Measure	Pros	Cons	Additional Issues
Increase MLS	Simple technical measure	Reduced landings for fishermen	Support on measuring – gauges etc
	Will initially reduce landings as 13-	Short-term economic impact on	Might have to be a regional
	19% landed between 140-150	fishers as landings will reduce initially	measure, will all regions agree?
	Increase yield of crab	A permanent management measure	Requires SI (public consultation). Should not be same as lobster max LS as it discriminates against Irish vessels
	Ensures better market quality of the catch	Does not apply to vessels from other jurisdiction except to NI 0-6nm	Review if stock starts to respond to measure.
	Allow to breed for longer before exposure to fishery	French have access Carnsore to Cork <12nm so would have to consult.	Optimal size needs to be considered and need data to support this
	Increased egg production by larger sizes	Some markets prefer smaller especially if pieces per box such as China	
	zero fishing mortality between 140 and 150?	If you don't know where the boats are you cannot implement this measure an area basis e.g. inside 6nm or inside 12nm	
	Bigger crab which may be useful for some markets		
Ban on Berried Crab	Easy and simple to introduce and enforce	Won't have a huge impact but it's a positive action	Definition = any trace of eggs on clutch
	Small increase to recruitment	Very short term impact on landing and earnings	Applies to all fishermen who land crab as targeted or by catch
	Good for recruitment –chance to reproduce	East coast end of Oct Nov December	Unless current legislation is enforced on clawing then there will no impact from this measure

	You can recatch the crab when it eggs hatch therefore no loss to income in long term but all the benefits Immediate live return so simple to implement		Good communication to buyers and processors as well as the fishing industry.
Restrict clawing	Background work is already done on this – there is a proposal already development on amending the regulation. It could be rolled out quickly.	Controlling clawing under current legislation is hard to enforce.	
	Protects undersize crab, soft and berried crab	Huge demand for white crab meat.	
		Parts of industry remote from	
		processors ALREADY FISH FOR CLAW	
		MARKET which will not change as they cannot get rid OF 30 boxes of crab.	
Restrict Landing of Soft Crab	Stop landings of soft crab	Alternative bait will be needed for other fisheries such as whelk	Impact on loss of bait for other fisheries
	Market doesn't want it	Significant economic impact when there is a high abundance of soft-shelled crabs during certain periods	Is this as big an issue as we might think
	In a few weeks it will be marketable once it hardens with higher value	Difficult to define/identify soft crab	Is there regional variation?
	Significantly reduce landings	Could be difficult to enforce	Quality of live return being protected
	Ban on landings soft crab would improve the fishery reputation		Need definition
	No value as whelk bait		

	Improves fishery yield as reduced amounts of crab landed at a lower value price Maintain crab quality and value		
Introduce Escape Gaps	Makes fishing operations easier for vessels in the NW for example	Increased cost and work to adapt pots	How will this work with pot limits if they are introduced?
	Would allow small lobster/crab escape. Reduces bycatch of undersized crabs	Need to consider velvet crabs – may be fishery specific	Need to careful consider the type of escape panel SO THAT IS OPTIMAL FOR THE FISHERY
	30% effective for small sized Brown crab release. Also effective for undersized lobster	Difficult to enforce?	Potential to have them made in Ireland from recycled plastic
	More effective live return	Have to bring all the pots in to install	Would need careful legislation and enforcement
	Less claw loss	Not completely effective for crab 30-40%	Potentially would be most suitable for new gear – introduce on phased basis
	Less work on deck	Need participation by everyone for it to be effective	
	Relatively low cost measure		
Staggered seasonal Fishing Cessation	Rotating seasonal closures may improve market supply and price	Is there any benefit if vessels aren't fishing anyway due to weather?	Do these need to be regional? There needs to be staggered regional closures to maintain the market
	If seasonal closures during low effort seasons will they be effective	Enforcement would be difficult	Combine with other area based measures

	Gives an opportunity for processors to reduce any frozen stock in storage	May need agreement from different countries – could be challenging	The closure would need to be a complete closed, no other activity would have to happen – does this include all fishing including bycatch of crab from lobster fishermen.
	Definite defined effort reduction and reduced fishing mortality	Economic impact on fishers need to be addressed	Should only be used judiciously
	Can be done in such a way to maintain access to market	If done incorrectly could lose access market and impact fleet and processors in value chain	Needs diversification or support form the state to make it successful
	Useful in conjunction with other management measures to achieve specific goals	Would need to be used in combination with other management measures	Would need to be evaluated and monitored
		Needs to be done when it has impact which will have a significant economic impact	
Manage number of vessels in the fishery - Managed Access	More product for the vessels that are fishing the stock	Latent capacity holders without track record will consider that their capacity /asset value has been devalued	Need historical records of fishing (track record) to access permits (at least three year) – what is the entry limit in terms of amount landed (e.g., 2 Tonne)
	Controls over capacity	There will be a race to get crab fishing to establish a track record especially if phased in	Entry and exit rules really important - new entrants should only be allowed in if the stock status can accommodate them
	Long-term security for those already fishing	Risk of ringfencing which is not welcomes among some parts of the industry	Permit numbers would need to be addressed at regular intervals in line with stock status

	Responsible, invested fishing practices	Needs robust entry/exit rules	Need a retirement scheme for exit and allowing entry (new entrants will need specific requirements like experience on crab)
	Quantifies the amount of boats that are fishing crab	Needs to have very tight rules and regulations	Can't become an ITQ! Can't be transferable.
	Managing the access is a conservation measure in that it can be used to reduce the amount of effort on crab in conjunction with other measures	You don't want latent permits	Need a use it or lose it clause
	Manages the latent effort issue	Needs to be tied in with pot limits which may increase control enforcement effort	Must make provisions for young people coming in the future.
		May be a legal challenge	EU can introduce a quota if the crab stock on a European basis is in trouble. Consider decommissioning scheme for latent capacity holders who are not able to prove track record.
Effort Control	Effort control and reduced effort	There are already effort regimes in place on kW days	Used in combination with other measures
	Prevents overfishing by limiting the time or resources fishermen can use.	Can be perceived as overly restrictive and a threat to livelihoods. Requires detailed monitoring to be effective and fair.	Need to consider the sequencing of effort control. This is key, needs to be linked to caps on vessels, permits, etc. These permit vessels (by area) can then decide the effort limitations.
	Protects stocks from excessive pressure, contributing to long-term sustainability.	We don't know the amount of effort to control	How does this work along with all other possible measures with Lobster fishing.

	Responds to falling stocks to increase biomass and protect recruitment	How do you divide it at the start to have economic stability?	Learn from any mistakes made from the past.
	Capping the fishery so effort cannot increase Equality of application	Needs managed access to work best	This measure also ties in to pot limits, area management measures, managed access. Need to Know where to start? What the stock level and what reduction is required to get to F, MSY or other suitable indicator?
			Malin stock needs 25% reduction in fishing mortality to return to MSY
Pot Limits	Needs managed access to work effectively	It may encourage vessels to buy more pots to reach the limit if flagged in advance	There will need to consider if there is a pot limit per vessel size (may be a division at <>12m).
	Reduces effort, gear and operating costs (fuel, bait), carbon footprint	Limit profitability for vessels	Will need VMS on board to monitor fishing and effort.
	Fairness across the industry	Difficult to enforce and monitor	Unworkable without a pot decommissioning scheme?
	CPUE should increase	There would be 1000s of euros of pots not fishing – need to address the capital tied up in this –pot decommissioning as capital investment on pots will be lost	Could be linked to managed access and pot tags could be issued.
	Pots would be looked after more! prove profitability	You would need to tag all pots It could be ever reducing if not used in conjunction with other measures	Data required. Must not discriminate against Irish vessels and should be area specific
	Beneficial to entrants in terms of physical labour.		Would need to be off shore and inshore pot limits

It would have to be a phased
process to replace and tag all pots

			process to replace and tag all pots
Pot Type Restrictions	Reduces pots numbers There is less soak time	Will be difficult to enforce There is less soak time (more work to collect pots) May reduce catch efficiency if certain types of pots are restricted.	Restrict which pot types?
Introduce TAC	Limits the total amount of crabs that can be caught, preventing overfishing and allowing for better control of fishing pressure.	No appetite in the industry for TACs	The new control regulation may allow for a discussion on TAC in the future when data is available.
	Fishermen can decide how they want to use their effort to reach their catch	Data may not be there to effectively allocate TACs.	Cockle fishery has TAC and it is working.
	Encourages sustainable management, aligning with stock assessments and scientific recommendations.	Subject to ministerial policy	Vessel allocations could be considered. This is different to TAC because an allocation dictates how the crab will be distributed between vessels
	Can be adjusted annually based on stock health, allowing for flexible management.	Difficult to manage as allocation between vessels will be difficult	No ITQs as policy, however ringfenced fisheries existed Tier 1 Tier 2 Scallops
	Reduces fishing mortality	Viability of vessels if there isn't enough TAC	Capping the fleet has negative connotations so should be referred to as managed access.
	Encourages high quality/high grading	TAC can reduce	Decommissioning latent capacity could be considered as a measure to manage latent capacity
	Can increase price	Market sustainability	

Requires managed access to work
effectively

		effectively	
Area Based Measures	There could be national measures (such as berried crab, MLS).	Could be difficult to enforce	Closure has negative connotation.
	Tailored management for specific regions can increase effectiveness.	Potential displacement of effort to other areas.	If fishery entry regimes are in place how is this controlled along with area-based management or closures. Can a vessel move between areas?
	Allows local populations to recover or be protected.	Administrative complexity in enforcing varying measures across different zones.	Linked to seasonal closures – how would these work together?
	Allows any measures to applied in an appropriate and practical way	Displacement of activity might become an issue particularly if the measures are not popular	
	Encourages fishers taking ownership of the management measures and could mean higher level of compliance because of better buy in	Defining the areas could be challenging	
	Can allow areas to go further in their ambition because it is practical - no trans boundary issues in certain cases	Needs iVMS to be effective	
	Reduces cost	If closures would need to have a certain amount of flexibility to accommodate for weather issues	