

Socio-economic analysis of the results of implementing a rights-based management system in a small-scale fishery in the Gulf of California: the gulf curvina

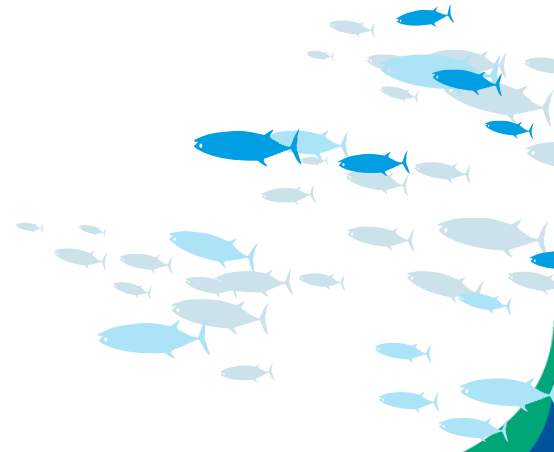
NAAFE Forum 2017

La Paz, BCS

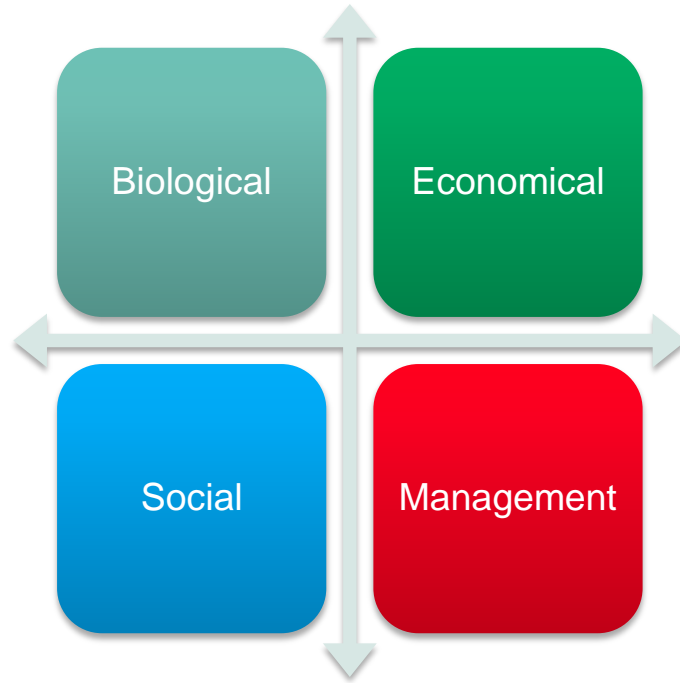
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About gulf curvina

- Upper Gulf of California (Aggregation)
- 4 communities (Cucapah)
- Feb-May (Spring/Lent)
- Since 2012, RBM
- + 4K MT, 14.7 pesos/kilo
- TAC allocated to 739 authorized pangas
- Curvina Regional Committee (Governance)
- Vaquita, Totoaba, MPAs, etc.



RBM goals





Some (economic) impacts of catch shares in gulf curvina



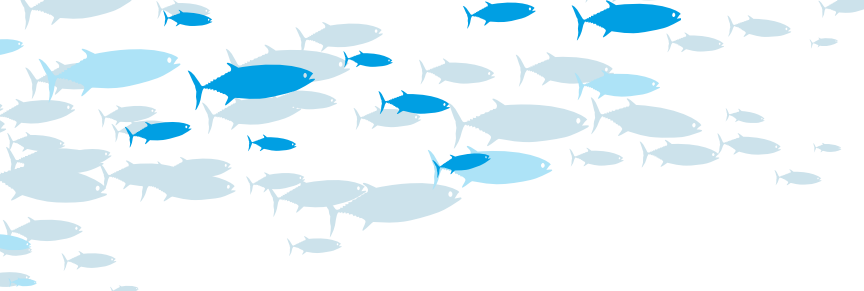
Gulf Curvina Fishery Annual Performance

Variable (source)	Before catchshares management						With catchshares management					
	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015*	2016*	
Management plan							Published					
Catch limit (1)							2,300 Ton	2,700 Ton	3,539 Ton	3,790 Ton	3,602 Ton	
Swim bladder "buche" limit (1)									81 Ton	80 Ton	90 Ton	
Vessel individual quota (1,2)								5.27 Ton	5.72 Ton	5.10 Ton	5.10 Ton	
Landings (3)	707 Ton	4,207 Ton	4,573 Ton	4,914 Ton	5,930 Ton	4,373 Ton	2,583 Ton	4,001 Ton	3,524 Ton	4,583 Ton	4,463 Ton	
Ex vessel price (4)	N/A	N/A	N/A	N/A	N/A	\$10.70 pesos/kilo	\$17.91 pesos/kilo	\$14.55 pesos/kilo	\$13.12 pesos/kilo	\$11.37 pesos/kilo	\$12.41 pesos/kilo	
"Buche" price (4)	N/A	N/A	N/A	N/A	N/A	\$100.00 pesos/kilo	\$153.66 pesos/kilo**	\$162.08 pesos/kilo**	\$214.83 pesos/kilo**	\$272.22 pesos/kilo**	\$477.63 pesos/kilo**	
Gross incomes (4)	N/A	N/A	N/A	N/A	N/A	\$100,173.50 pesos/panga	\$90,612.47 pesos/panga	\$88,705.49 pesos/panga	\$91,589.69 pesos/panga	\$84,080.69 pesos/panga	\$121,499.08 pesos/panga	
Number of curvina fishing permits (2)	N/A	N/A	N/A	N/A	N/A	N/A		512	682	682	721	
Community monitoring							16 monitors in GSC	Monitoring in GSC, CCP pilot program	29 monitors in GSC	Monitoring in GSC, SF	Monitoring in GSC,SF	52 monitors in all 4 fishery communities
Governance bodies							Grupo Técnico Curvina	Comité Consultivo Multi-actor		Formalization of Comité Consultivo Multi-actor		
Fishing days (5)	N/A	N/A	N/A	N/A	N/A		~ 30	~20	~20	~20	~20	

Information sources:

- 1) DOF: Diario Oficial de la Federación
- 2) Fishing permits specifications
- 3) Landings reported by CONAPESCA offices in BC and Son
- 4) Economic overview surveys, Golfo de Santa Clara, EDF de México
- 5) Community Monitoring Program

*In 2015 and 2016 fishing season, the Curvina were exempt from quota limit

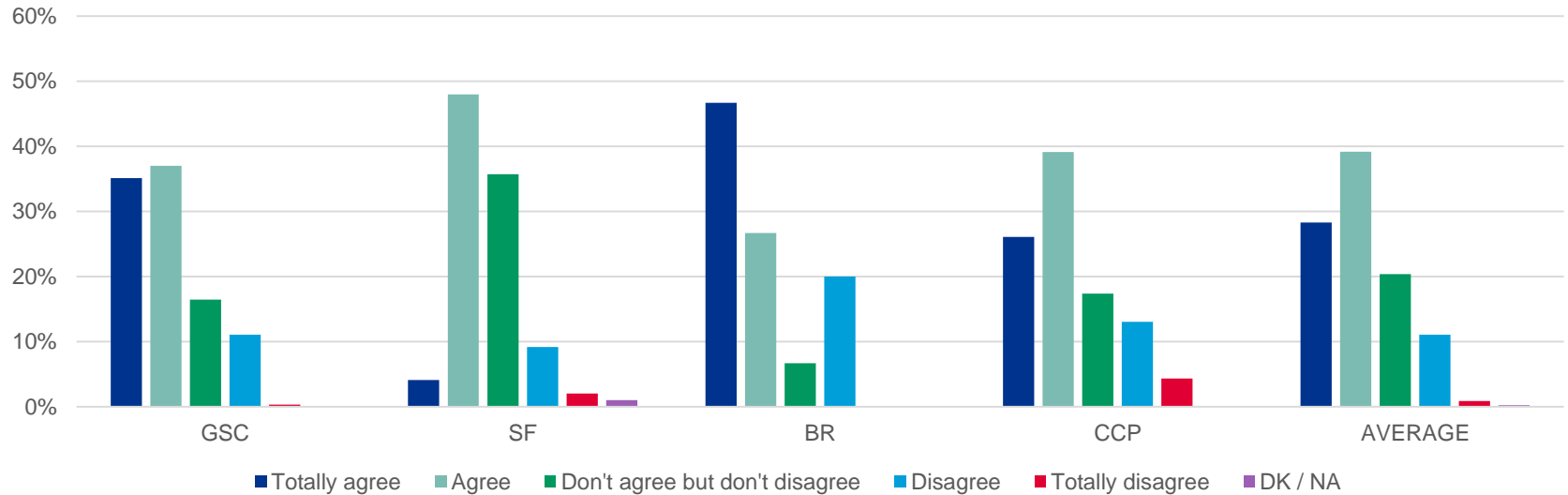


Stakeholders perceptions

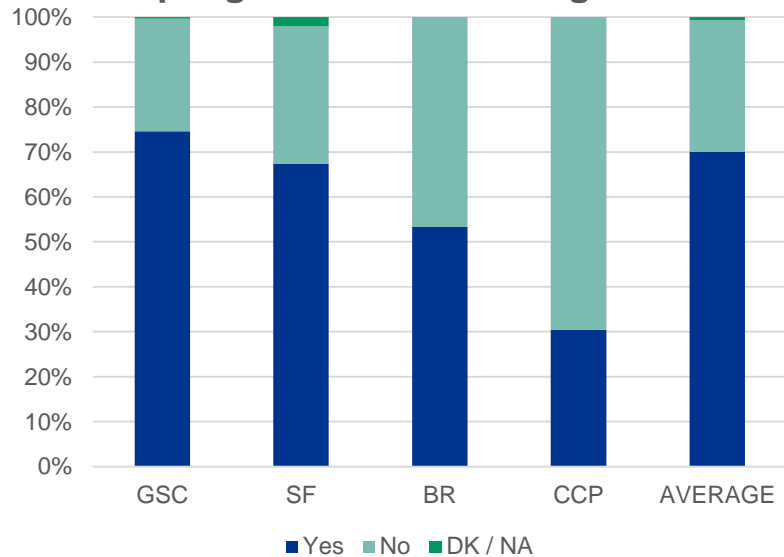
Gulf curvina line base surveys 2016



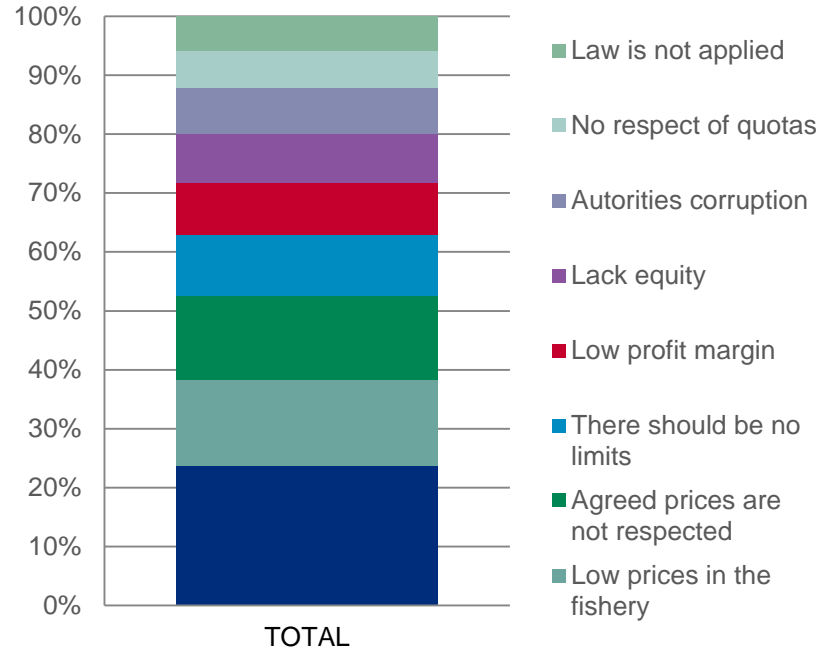
"In my community fishing is an economic activity that allows me to earn enough to have a good standard of living"



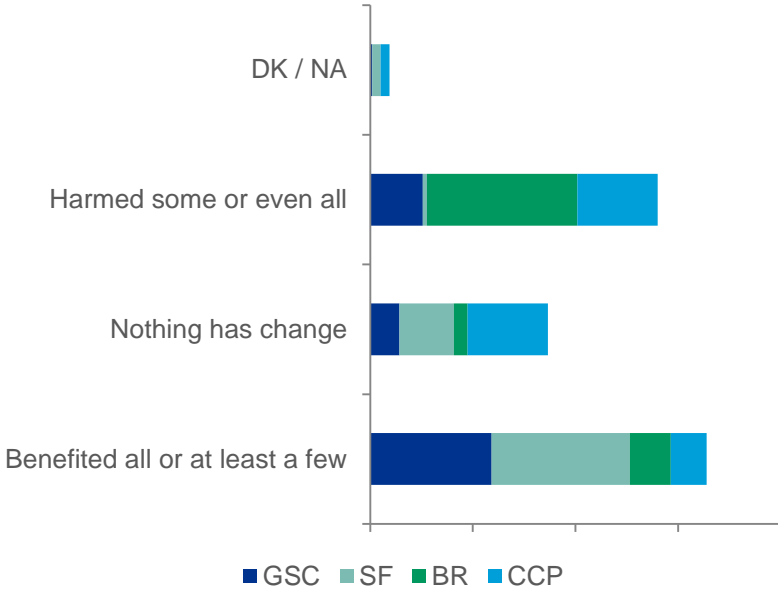
Do you agree with a limit to the total catch of curvina and that each panga also has a fishing limit?



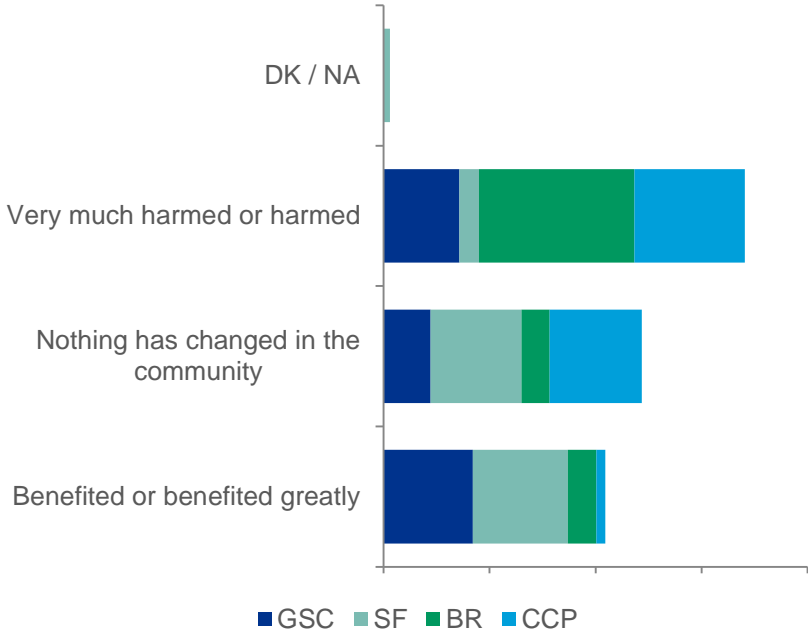
Why do not you agree?



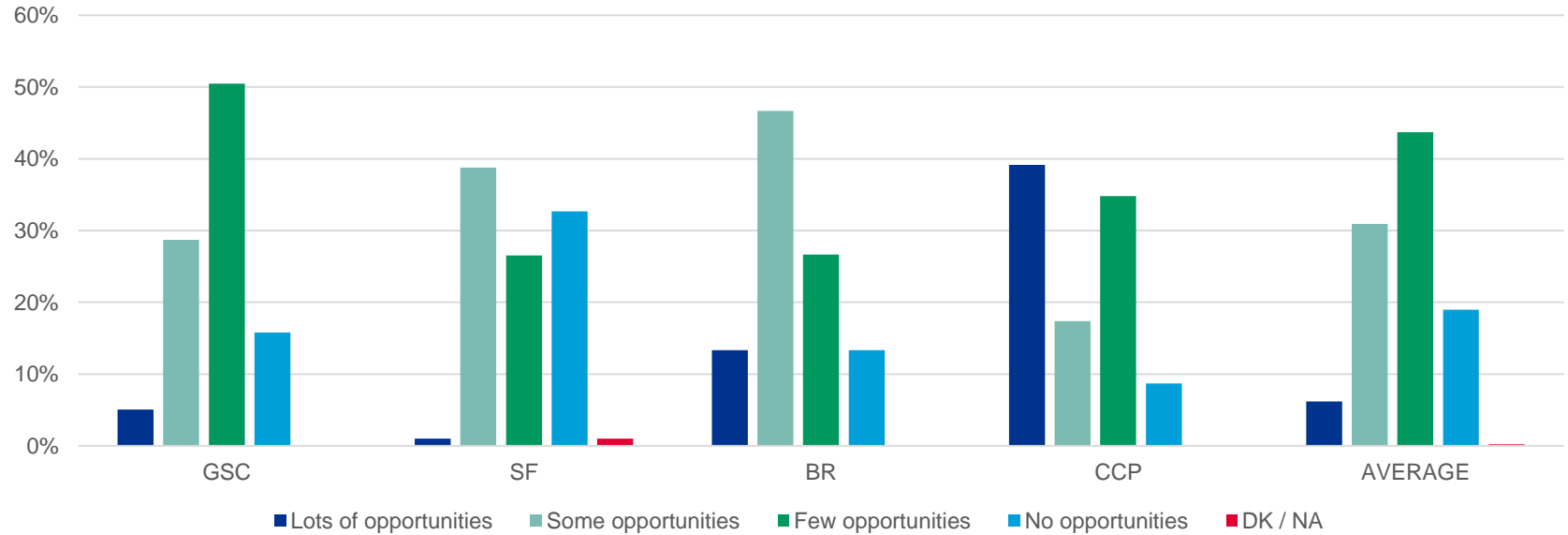
Curvina catch shares program in your community has?



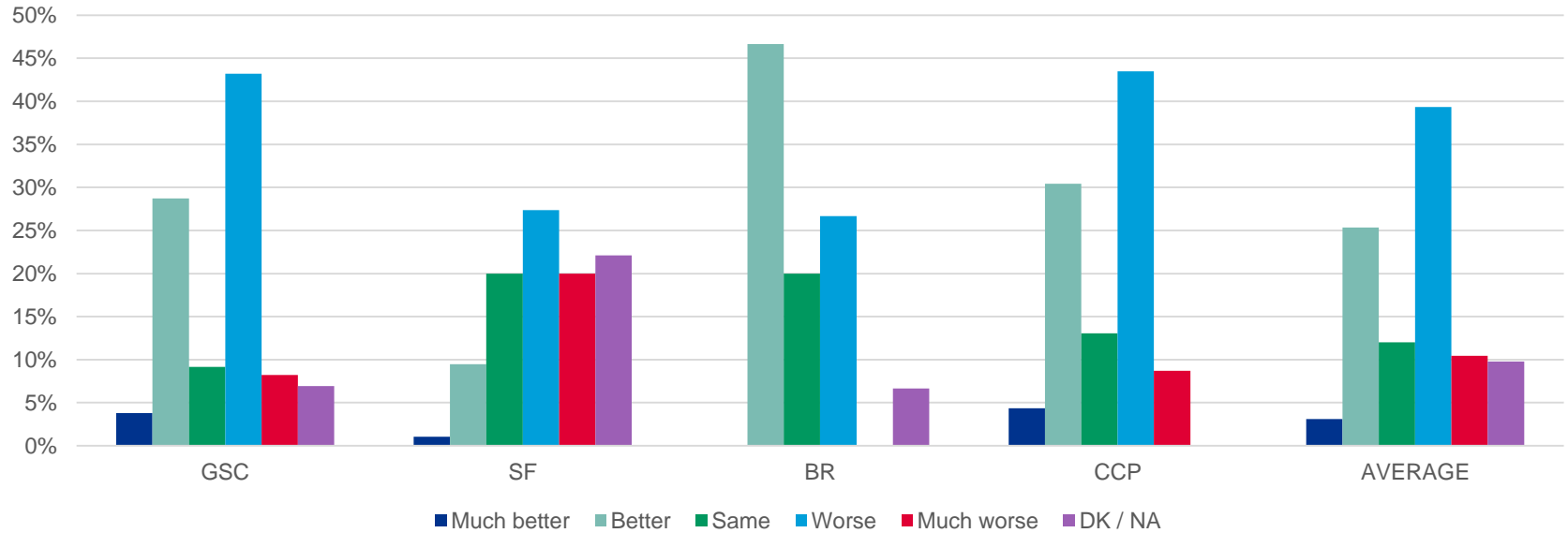
To you catch shares has?



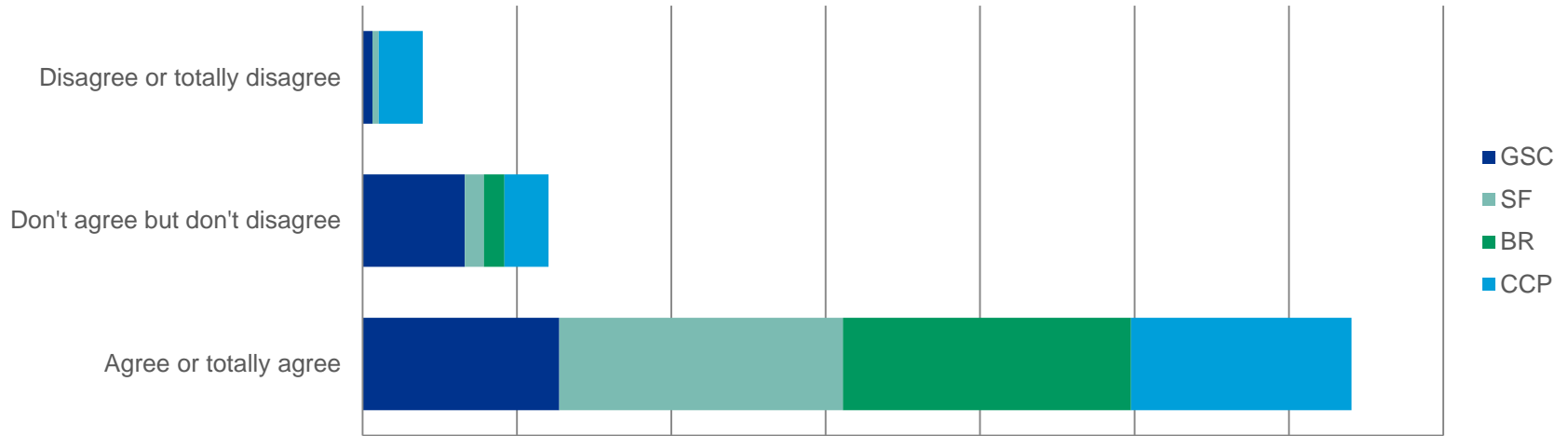
Development opportunities for the young in local fisheries



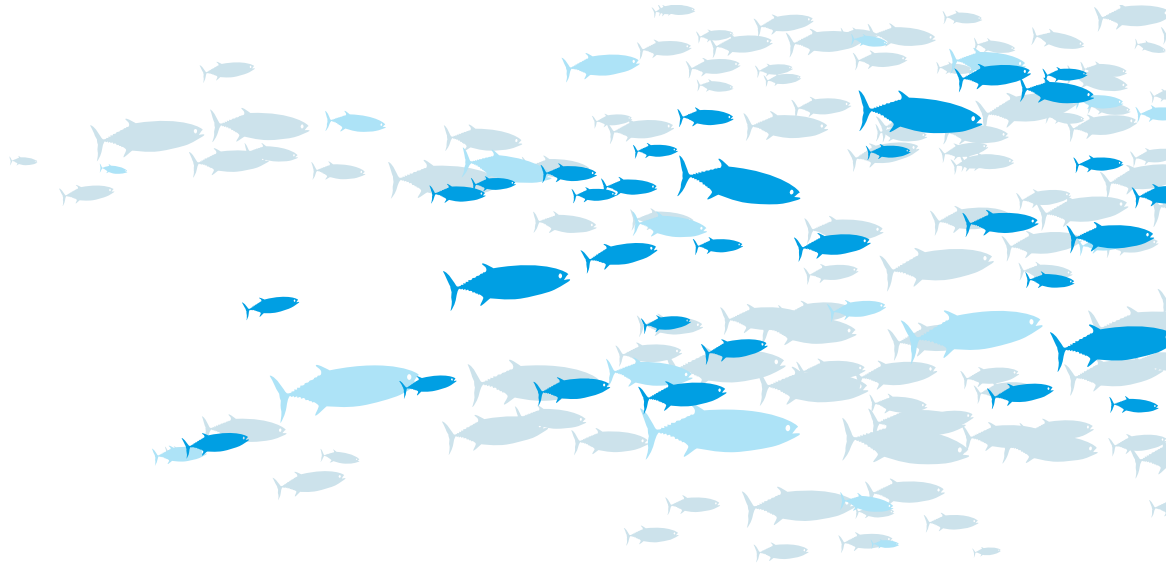
How will be the future for fishing in your community?



"Thanks to the participation of fishermen, authorities and environmental and social organizations, we have improved the way that Curvina fishery is managed in my community"



Challenges



Do you know how quota or fishing limit is determined?



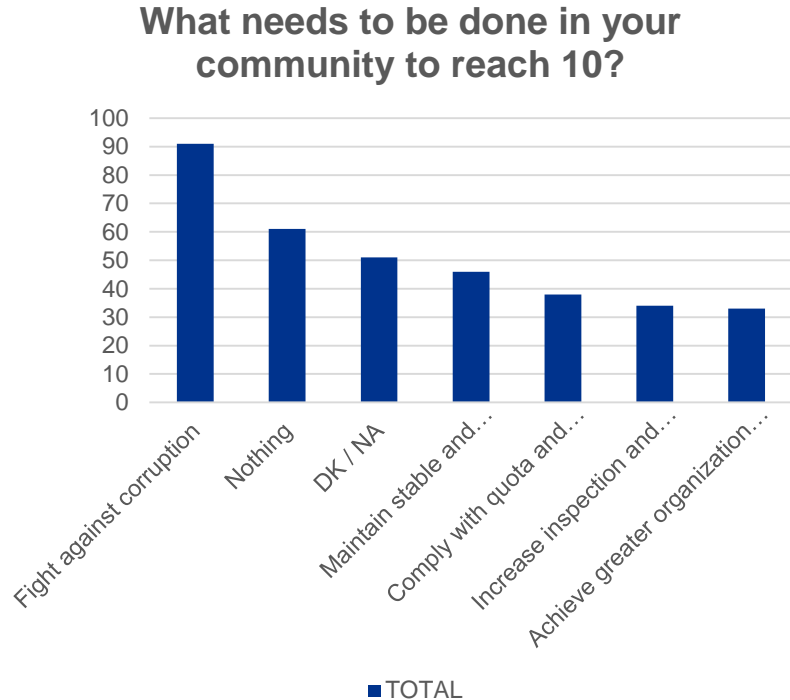
- Improve knowledge

How much is considered the opinion of stakeholders for management decision making?



- Improve knowledge
- Stakeholders opinion in management decisions

Curvina management: 7.8 average



- Improve knowledge
- Stakeholders opinion in management decisions
- ~~Corruption~~, price stability and competitiveness, compliance, effective inspection and surveillance, fishermen organization

Conclusions



- Participation in management decisions is key!
- Outreach to all community members to ensure they know and understand benefit
- Agreements within sector are not broadly communicated
- Information!!



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Programa de Manejo Compartido

METAS	Objetivos	Indicadores
Biológico	<ul style="list-style-type: none">Aumentar conocimiento sobre la pesqueríaAumentar productividadConservar hábitats claveEliminar sobreexplotaciónReducir captura incidentalRestaurar stocks	Salud del stock
Económico	<ul style="list-style-type: none">Apoyar empleo (estable y duradero)Promoción de ciertos sectoresPromover viabilidad económicaReducir sobrecapitalización	Rentabilidad de la actividad
Manejo	<ul style="list-style-type: none">Fortalecer gobernanza localReducción de gastos administrativos y de manejo	Organización alrededor de los recursos
Social	<ul style="list-style-type: none">Garantizar acceso a pescadores localesImpulsar justa distribución de beneficiosLimitar consolidación y concentraciónPromoción de ciertos sectoresProtección de grupos específicos (jóvenes, indígenas, mujeres)	Conservación de una estructura tradicional