

ITACA - Innovative Tools to increAse Competitiveness and sustainability of small pelagic

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AGRICOLTURA



Duration: 30 months, from 01.01.2019 to 30.06.2021

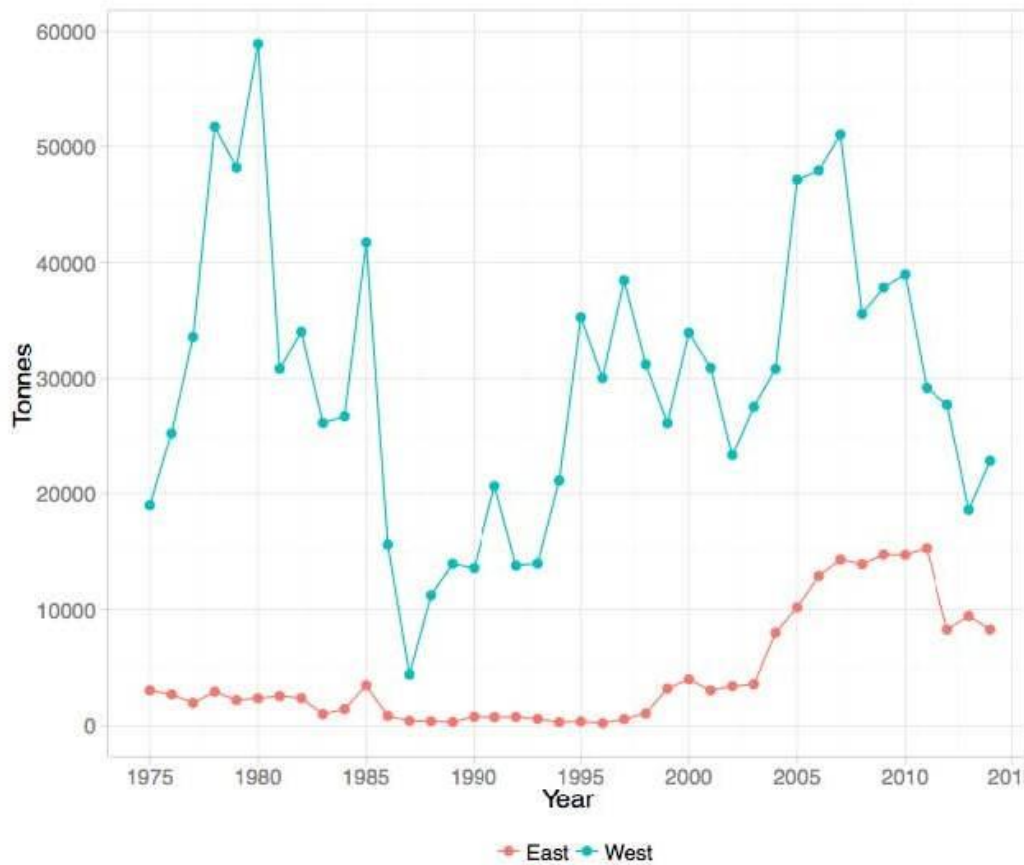
Overall budget : 1.744.467 €

Axis 1 – Blue Innovation

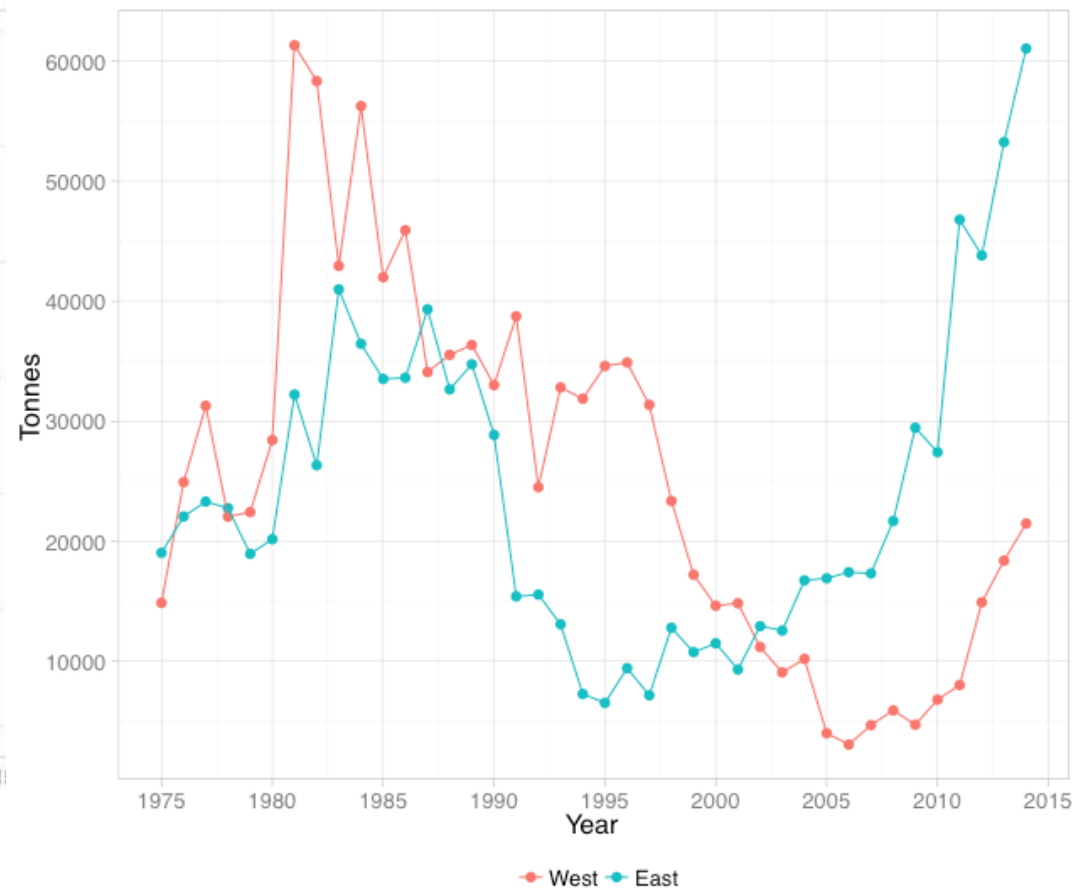
Specific objective: 1.1 - Enhance the framework conditions for innovation in the relevant sectors of the blue economy within the cooperation area.

SCENARIO

CATCHES OF ENGRAULIS ENCRASICOLUS



CATCHES OF SARDINA PILCHARDUS



MANY CONSTRAINTS AFFECTING THE SECTOR.....

INTERNAL ECONOMIC CONSTRAINTS

- Uncertainties in market demand and in price
- Uncertainties in competitors capacity
- Low power of firm production in the overall ichthyic chain

EXTERNAL CONSTRAINTS

- Regulatory framework
- Environmental pressure

NEED TO EMPOWER THE
SP FISHERIES SMEs

ITACA TARGET

small pelagic fisheries SMEs of Italian and Croatian coasts

+

ITACA APPROACH

increase of market opportunity

innovation of process

environmental but mostly socio-economic sustainability of the sector

=

Cluster among the Adriatic SP Producers Organisation (P.O.)

ICT system (software) oriented to operators to set up productive and market strategies

Demand/Offer control with consequent safeguard of SP fisheries stocks

Increased return/turnover in SMEs balance and improved capacity of SMEs to affect the market

OUTPUTS

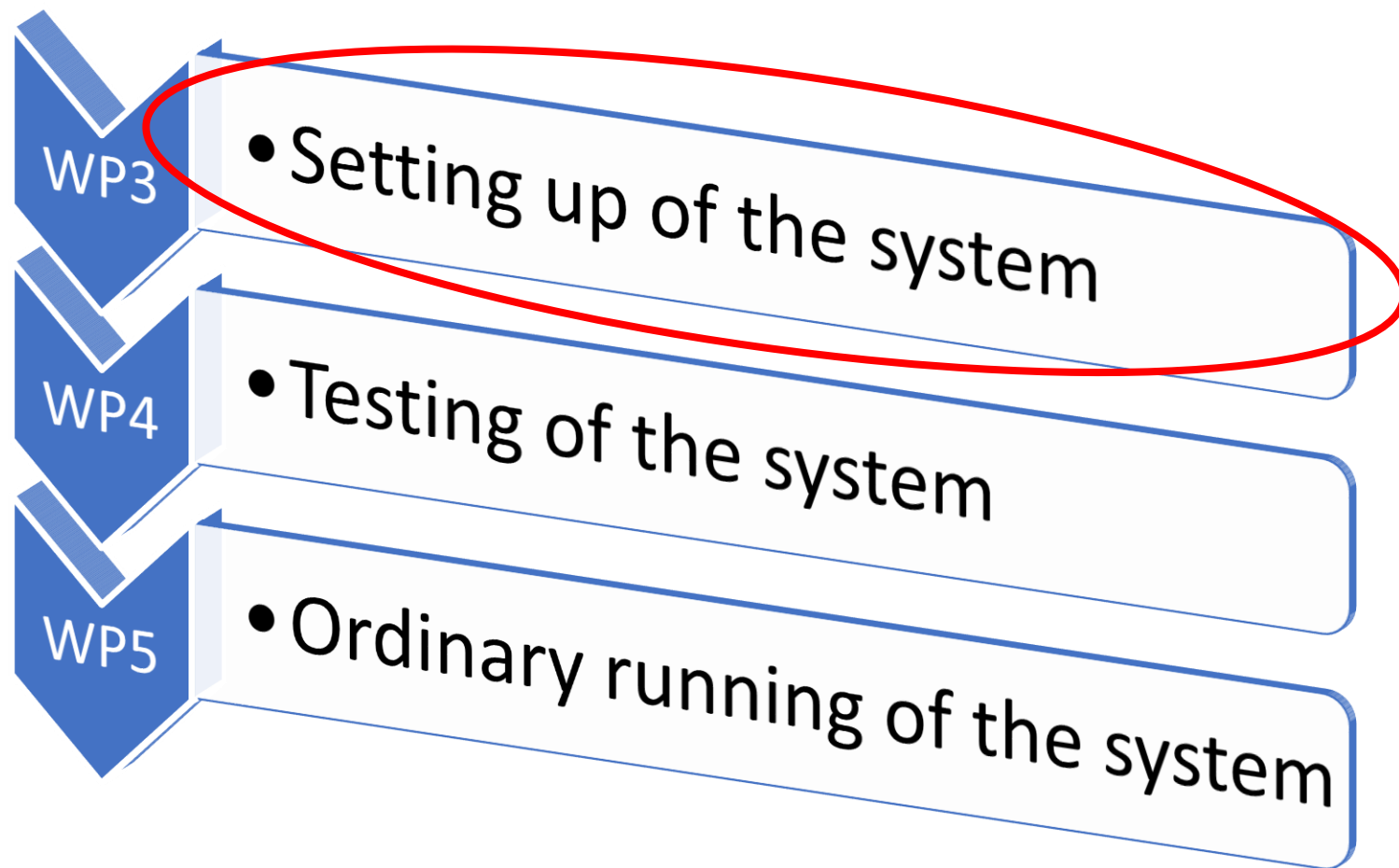
RESULTS

>>> LONG TERM EFFECT:

an improved balance between economic vitality and enviromental sustainability in the SP fishieries

Project overview

WP1 - Project management
WP2 – Communication & dissemination



INPUT DATA:

- Ecological
- Biological
- Market (ichthiyic)
- Socio-economic
- SMEs

ECONOMETRIC MODEL

SETTING of the
ICT SYSTEM

WP3

1

TRAINING

TESTING of the
ICT SYSTEM

ASSESSMENT AND FINE
TUNING

WP4

2

EDUCATION

CLUSTERING
(governance of the
ICT system)

FOLLOW UP INTO THE
MARKET

WP5

THE ITACA MODEL - STRATEGIC FEATURES

- >>> Oriented to entrepreneurs and market organizations, **to plan effectively the fishing activities**, assigning a correct role to economic factors
- >>> Specifically focused on small pelagic catches and market, on both sides of the Adriatic sea, providing suggestions for the **optimization of catches** (in the economic perspective)
- >>> Can **predict market price**, thus allowing fishing firms to make effective budgets that otherwise will be unstable

INTERMEDIATE AND FINAL GOALS: A SUMMARY

Intermediate goal

- to identify the price formation on the Adriatic small pelagic markets, selecting the variables which impact on it

Final goal

- to define a tool for the management of the small pelagics, creating a synergy between markets according to public regulatory instruments

Result on framework conditions

- resulting governance model allows to simulate alternative strategies
- more effective management of catches even for the reproduction of the biomass

COLLECTION OF DATA AND RULES

DAILY CATCHES BY SPECIES AND BY MARKET, YEARS 2018-2019

DAILY REVENUES (OR AVERAGE PRICES) BY SPECIES AND BY MARKET, YEARS 2018-2019

3-4 ANALYTICAL BUDGETS OF COMPANIES DEDICATED TO SMALL PELAGICS, BY MARKET, YEARS 2018-2019

RULES THAT APPLY IN THE PARTNERS COUNTRIES

THE TYPOLOGY OF THE DATA REQUIRED

DAILY DATA

- >>>> markets operate on a daily basis and the invoicing of the fish enterprises comes from single daily contracts, not from weekly or monthly summary
- >>>> the need to have the most accurate assessment tools

A simulation of a 10% reduction of the quantities, carried out with a preliminary model, on a single market and on a limited period, shows that replacing daily data with average data can lead to large errors.

ENVIRONMENTAL CONSTRAINTS

ENVIRONMENTAL MODULE

- >>>> A quasi real time estimation of the cumulative total landings of *Engraulis encrasicolus* and *Sardina pilchardus*.
- >>>> Short term forecasting of the average length/weight of the two species, based on the assimilation of satellite data and observed length/weight classes.


Contacts


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