

Contributing to a necessary revision of production systems that must be efficient, profitable, respectful of the environment and integrated into the territories



New strategies for the construction and management of pond production systems for sustainable fish farming

Program objectives

To propose new practices for pond fish farming

A central theme: Defining the composition of the polyculture

- ➤ To produce in a more sustainable way
- ➤ Adapted to the diversity of the contexts (modalities of realization of the polycultures)
- > Taking into account all the biological compartments of the ecosystem

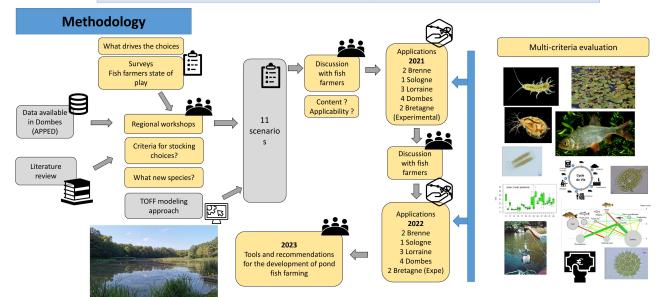
Our working method

A work of co-construction with the actors of the sector

- A multidisciplinary approach to address the complexity of interactions between pond compartments
- > The introduction of the notion of ecosystem services to discuss the vocation of fishponds
- The explicit consideration of biodiversity in the functioning of fishponds
- > To help build new solutions, modeling approaches

Program ambition:

To go as far as **recommendations** and **practical tools** for fish farmers.



First results

Sites	Surface (ha)	Fish polyculture scenarios	Stocking (kg/ha)	Yield (kg/ha)
S01	2.2	C. Carp - Orfe - Pike	110	30
L04	2.1	Roach - Rudd - Pikeperch	80	86
D02*	9.4	Roach - Tench - Pikeperch - White Sturgeon	76	145
L01	1.4	C. Carp - Tench - Roach	100	197
L03	4.1	Roach - C. Carp - Grass Carp	266	295
B01	12	Tench - C. Carp - Pikeperch	91	336
D01*	3.4	White Fish - Tench - Black Bass	76	336
Bx1	0.1	C. Carp - Roach - Tench - Pikeperch (claustration)	115	404
Bx2	0.1	C. Carp - Roach - Tench - Pikeperch (open)	115	410
B02	0.8	Roach - C. Carp - Grass Carp - Black Bass	74	435
D04*	6	White Fish - Tench - C. Carp - Grass Carp - Black Bass	156	542
D03*	3	White Fish - C. Carp - Grass Carp - White Sturgeon	272	625

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Without feeding





: Limit of 200 kg/ha



* Fertilization