

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

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Differences between repositories and biobanks







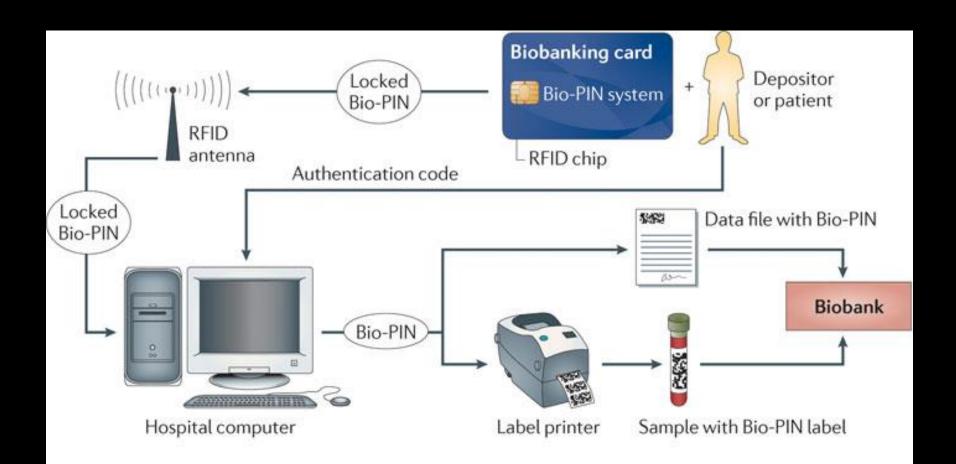


The term "biobank" first appeared in the scientific literature in 1996 and for the next five years was used mainly to describe human population-based biobanks

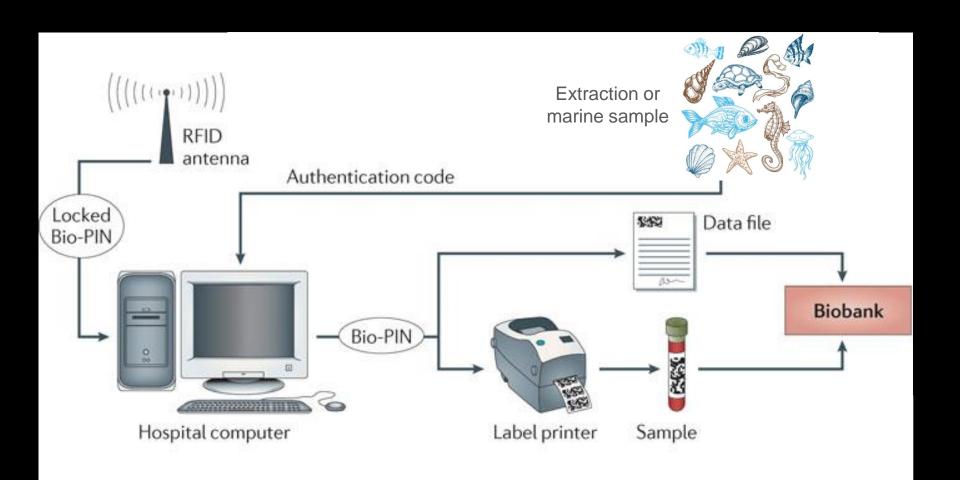


BIOBANKS: SAVING YOUR PARTS

- WHY YOUR JOB IS YOUR MOST VALUABLE ASSET
- REPURPOSING THE SUBURBS
- **BIOBANKS: SAVING YOUR PARTS**
- THE NEW CALVINISM
- ECOLOGICAL INTELLIGENCE
- **AMORTALITY: FOREVER YOUNG**
- AFRICA: OPEN FOR BUSINESS
- REINVENTING THE HIGHWAY



What we pretended from the onset?

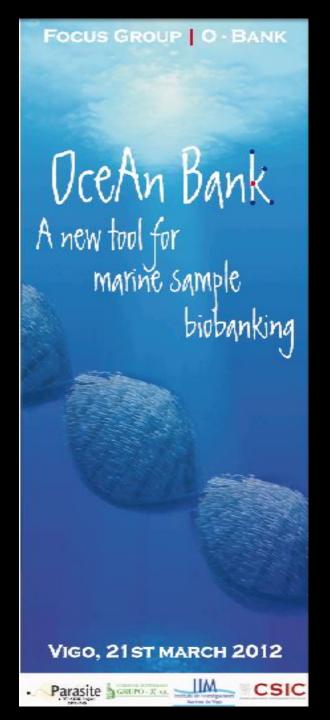


BIOBANKS Infrastructure successfully used in clinical research (about 100 hospitals in Spain), which functioning is regulated at european level.

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 COLABORATIVE PARTNERING in marine science





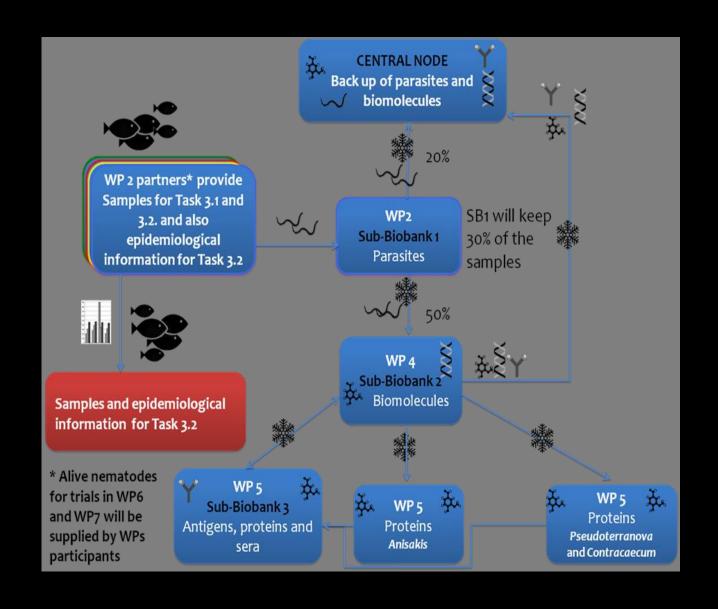
Within this framework, the general objective of the project is – through risk assessment – to provide insight, upgraded know-how and new technologies in order to mitigate the impact, to industry and consumers, of zoonotic parasites present in fishery products in the European market.

OBJECTIVE

- GET TRACEABLE
 SAMPLES AND
 ASSOCIATED DATA FOR
 THE PRESENT AND
 FUTURE RESEARCHES
- TO OBTAIN A HEALTHIER MARINE ECOSYSTEM, NOT TO ACT AGAINST FISHERMEN

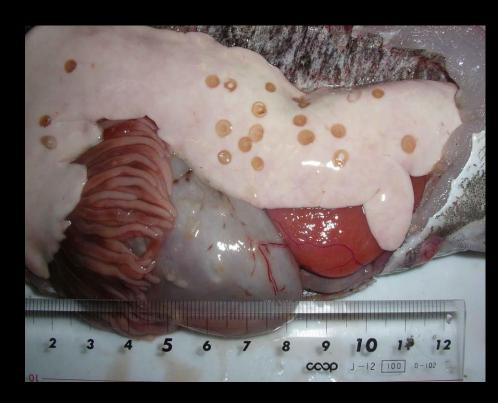


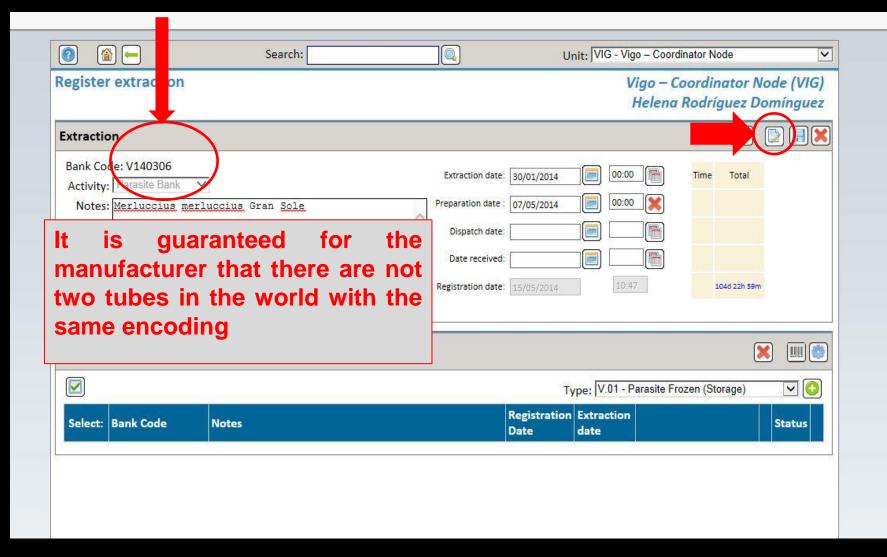
The biobank proof of concept was made using zoonotic parasites



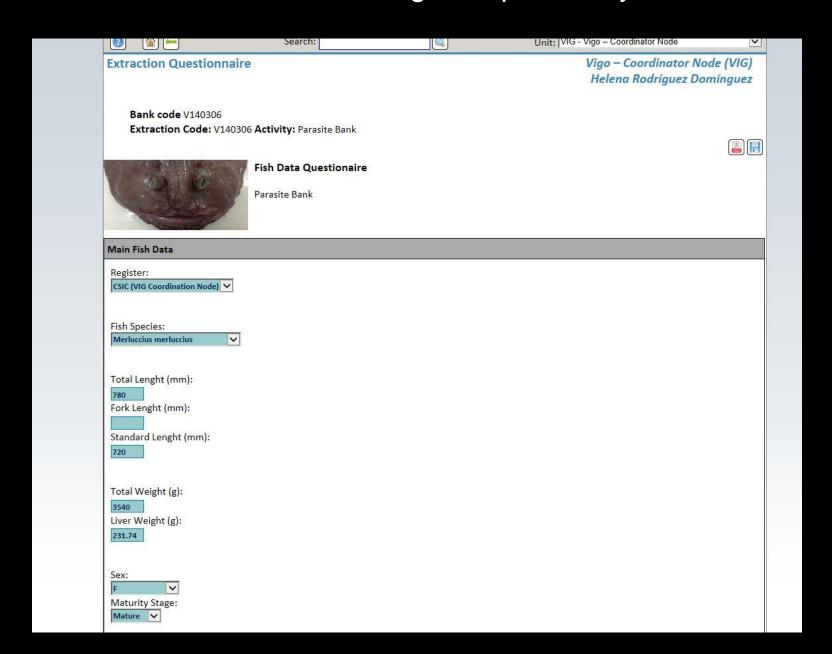
We developed a software to be used, not only to create parasite biobanks but other marine samples



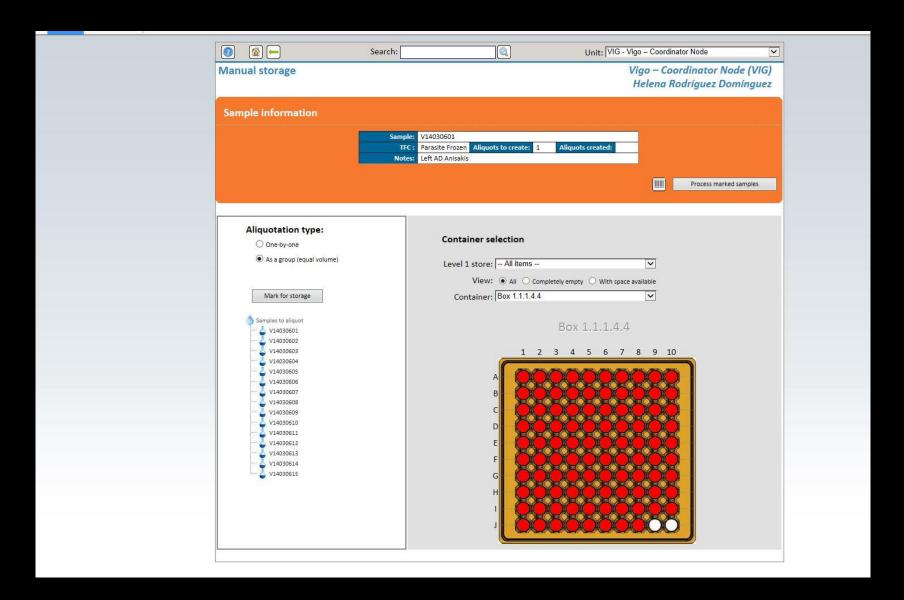


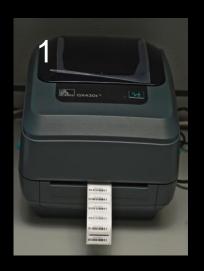


Questionnaires with data are designed specifically for each biobank



Sample storage







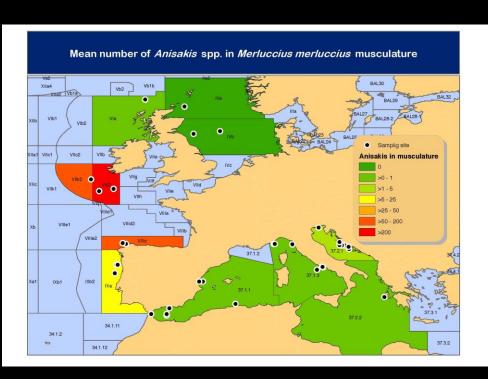


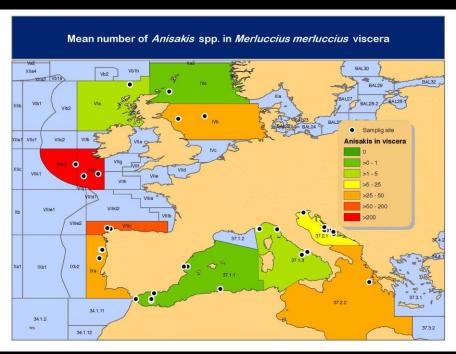
The samples are stored at low temperature (ultra low freezer, -80°), which includes Backup and Alarm Security Systems.





The biobank data can be easily exported to XL files and thus can be used for different puroposes...







ACTUAL CHALLENGE

Parasite







Thanks for your attention