SUStainable AQuaculture and the environment (SUSAQ)

The Baltic Region - Good Practice Workshop







Aquaculture in freshwater ponds in Poland — the way to protect environment

Igor Wawrzyniak

Ministry of Agriculture and Rural Development (MARD) the Department of Fisheries

Freshwater fisheries in Poland – general information

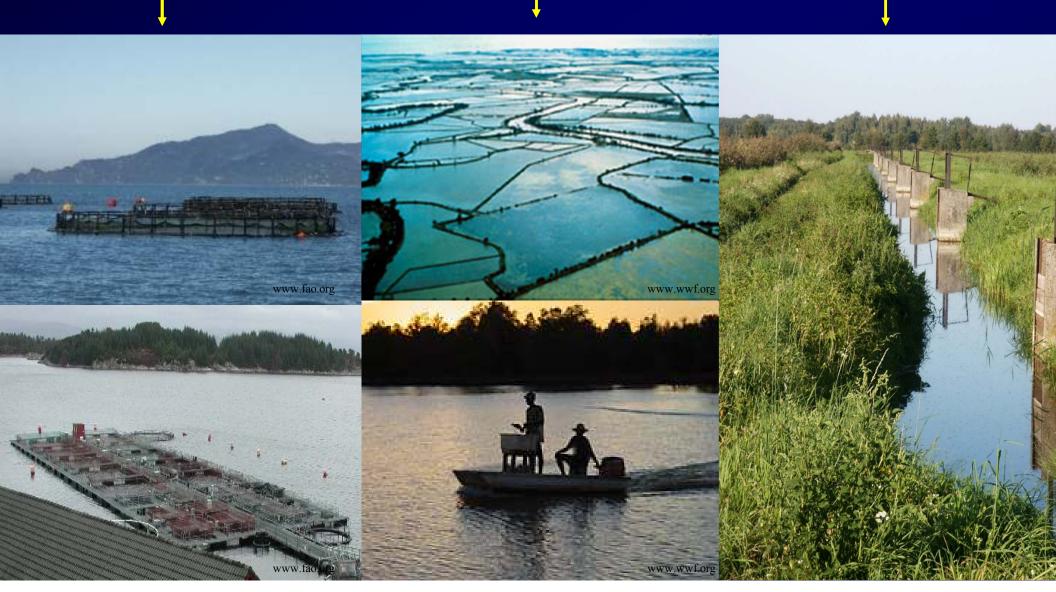
- The total area of inland waters in Poland is approximately 600 000 ha,
 - of which: lakes almost 300 000 ha
 - rivers and streams 140 000 ha
 - fish ponds more than 55 000 ha
 - dam reservoirs 55 000 ha
 - other waters 40 000 ha (oxbow lakes, gravel pits ...).
- Inlandwater fisheries in Poland comprises:
 - fish farming and fish breeding (aquaculture);
 - sustainable use of living freshwater resources (captures + enhancing).
- Production of freshwater species from inland fisheries amount more than 50 000 t, of which are:
 - caught: 15 000 t (3-4 ths. t commercial, 10-15 ths. t recreational),
 - farmed: 35 000 t (carp 15 -18 ths. t, trout 12-15 ths. t, others 3 ths. t).

Types of aquaculture

marine aquaculture

brackish water aquaculture

fresh water aquaculture



Ponds - artificial water bodies (installations) built for fish production

Pond fish farming might be divided in two main groups:

intensive farming – seeks to produce a maximum fish in a minimum of water





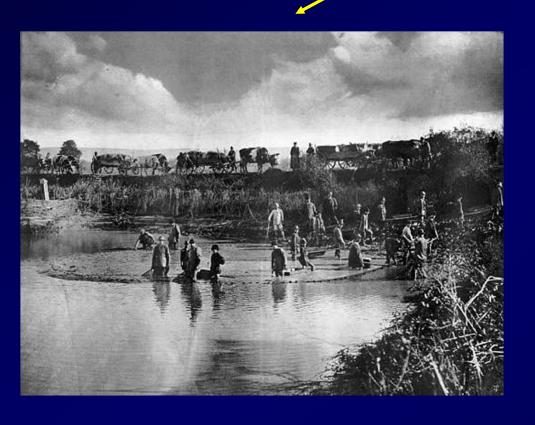
extensive farming – where obtaining a quantity of fish corresponds to natural productivity of pond



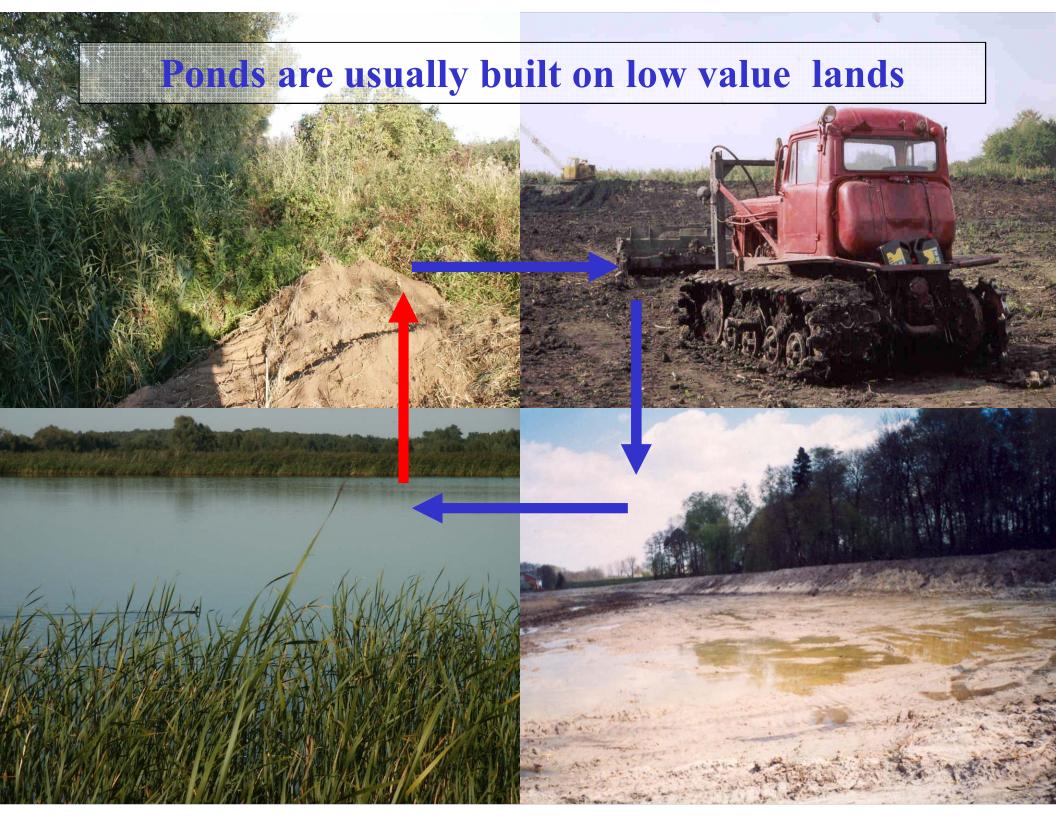


Extensive pond aquaculture

traditional and "modern"



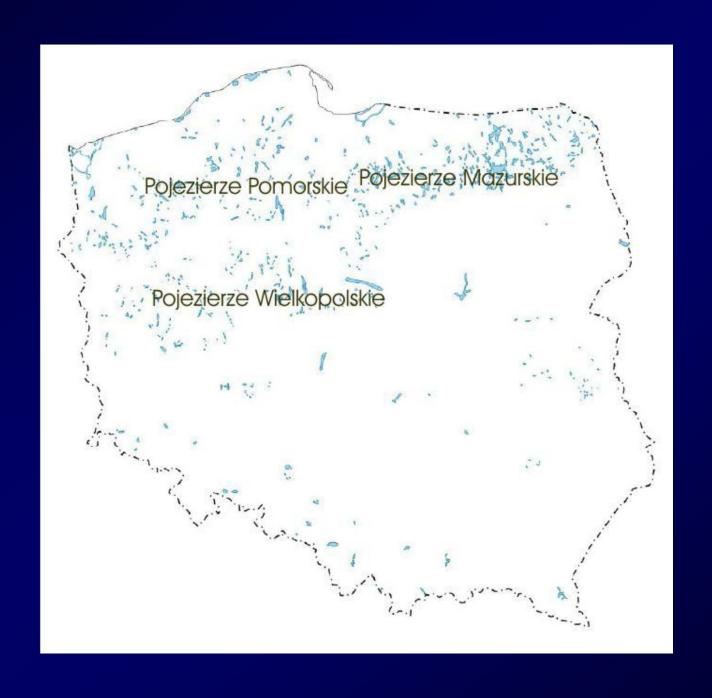




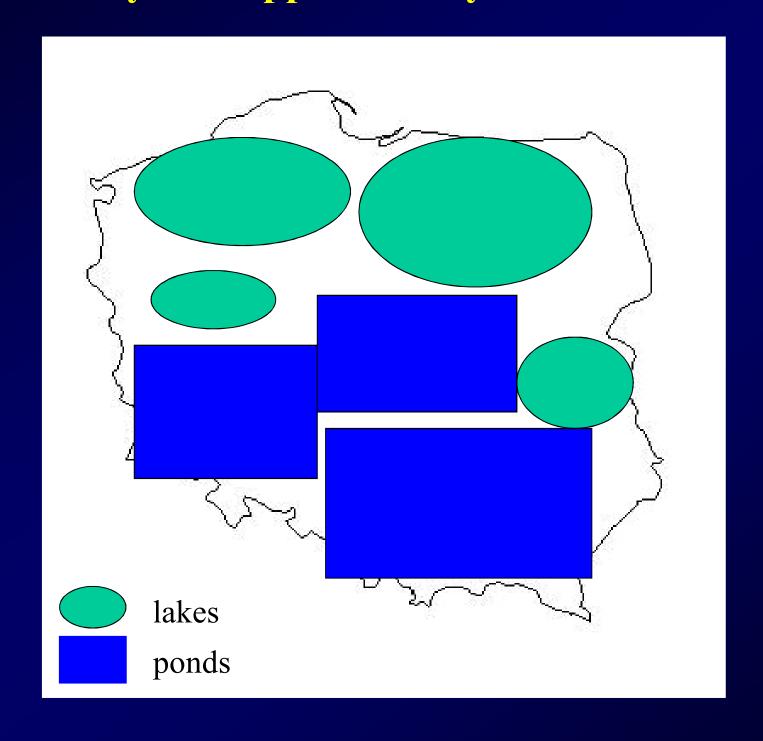
Ponds – located in different places – are very important components for every landscape as reservoirs of water

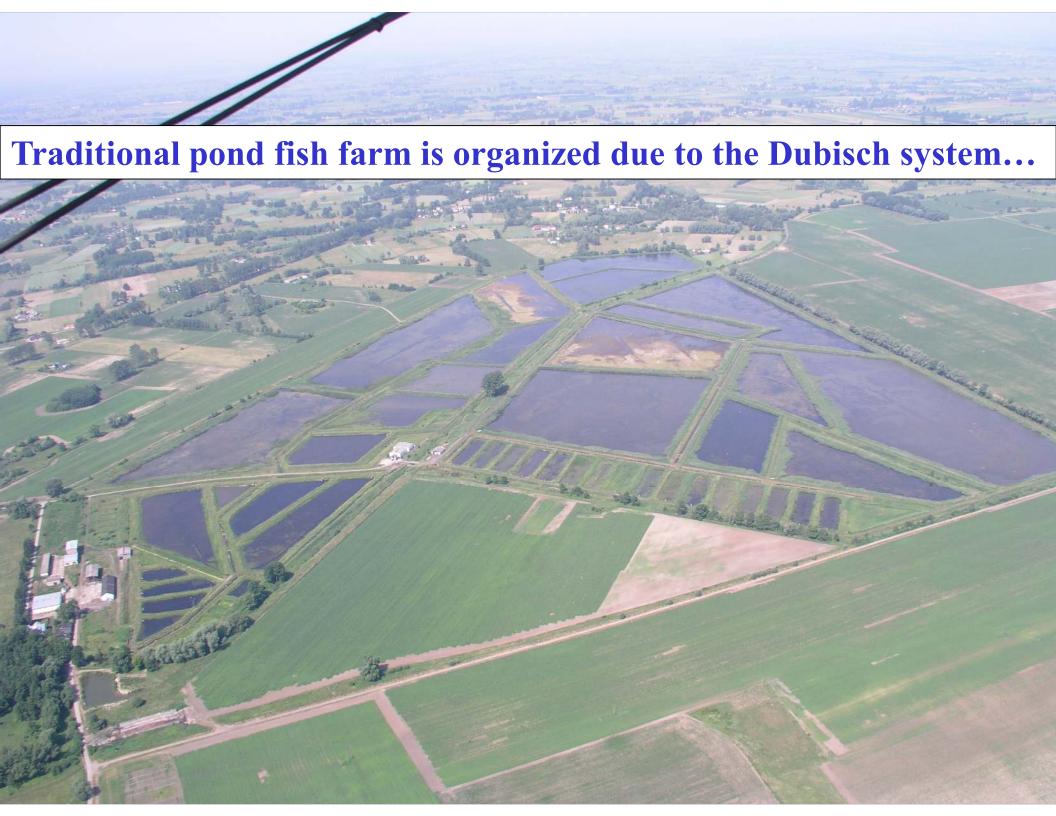


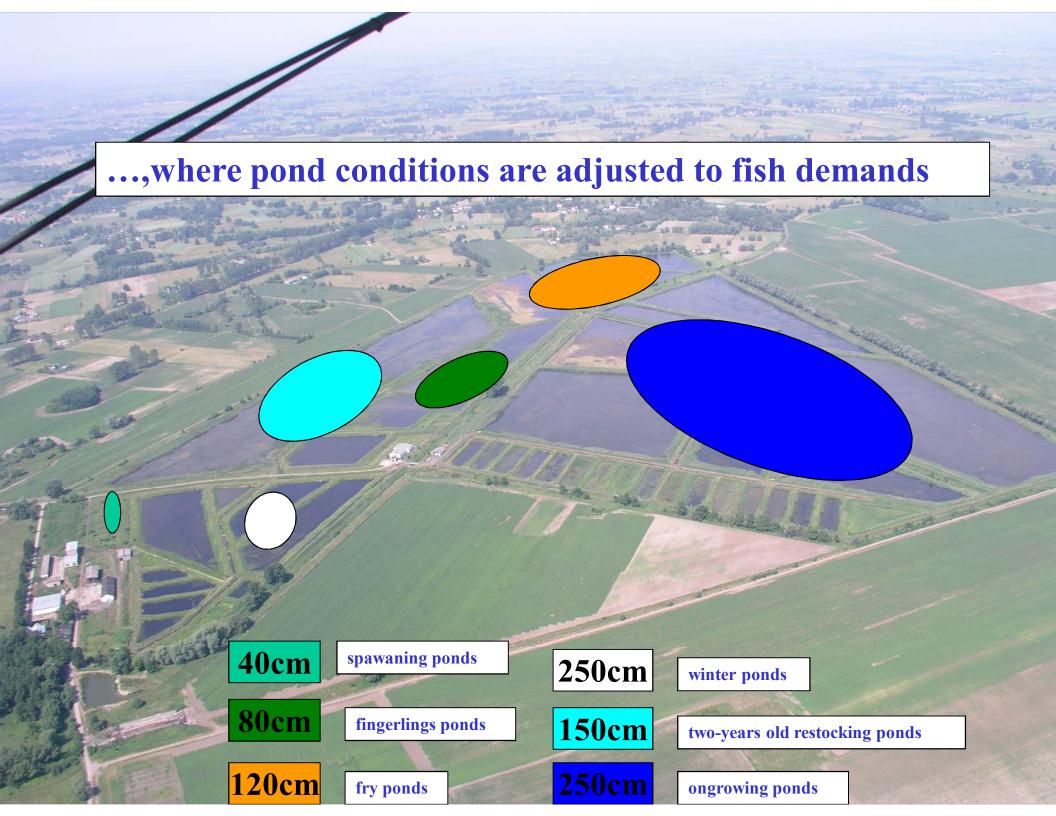
Ponds - usually are supplementary to natural water bodies

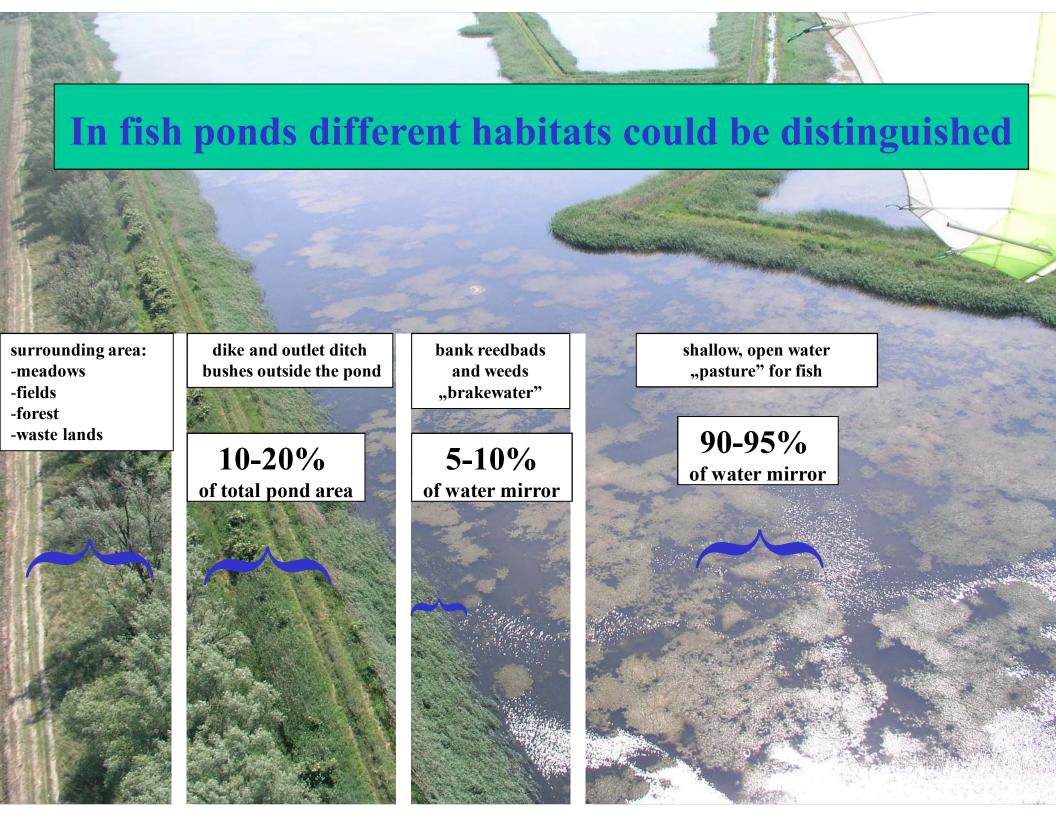


Ponds - usually are supplementary to natural water bodies











Gołysz Ponds (1500ha)
2105 species of plant and animal species recorded,...

Siemińska A, Siemińska J. 1967.

Stawinoga Ponds (74 ha)
160 species of birds recorded,...

Dobrowolski et al.. 1995.

and this is due to the traditional aquaculture only!



