







![](_page_0_Figure_5.jpeg)

![](_page_0_Figure_6.jpeg)

# Aims and steps

### Project aims

- a) To improve habitat conditions for lobster b) Widening market.
- c) To improve fishermen skills (fishing and administrative).

- The steps a) Identify the better type of bottom to place artificial habitats- monitoring diving, interviews.
- c) Follow up of the placement and colonization.
- d) Recording of places were casitas were placed.
- b) Promote courses: selective fishing; diving skills, packing live lobster.

![](_page_1_Picture_11.jpeg)

![](_page_1_Picture_12.jpeg)

![](_page_1_Figure_13.jpeg)

![](_page_1_Picture_14.jpeg)

![](_page_1_Picture_15.jpeg)

![](_page_1_Figure_16.jpeg)

![](_page_2_Picture_1.jpeg)

currently: The cooperative had generated new jobs in the community, had gotten funds for more projects, had increased their capital and had pay their debts.

# Follow up

- Casitas were placed between 5 to 10 m as indicated, some casitas misplaced or broken.
- Colonization of casitas within three months.
- Bad year in 2006 low catches, but improved the next year- there is high variation in landings, but fishers indicated that the casitas can concentrate high amount of lobsters at the beginning of the season.
- Team members from community now generate their own projects.
- In Celestun cooperative members improved in several ways (infrastructure, economic performance, social organization).
- · Lobster still sold as tail, searching for markets.
- · Not control on diving habits- decompressions not totally under control.
- There was not a follow up on the trends of catches in casitas vs natural habitats

# Factors that contributed to success to the program

- Fishers were involved since the beginning:
  - Participation in study for diagnosis
  - Participation in the generation of proposal
  - Participation in the study for mapping the bottom- community members were integrated as part of the research team
  - Contributed with money and time for implementation of the project
- Good organization of fishing cooperatives and high participation of its members in the project.
- · Previous contact of researchers with fishers that generated trust.
- · Government officials with open and supportive attitude.

# Implications

- Ecological
  Improved habitat conditions in the area
  facilitating lobster protection and increasing
  biomass.
- <u>Economic</u> Allowed the maintenance of the lobster fishery (high value).
- Improved conditions for the fishery (fishing ground and infraestructure).
- <u>Social</u> Improved skills and the level of organization of groups, it also favored fishers' participation.

![](_page_2_Picture_26.jpeg)

![](_page_2_Picture_27.jpeg)