

Recent past and projection of salmon farming

Innovation and entrepreneurship

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THE LAST TEN YEARS



LESSONS



- Vulnerability of bodies of water with high concentration of biomass.
- Environmental root of fish health problems
- Weakness of environmental knowledge to manage bodies of water in their merit
- Emphasis on treatments with high use of drugs and chemicals: costly, ineffective and leading to loss of prestige
- Obvious need for biosafety regulations
- Need for R & D to develop vaccines and other preventive products and procedures
- Need to use less marine animal input

LESSONS



- ▶ Industry recognized but not loved
- ▶ With little support in social base and therefore without political weight
- ▶ Responsible for environmental damage: coastal pollution, events of harmful algal blooms, excessive use of antibiotics and antiparasitics.
- ▶ Gradual adhesion of workers, especially after the crisis (cost of unemployment was clearly perceived)

CONSEQUENCES AND ACHIEVEMENTS


- More Strict regulation, although tentative, based on scarce local-based science.
- More Biosecurity. Rest periods, control of eggs, etc.
- More good practices and independent certifications.
- More R+D+I since the ISA onwards: Centers of excellence, more programs and projects, Strategic programs
- Dramatic Reduction of pelagic fisheries inputs, better conversions, more efficient production.



FUNDAMENTAL CHALLENGES

- ▶ Use and zoning of bodies of water based on their carrying capacity and relationship with other economic activities
- ▶ Better relationship with the community, with shared value criterion
- ▶ More science to support better production technologies, use of the environment and regulations.
- ▶ Strengthening of human capital and technologies aimed at improving competitiveness and sustainability of the industry





WE NEED TO STRENGTH INNOVATION AND ENTREPRENEURSHIP TO FACE THESE CHALLENGES

- ▶ Trust is basic to innovate
- ▶ Creation of social capital: industry, academia, technology centers, civil organizations, authorities ...
- ▶ Technological program a starting point; consortium of supplier innovation.
- ▶ Construction of Innovation and entrepreneurship agenda, science, technology, social sciences

SUPPORT FOR INNOVATION AND ENTREPRENEURSHIP

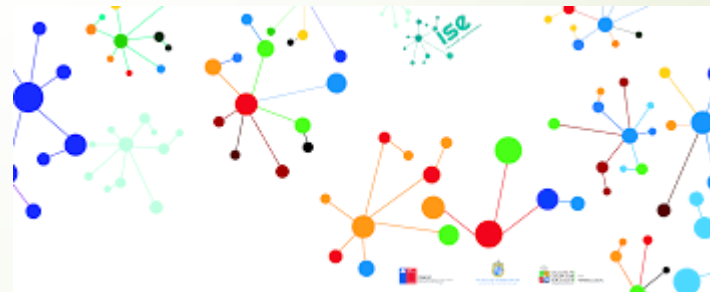
- Use of the ecosystem of innovation and regional entrepreneurship
- Use of co financing funds
- Sectoral capital and start up capital



INNOVACIÓN Y EMPRESARIADO

ACTIONS WITH MULTIPLIER EFFECT

- Installation of Innovation Culture in companies
- Training of human capital for innovation Clubs, Consortiums and Open Innovation Challenges and Tournaments



AN ESSENTIALLY COLLABORATIVE ACTIVITY

► TRUST SOCIAL CAPITAL COLLABORATION



- ... Essential to face the challenge of achieving an industry with higher levels of innovation entrepreneurship, a path that must be strengthened



THANKS

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