

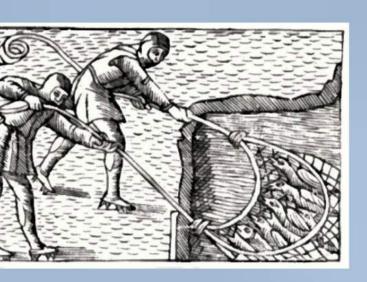
# Sustainable carp farming and the Water Framework Directive

Sustainable Aquaculture workshop (20th / 21st May 2014 - Vienna) Ferenc Lévai



#### The short history of pond fish farming

- Roman times: carp was grown in specially built ponds in South-Central Europe
- Domestication spread by monks between the 13th and 16th centuries
- Purpose built ponds were created to grow food fish









### The short history of pond fish farming

- · Related activities
- Irrigation
- · Terrestrial animal keeping
- · Water mills
- · Hunting
- Reed harvesting



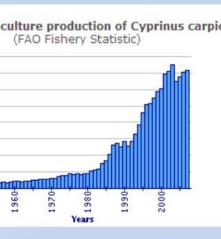


#### The Significance of pond farming

- · Economic
- · Social Rural livelihood
- Ecological
- · Historical





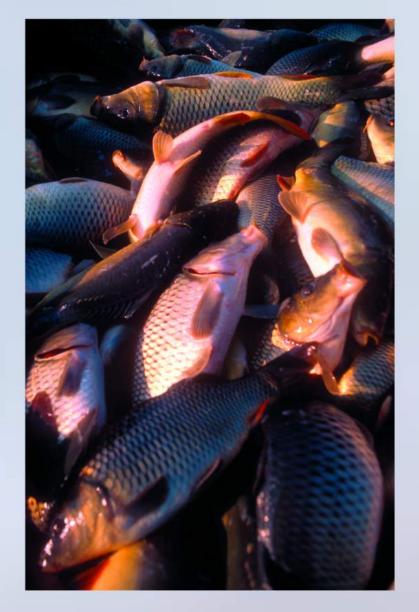




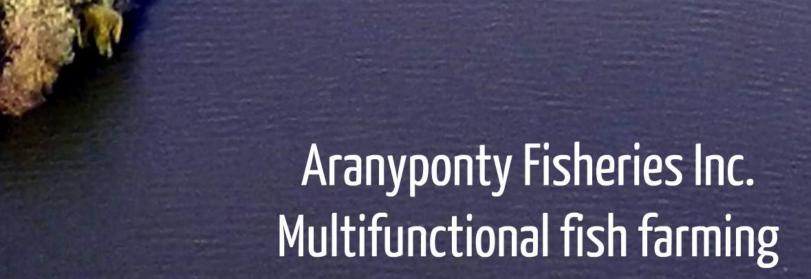


#### Present status of carp farming

- · Carp as food fish
- Present volume of production (70000t)
- Environmentally conscious production
- · Fish meal free production
- New goals and development opportunities







· Full scale fish farming

• appr. 1400 ha of fish ponds

· main farm: Rétimajor

• appr. 1500 t of production





# Multifund

- · Full Scale fish farming
- · appr. 1400 ha of fish ponds
- · main farm: Rétimajor
- · appr. 1500 t of production



### Fish Production - Aquaculture

- hatching
- fingerling production
- market size fish production





#### Environmental services

#### Protection:

- · Ramsar
- · Natura 2000
- Duna Ipoly National Park



- · water management
- biodiversity
- · water quality













## Eco Tourism in Rétimajor

- Traditional fish restaurant, gastro-tourism
- wide range of accomodation
- · wellness center beach
- social events fish festival
- guest services bicycle rental, miniature sailboats, etc.
- · conferences, workshops, training









# Locally produced vegetables, fruits and meat

- Chemical free fruits and vegetables for local consumption
- · Cattle and waterbuffalo rearing

· Social aspects - market for local producers



#### Water Framework Directive

Carp farmers are regarded as polluters despite that:

- purification effects
- phosphorus an nitrate retention
- water retention services
- positive effects on wetland habitats
- increased biodiversity
  are proven FACTS





