COOPERATION ON THE POLISH-RUSSIAN BORDER WITHIN THE EUROPEAN UNION FUNDS

POLAND - RUSSIA
CROSS-BORDER
COOPERATION PROGRAMME
2014-2020

PROGRAMME
IS CO-FINANCED
BY THE EUROPEAN UNION

Poland-Russia cross-border cooperation

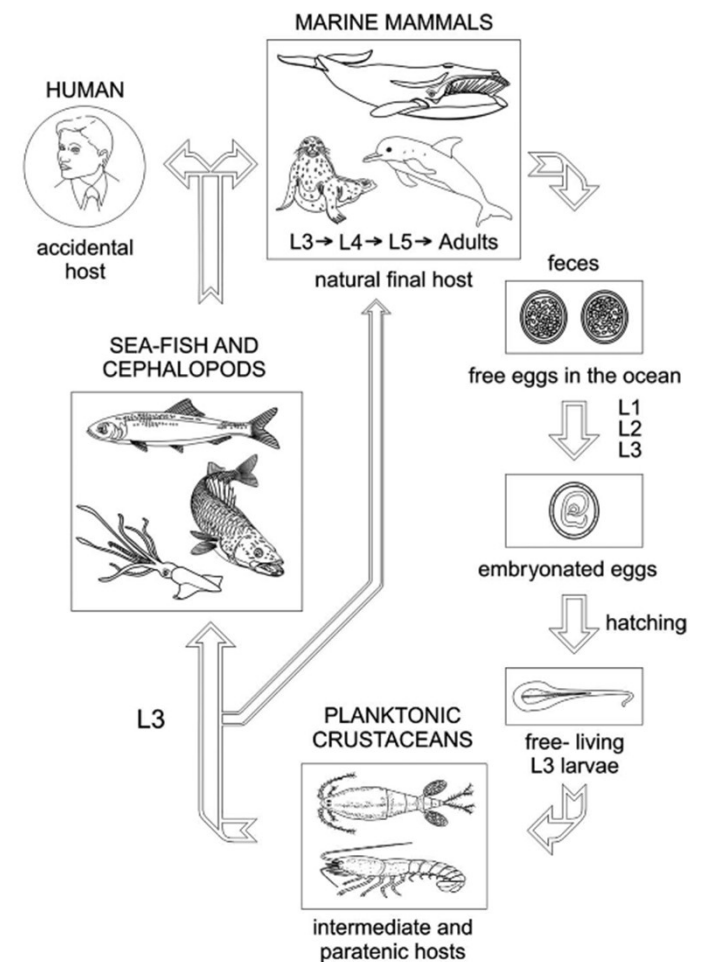**[Development of technologies for the rehabilitation of the ecosystem of the Vistula Lagoon]**

Jerzy Rokicki

University of Gdańsk, Department of Invertebrate Zoology and Parasitology

Cooperation
Department of Invertebrate Zoology and Parasitology UG between ATLANTNIRO Russia, Kaliningrad 2004-2005
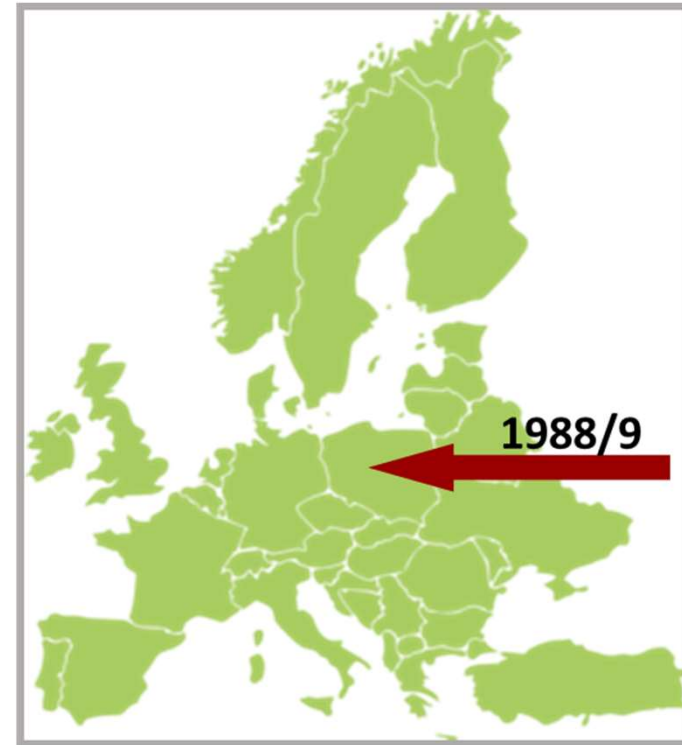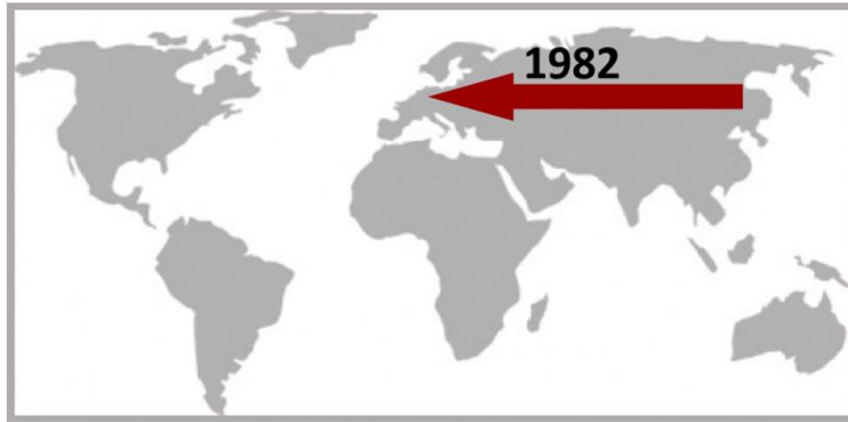
- **Diagnostic of parasitic nematodes Anisakidae in herring from Baltic Sea**

- **Mutual complementation of laboratory diagnostics of parasitic nematodes from the Anisakidae family that are dangerous for humans**

- **Application of the developed diagnostics in veterinary laboratories and fish harbour in Gdańsk and Kaliningrad**
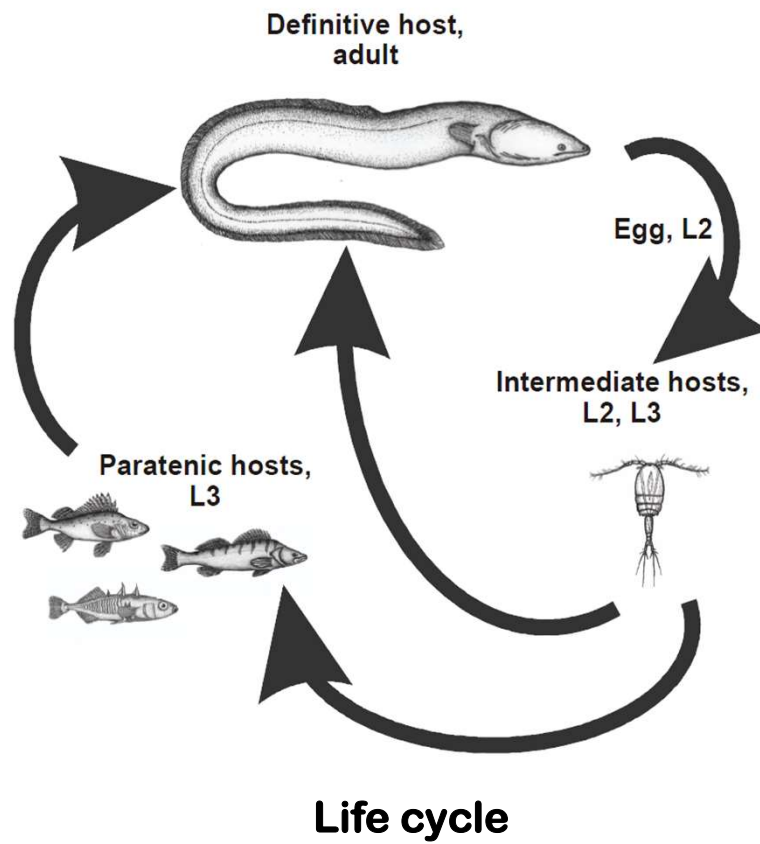
European eel *Anguilla anguilla*

**as a species threatened with extinction
is covered from June 2007
protection resulting from
the Washington Convention (CITES)**

INVASIVE, ALIEN PARASITIC SPECIES

**(Re) Introduction of eel to Europe,
The beginning of the 80s of the last century**

Parasitic nematode - Anguillicoloides (=Anguillicola) crassus

Definitive host,
adult

Egg, L2

Intermediate hosts,
L2, L3

Paratenic hosts,
L3

Life cycle

Monogeneans
Pseudodactylogyrus anguillae
Pseudodactylogyrus bini

Uncontrolled restocking

As part of the restocking of the Vistula Lagoon in 2006
(839 kg / 88 400 pieces of fry)
and Lake Wdzydze in 2007

80 eels were examined (89-241mm, 0.9-23.1 g)

Anguillicoloides crassus
Vistula Lagoon: 14.0%, 2.6 ind.
Lake Wdzydze: 6.7%, 1.5 ind.

Pseudodactylogyrus spp.
Vistula Lagoon: 32.0%, 2,6 ind.
Lake Wdzydze: 96.5%, 5.3 ind.

**Restocking should be coordinated by Poland and Russia
due to the migration of eels in the Vistula Lagoon**

Neighbourhood Programme, which includes economic and scientific/technological
cooperation. Minimising the negative effects of biological invasions in the trans-border
basin such as the Vistula Lagoon is a typical example of a problem that can be solved
only by the coordinated action in neighbouring countries

Thank you