INNOVATION SERVING AQUACOLTURE

National aquaculture produces 140 thousand tons a year of fresh produce, which contributes about 40% of national fish production and about 30% of the demand for fresh fish products. Italy, like Spain and France, concentrates its production mainly on mollusc farming: it is the main producer country of the EU of clams Ruditapes philippinarum, with 94.2% in volume and 91.6% in value. It also covers two-thirds of Community aquaculture production for mussels and represents 45% of sturgeon production and 20% of rainbow trout. Emilia Romagna and Veneto represent about 50% of national production, followed by Friuli Venezia Giulia (13%), Puglia (9%) and Lombardy (4%).

GOALS

- Characterisation of the marine environment: control and monitoring of variables using in situ and remote technology; environmental impact assessment studies
- Optimization of aquaculture production and reduction of waste from a circular economy perspective; innovative strategies for waste recovery in aquaculture
- Calculation of the environmental footprint for aquaculture products and activities

INSTRUMENTS AND METHODS
Multiparametric probes, water and sediment analyses, optical and electronic microscopy

SUBJECTS
Ecology, Analytical and Environmental Chemistry

WORKING GROUP
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COLLABORATIONS
The research group has internal collaborations in the Department and at the University (Physical and Earth Sciences), has numerous national collaborations (University of Bologna, Istituto Delta Ferrara, Organizzazione Produttori Goro, Coldiretti) and international (National Institute of Biology, Slovenia; Hellenic Center for Marine Research, Greece)