

Brokerage Event

Food Security | Sustainable Agriculture and Forestry |
Marine, Maritime and Inland Water Research |
Bioeconomy | KET-Biotechnology |

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Sustainable Food Security

wiwa!

(wild, in landscape, waters, aquaculture and terrestrial farming)

Nerina Baldi

Head of tourism service and economic development

Commune of Argenta



www.ncp-biohorizon.net

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The expertise possessed: 2014-15 first research in Campotto Marshes (Ramsar 1991), monitoring inland freshwater; idiogenic plants and native fish.

Project idea / objectives: promote Campotto Marshes, the 6th station of Po Delta Park:

- a) **aquaculture and research, safeguarding the autochthonous ichthyic fauna**, such as Italian pike and tench, endangered by exotic species like the omnivorous *Silurus glanis*
- b) **link nursery plants with aquatic habitats** to grow these species in nature
- c) **wild edible herbs for gastronomy and medicinal research** (officinale)

The existing partnership / consortium (currently all-Italian): **Commune of Argenta (coordinator)**, addressing bioeconomy and sustainable development policies between public and private actors; **University of Ferrara**, direct research; **Po Delta Park**, biodiversity; **Consorzio della Bonifica Renana**, the hydraulic authority of the vast area from Apennines to Campotto, where waters arrive in the race to the Adriatic Sea; **small entrepreneurs and farmers** for production chains

Requirements: 2-3 additional partners from EU Member States; we are also available as a partner in other consortia



Priority:

1) Resilient farming systems: aquaculture in freshwater, connecting the nursery fish farms with natural aquatic habitat;

a) extreme weather - monitor climate changes that influence the health of autochthonous fish species, resilience and reproduction

b) risk management - contrast the aggressiveness of exotic species in aquatic habitats; study pollutants from large-scale agriculture in water; introduction of barriers to chemical fertilisers

c) landscape design - improvement of the aquatic plant communities as a refuge and nursery for ichthyic fauna; creation of islands/gardens of wild herbs to beautify the landscape and for food use

Alternatives:

2) Terrestrial and aquatic livestock (find mutual practices not necessarily the same farming and area profiles)

3) Sustainable European aquaculture: nutrition and breeding

Relevant past / ongoing projects:

Three 'Life Nature' projects: 1994 - Biodiversity; 1996 - "Birds" (ornithofauna); 2003 - "Habitat" (minor fauna, bats, reptiles and amphibians)

Cultura 2000: 2004 - Water engineering, coordinator Norrköping Municipality (Sweden)

Rural Development Programme of Emilia Romagna Region and LEADER funds: 2013 -2017 interventions in water economy, wild landscape care, natural routes, depopulation of rural areas





Nerina Baldi

Tel.: +39 329 832 3764 n.baldi@comune.argenta.fe.it

Comune of Argenta (FE)

Public authority, local government organisation

Tel.: +39 5323 30248 www.comune.argenta.fe.it

Country: Italy

Region: Emilia Romagna

For more information about the first phase of research in the Campotto Marshes (2014-2015) visit:

<http://www.comune.argenta.fe.it/44/964/area-riservata/wiwa>