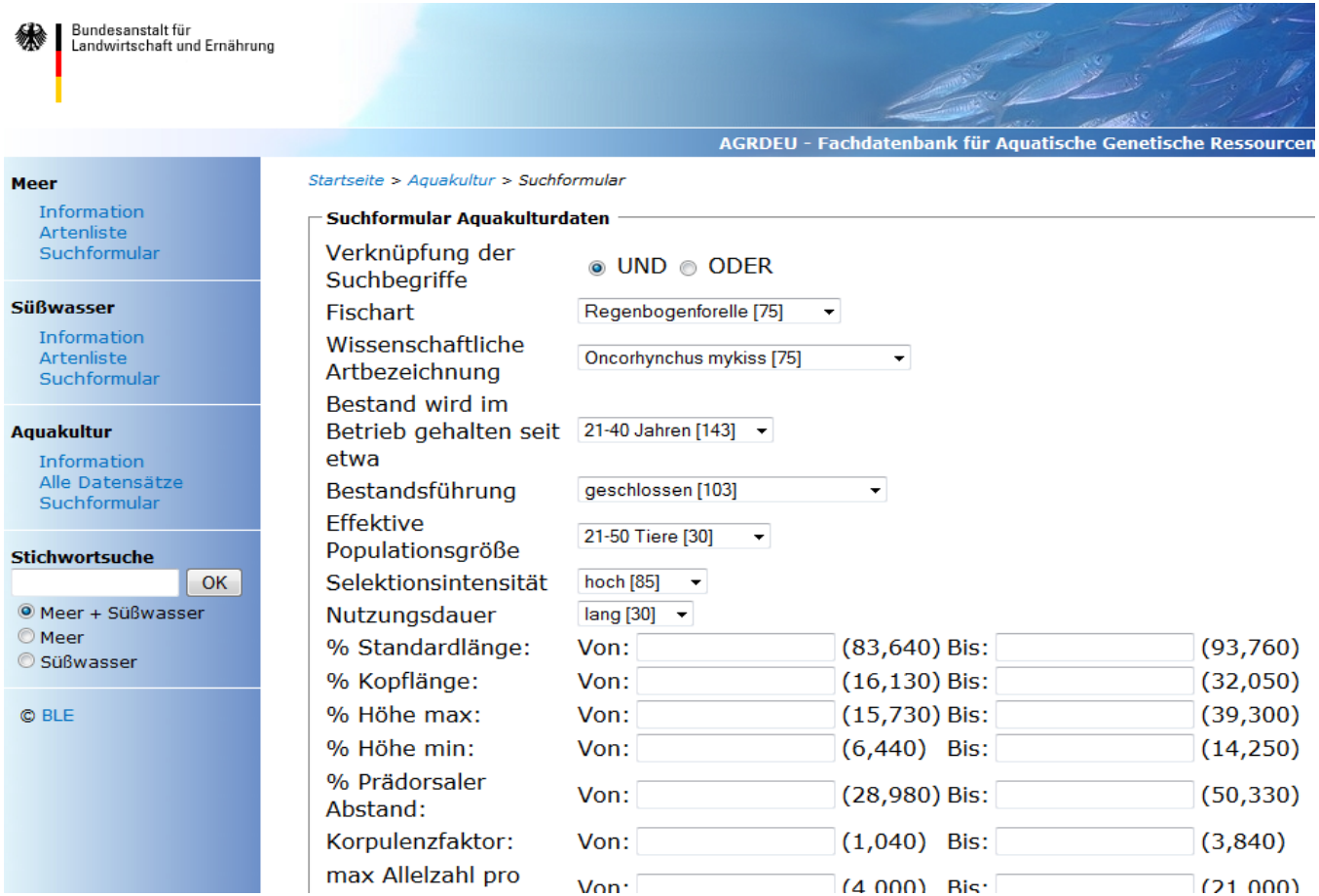
Systematik

Stamm:	Chordata (Chordatiere)
Klasse:	Actinopterygii (Strahlenflosser-Knochenfische)
Ordnung:	Acipenseriformes (Störartige)
Familie:	Acipenseridae (Störe)

Wissenschaftlicher Name

Acipenser baerii baerii Brandt, 1869
Quelle: FishBase

Farmed species, e.g. Rainbow trout in aquaculture



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Food and Agriculture Organization of the United Nations

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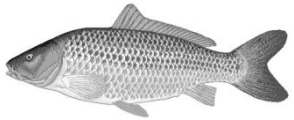

Approach to the completion of the questionnaire

IBV worked out a first draft chapter by chapter and jointly agreed upon the draft with the expert committee on AqGR.

The focus was mainly on the most important commercial farmed aquatic species

expert judgement is preferred to complex surveys.

For the German country report on AqGR we tried to adjust FAO questionnaire to our national conditions as far as possible

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Thank you for your attention!

An English version of the “German Technical Programme on the Conservation and Sustainable Use of AqGR“ is available at the website on aquatic genetic resources of the GENRES Information System:
http://www.genres.de/en/aquatic-genetic-resources/




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The six major aims of the programme:

- Preserving the diversity of AqGR in the long-term *in-situ* and *ex-situ*
- Fostering the introduction of extinct fish species eg. Atlantic salmon, sturgeons
- Making a contribution to conservation rehabilitation of aquatic ecosystems
- Supporting all activities for the conservation and sustainable use of AqGR
- Establishing more transparency in the allocated responsibilities and competencies of the Federal Government, states and municipalities as well as among the persons, organizations and institutions working in this field
- Using and promoting synergies that may arise for increased collaboration at national, regional and international levels