

Adaptive capacity of small-scale fisheries in coastal Uruguay: synergies between national policies and local perspectives

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IMBIZO6 - IMBeR



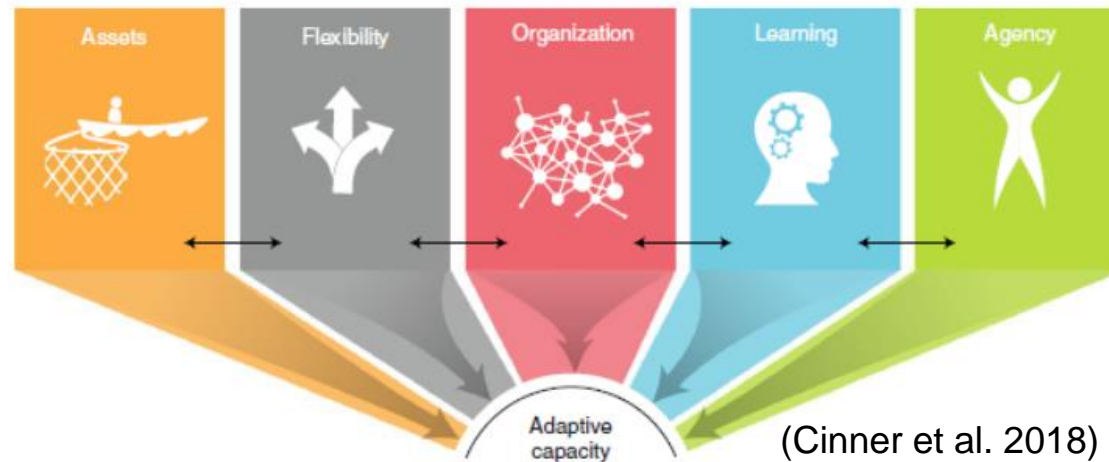


Context

SW Atlantic Ocean: changing currents; warming hotspot around the Río de la Plata, affecting Uruguayan fisheries

Adaptive capacity:

- Ability that allows humans, as individuals or as a group, to respond to changes and take advantage (Adger 2006)
- Capability to convert resources (human, social, physical, financial, and natural) into action (e.g. Couthard 2012, Cinner et al. 2018)





Objective

To assess the adaptive capacity (AC) of small-scale fisheries based on a local case study in Piriápolis (coastal Río de la Plata, Uruguay), investigating how AC variables interact with each other





Policy instruments at the national level

2013 – Fisheries Law

2017 – National Policy on Climate Change

2019 - National Adaptation Plan to Climate Change and Variability for Agriculture

- Marine/coastal Early warning systems
- Strengthening of fishers' associations
- Strengthening of Fisheries Local Councils (i.e., co-management boards)
- (among others)



Data collection and analysis

Semi-structured interviews (n=18) with small-scale fishers (May-June 2018)

Bayesian network analysis (*) to examine the interactions between the adaptive capacity variables:

1. Direct marketing
2. Livelihood diversity
3. Livelihood flexibility
4. Social capital with DINARA (National Directorate for Aquatic Resources)
5. Social integration
6. Quality of life

(*) Probabilistic graphical networks approach that examines the conditional dependencies (i.e. the interactions) between variables.

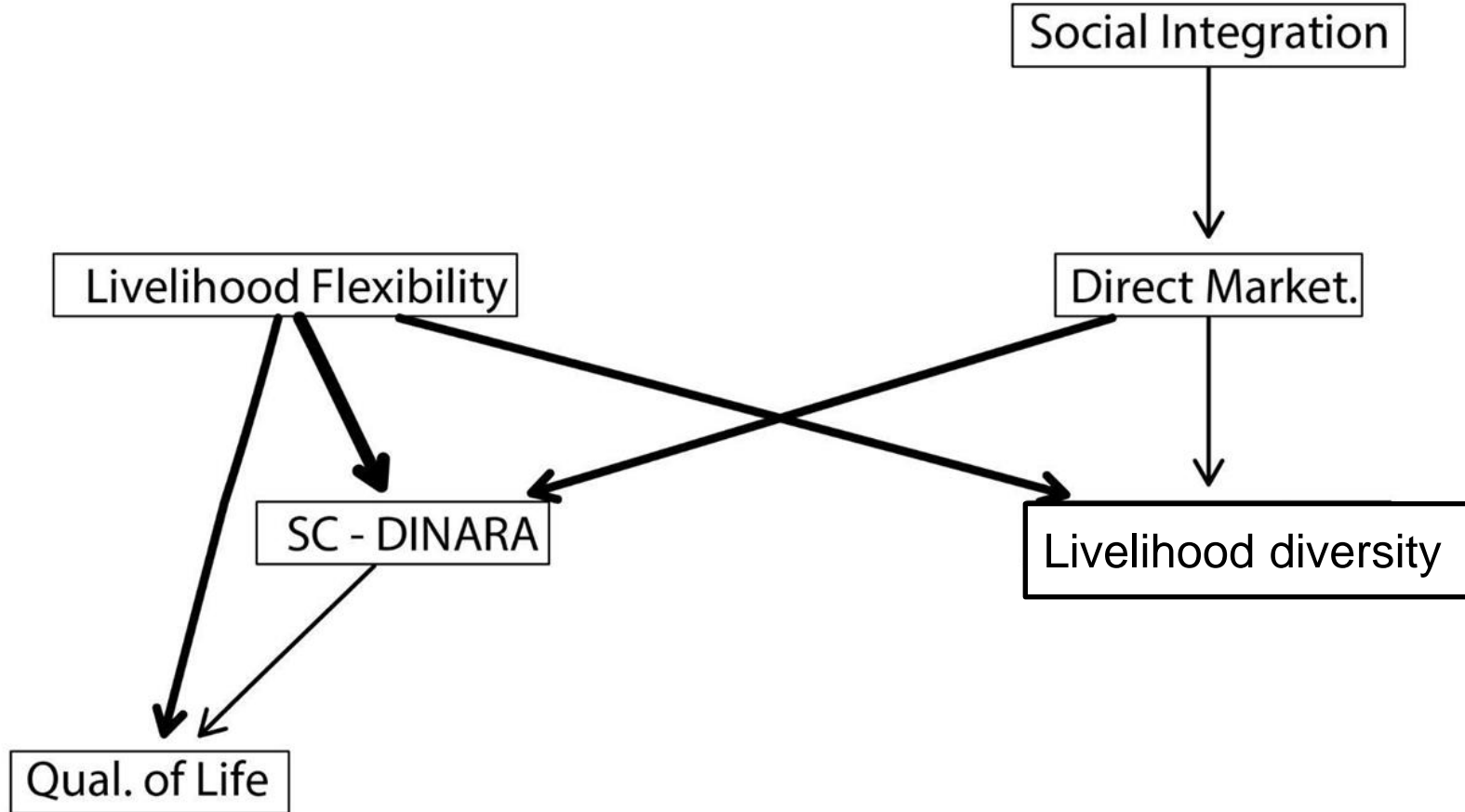


AC – Descriptive Results (preliminary)

AC variables	% of fishers
Direct marketing	33.3
Livelihood diversity	33.3
Livelihood flexibility	55.5
Social capital with DINARA	22.2
Social integration	72.2
Quality of life	55.5



Bayesian Network Results (preliminary)





Conclusions

- Adaptive capacity variables interact with one another, and the interaction between them shapes the overall adaptive capacity of fishers (which appears to be “medium” in this case).
- Our findings demonstrate the importance of considering multiple variables simultaneously when crafting policies or conducting adaptive capacity assessments.

Thanks! Gracias!

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