BIOBANKING: THE PRESENT AND FUTURE OF FRESHWATER AND MARINE SAMPLING COLLECTIONS

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Differences between repositories and biobanks
The term "biobank" first appeared in the scientific literature in 1996 and for the next five years was used mainly to describe human population-based biobanks.
BIOBANKS: SAVING YOUR PARTS
What we pretended from the onset?
BIOBANKS Infrastructure successfully used in clinical research (about 100 hospitals in Spain), which functioning is regulated at European level.

MANAGEMENT SYSTEM to assure the accessibility to biological samples and associated data with traceability, quality order and destination criteria.

CAPITALIZATION OF BIOLOGICAL SAMPLES as marine ecosystem components as production factor of goods and services based on a donation/cession of samples system.

New target on RESEARCH COLLABORATIVE PARTNERING in marine science.
Within this framework, the general objective of the project is – through risk assessment – to provide insight, upgraded know-how and new technologies in order to mitigate the impact, to industry and consumers, of zoonotic parasites present in fishery products in the European market.
OBJECTIVE

• GET TRACEABLE SAMPLES AND ASSOCIATED DATA FOR THE PRESENT AND FUTURE RESEARCHES

• TO OBTAIN A HEALTHIER MARINE ECOSYSTEM, NOT TO ACT AGAINST FISHERMEN

Reforming European Fisheries. For the future of fishermen and fish.
http://ec.europa.eu/fisheries/reform
The biobank proof of concept was made using zoonotic parasites.
We developed a software to be used, not only to create parasite biobanks but other marine samples.
It is guaranteed for the manufacturer that there are not two tubes in the world with the same encoding.
Questionnaires with data are designed specifically for each biobank.
Sample storage
The samples are stored at low temperature (ultra low freezer, -80º), which includes Backup and Alarm Security Systems.
The biobank data can be easily exported to XL files and thus can be used for different purposes…
ACTUAL CHALLENGE
Thanks for your attention