Mauritania small pelagics

Fishery Improvement Project (FIP) Workplan

Note: This workplan is based on an evaluation of the fishery relative to the MarinTrust standard for FMFO fisheries (updated April 20210), and a MSC pre-assessment (December 2020). The actions have been identified to improve the performance of the fishery relative to any indicator in both standards where the fishery is scoring below the required level.

Workplan Overview

Workplan Version and Date	Mauritania small pelagics FIP: Workplan version 3, April 2021
Start date (expected)	End date (anticipated month/year)
April 2021 (with new workplan)	December 2025
FIP Lead (organization/individual responsible for Action Plan)	Improvements recommended by (meeting/group that supported the development)
Comité de Pilotage and FIP coordinators (Cheikh-baye Braham, Youssef Jaridi)	FIP participants
FIP Coordinator (organization/individual responsible for reporting on FisheryProgress)	Workplan developed by (consultant or person)
Youssef Jaridi	Jo Gascoigne

Unit of Assessments

MSC Units of Assessment (UoA)

UoA 1	Description
Target species	Sardine (Sardina pilchardus)
Stock	NW Africa Stock sud

Geographical area	South Morocco and north Mauritania			
Fishing method or gear type	Seine and pelagic trawl			
Fishing fleet or group of vessels, or individuals fishing operators pursuing stock	Pirogue fleet, coastal fleet			
UoA 2	Description			
Target species	Round sardinella (Sardinella aurita)			
Stock	NW Africa			
Geographical area	Mauritania, Senegal, Gambia, Guinea Bissau			
Fishing method or gear type	Seine and pelagic trawl			
Fishing fleet or group of vessels, or individuals fishing operators pursuing stock	Pirogue fleet, coastal fleet			
Note	Since February 2020, it is no longer permitted to land round sardinella for fish meal, so this stock is no longer a target species of the fishery. It is retained here for completeness.			
UoA 3	Description			
Target species	Flat sardinella (Sardinella maderensis)			
Stock	NW Africa			
Geographical area	Mauritania, Senegal, Gambia, Guinea Bissau			
Fishing method or gear type	Seine and pelagic trawl			
Fishing fleet or group of vessels, or individuals fishing operators pursuing stock	Pirogue fleet, coastal fleet			

MarinTrust species categories

(For details see assessment of fishery against MarinTrust standard.)

Category A species: sardine

Category B species: flat sardinella, mackerel (Scomber colias), horse mackerel (Trachurus spp.)

Category C species: round sardinella, mullet (Mugil sp.)

Category D species: anchovy (Engraulis encrasicolus), obo (Ethmalosa fimbriata)

FIP Actions

Summary of FIP actions:

- 1. Improve data collection on catch, effort and biomass for coastal fleet / small pelagics
- 2. Support government in putting in place Small Pelagics Management Plan (PAPP)
- 3. Ensure that the fishery is managed consistent with ecosystem requirements
- 4. Support government and scientists in collaborating with Morocco and Senegal for management of shared stocks
- 5. Support monitoring and enforcement on vessels and in factories
- 6. Evaluate bycatch, discards and habitat interactions
- 7. Improve stock assessments
- 8. Refocus fishery on human consumption market
- 9. Establish management system for FIP to implement above actions

Table 1. Performance Indicator Action Plan Table for Action 1

Action Number and Name	1. Improve data collection on catch and effort for small pelagics
Action Goal	The data available for stock assessment from Mauritania meet COPACE sampling requirements and are sufficient for robust stock assessments.
Action Description	Improved data will allow for improved assessment of stock status and provide a firm basis for management of these stocks, both in Mauritania and in the region. Data sources include coastal fleet landings and effort (logbooks), sampling at fishmeal factories (species composition and length) and acoustic surveys.
Expected Completion Date	End 2023
Priority	High priority

Estimated Cost	Budget provided by IMROP (2020): Data collection and monitoring from the fishery: US\$ 96,500 Acoustic survey: US\$ 556,000
Responsible Parties	IMROP, participating factories
MSC PI(s) addressed by the Action	1.2.3 and 2.1.3; also 1.1.1, 1.1.2, 1.2.1, 1.2.2, 1.2.4, 2.1.1, 2.1.2 (all UoAs)
MarinTrust criteria addressed by the Action	A3.1, A3.3 (sardine), B (flat sardinella and horse mackerel), C1.1, C1.2 (mullet and round sardinella)

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)	Starting date	Expected completion date	Evidence of completion / results
1.1 Ensure that logbook data are	1.1.1 Support data entry of existing backlog of paper logbooks	IMROP		2020	Dec. 2021	Database of logbook data up to date
available to scientists	1.1.2 Evaluate options for transition to electronic logbooks	IMROP	Vessel owners / operators	2021	Dec. 2021	Decision on suitability of e-logbooks
	1.1.3 If feasible, support transition to electronic logbooks				Dec. 2022	e-logbooks in use
1.2 Support scientific sampling at landing sites and	1.2.1 Support IMROP with resources for factory sampling (e.g. tablets for enumerators, vehicle for access to new port)	IMROP	FIP team	2020	June 2021	IMROP able to access all factories and landing sites
fishmeal factories	1.2.2 Work with factory owners to ensure access for IMROP sampling team at all times	Participating factories	FIP team, IMROP	April 2021	Ongoing	IMROP able to access all factories and landing sites
	1.2.3 Evaluate other sampling options, e.g. factory self-sampling protocols, IMROP training to factory staff or other; implement if useful	IMROP and factories		June 2021	June 2022	Evaluation of feasibility
	1.2.4 Assess sampling rates against CECAF minimum requirements to ensure compliance	IMROP	FIP team	April 2021	Ongoing annually	Annual assessment
1.3 Support acoustic surveys	1.3.1 Evaluate requirements for Al Awam to continue to conduct acoustic surveys (maintenance, equipment)	IMROP, MPEM		June 2021	Dec. 2021	Vessel survey

1.3.2 Work with MPEM to raise funds for improvement of vessel, if required	FIP team	MPEM, IMROP		.	Budgets, funding proposals
1.3.3 Provide other support to acoustic surveys as feasible and required	IMROP	FIP participants	2021	Ongoing	

Table 2. Performance Indicator Action Plan Table for Action 2

Action Number and Name	2. Support updating and implementation of small pelagics management plan (PAPP)
Action Goal	The PAPP sets out clear objectives for the fishery, stocks and ecosystem, along with actions to ensure that these objectives are met, as well as methods and means for these actions to be implemented.
Action Description	 A PAPP was developed in 2013 but not implemented, and it is now too out of date to be useful. An updated PAPP setting out clear objectives and actions for the fishery will ensure that management is coherent and targeted, with the support of stakeholders. The PAPP should include the following elements: Clear objectives for the stocks, fishery and ecosystem (see Action 3) Options for management actions to achieve these objectives, agreed with stakeholders Data collection to ensure that stock status and progress towards objectives can be measured (see Action 1) A commitment to work with neighbours on a bilateral or multilateral basis for the management of shared stocks (see Action 4) Measures to ensure compliance by the fishery and supply chain (see Action 5) Evaluation and actions as required to ensure that the fishery does not impact important, depleted or protected species or habitats (see Action 6) Measures to avoid, resolve or mitigate conflicts within the fishery or with other fisheries Measures to progress the fishery towards human consumption supply chains, as per government policy (see Action 8)
Expected Completion Date	Timetable for finalisation and implementation of PAPP to be set by MPEM
Priority	High
Estimated Cost	US\$ 5,000
Responsible Parties	MPEM; also IMROP and other FIP participants
MSC PI(s) Addressed by the Action	1.2.1, 1.2.2, 2.1.2, 2.2.2, 2.3.2, 2.4.2, 2.5.2; key LTL requirements

MarinTrust criter	ria addressed	by the	Action
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A3.1 and A3.3 (sardine), B (flat sardinella and horse mackerel), C1.1, C1.2 (mullet and round sardinella), F3.1

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)	Starting date	Expected completion date	Evidence of completion / results
2.1 Participate in PAPP preparation	2.1.1 Conduct consultation among FIP participants on policy submission to MPEM	FIP coordinator	FIP participants	April 2021	Aug. 2021	Consultation inputs and results
	2.1.2 Draft proposed outline of policy content, review and agree with FIP participants and submit to MPEM	FIP coordinator	FIP participants	Aug. 2021	Sept. 2021	Proposal
	2.1.3 Participate in MPEM consultations on policy	FIP participar coordinator	nts and	April 2021	Dec. 2021	Meeting and workshop conclusions
	2.1.4 Submit comments on drafts as requested	FIP coordinator	FIP participants	According timetable	g to MPEM	Comments, correspondence
2.2 Support PAPP implementation	2.2.1 Work with MPEM and IMROP to support implementation of PAPP activities with specific FIP tasks to be determined	FIP coordinator	MPEM, IMROP and FIP participants	According in PAPP	g to timetable	Revised FIP workplan aligned with PAPP
	2.2.2 Evaluate progress against PAPP objectives on a regular (annual) basis, and work with MPEM to adjust activities and FIP tasks accordingly	FIP coordinator	MPEM, IMROP and FIP participants	Annual, o	ngoing	Revised FIP workplan aligned with PAPP

Table 3. Performance Indicator Action Plan Table for Action 3

Action Number and Name	3. Ensure that the fishery is managed consistent with ecosystem requirements	
Action Goal	The fishery is not having a significant impact on the ecosystem, including important ecosystem components such as seabirds, marine mammals and other predators dependent on small pelagics.	
_	This action aims to ensure that MSC's requirements for key LTL species are addressed, as well as the MarinTrust requirements around ecosystem management, and that the requirements of the ecosystem are taken into consideration in management decision-making.	
Expected Completion Date	End 2023	

Priority	Medium
Estimated Cost	US\$ 5,000
Responsible Parties	IMROP with external support
MSC PI Addressed by the Action	PIs 1.1.1 and 1.1.2 (sardine and flat sardinella, if key LTL), 2.5.1, 2.5.2 and 2.5.3
MarinTrust criteria addressed by the Action	F3.1

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)		Expected completion date	Evidence of completion / results
3.1 Develop and improve ecosystem model	3.1.1 Complete preliminary model	IMROP	INRH	Already started	2021	Model
	3.1.2 Continue to improve preliminary model with new data	IMROP	FIP	April 2021	As data permit	Updated model
	3.1.3 Evaluate MSC key LTL status of target stocks	IMROP	FIP	Periodically	as data change	Estimated MSC indices
	3.1.4 Evaluate ecosystem impacts of fishery	IMROP		Periodically updated	as model	Assessment input to IMROP advice to MPEM
3.2 Ensure management objectives are consistent with predator food requirements	3.2.1 Collate existing data on marine predator populations (cetaceans, seabirds, seals, predatory fish)	IMROP	FIP	April 2021	End 2021	Estimates of predator populations in fishing area
•	3.2.2 Based on published diet data estimate food requirements from target stocks for different predator groups; following methodology already used in Morocco	FIP/IMROP	INRH	Jan. 2022	June 2022	Estimate of predator consumption of small pelagics
	3.2.3 Evaluate whether management objectives (reference points) for target stocks are consistent with maintaining predator food requirements	FIP/IMROP	INRH	June 2022	Dec. 2022	Assessment

3.2.4 If necessary set additional management objectives	IMROP	MPEM	Dec. 2022	Dec. 2023	Revised ref.
consistent with ecosystem					points

Table 4. Performance Indicator Action Plan Table for Action 4

Action Number and Name	4. Support government and scientists in collaborating with Morocco and Senegal for management of shared stocks
Action Goal	Stocks shared with neighbouring countries are managed in a coherent and sustainable way across all the main jurisdictions
Action Description	The sardine stock is shared with Morocco, while the sardinella stocks are shared mainly with Senegal. Regional organisations exist for collaboration and information sharing but do not have any management role, although scientific cooperation is good (through CECAF). The FIP is not in a position to develop a regional management body from scratch, but aims to support actions to develop and improve bilateral and/or regional discussions and cooperation for management of small pelagics.
Expected Completion Date	End 2025
Priority	High
Estimated Cost	US\$ 8,000
Responsible Parties	MPEM, with IMROP and other FIP participants
MSC PI Addressed by the Action	3.1.1 and 3.2.2, also 1.2.1 and 1.2.2
MarinTrust criteria addressed by the Action	A3.1, A3.3, B (flat sardinella), C1.2 (round sardinella)

Action	Tasks/ Milestones	` /	-	date	1	Evidence of completion / results
participants of sardine FIP	4.1.1 Facilitate exchanges between MPEM and FIP coordinator and colleagues at DPM in Morocco	FIP coordinator	MPEM, DPM	May 2021	Ongoing	Visits / meetings
in Morocco	4.1.2 Facilitate exchanges between INRH and IMROP in support of increased scientific collaboration and improved data collection in Mauritania		IMROP, INRH	May 2021	Ongoing	Visits / meetings

	4.1.3 Facilitate participation of Morocco in FIP (e.g. invitation to FIP meetings as invited speakers or observers)	FIP coordinator		Next FIP meeting	Ongoing	FIP meetings
4.2 Facilitate engagement with Senegal	4.2.1 Facilitate engagement of MPEM with authorities in Senegal as far as possible	MPEM	FIP	2021	Ongoing	TBD with MPEM
	4.3.1 Facilitate engagement of MPEM with regional advisory bodies as far as possible	MPEM	FIP	2021	Ongoing	

Table 5. Performance Indicator Action Plan Table for Action 5

Action Number and Name	5. Support monitoring and enforcement on vessels and in factories
Action Goal	There is good compliance with management regulations by fishing vessels in the coastal fleet, and by the FMFO factories; and full cooperation with the authorities including scientists
Action Description	Mauritania has a monitoring and compliance system, but some concerns have been raised about some elements of compliance by the fleet, including respect of zoning and maritime frontiers, mis-declaration of landings by species and non-use of VMS. It is particularly critical that the vessels and factories cooperate fully with scientists conducting sampling of catch (species composition and length), because this is essential for stock assessment and hence management.
Expected Completion Date	End 2023
Priority	High
Estimated Cost	US\$ 1000
Responsible Parties	FIP participants
MSC PI Addressed by the Action	3.2.3
MarinTrust criteria addressed by the Action	M2.3, M2.4

Action	Tasks/ Milestones	_	*			Evidence of completion / results
and factories for scientific		FIP coordinators	_	April 2021	Ongoing	Meeting minutes, newsletters

	5.1.2 Develop reporting process from IMROP to FIP when access is not granted	FIP coordinators and IMROP		April 2021	Ongoing	Reports from IMROP to FIP
	5.1.3 Work with individual factories and vessel owners to resolve these access issues	FIP coordinators	FIP participants	April 2021	Ongoing	Reduced number of reports
5.2 Engage with GCM on issues of enforcement in the small pelagic fishery	5.2.1 Invite the GCM to attend and present at FIP meetings on issues of concern	FIP coordinators	GCM	July 2021	Ongoing	Meeting attendance and minutes
	5.2.2 Engage with the MPEM and the GCM in the PAPP process to ensure that proposed management measures are feasible and enforceable (see also Action 2)	MPEM, GCM	FIP participants	As per MPEM (see Action 2		PAPP measures
5.3 Support factories with external certifications and audits as a check on compliance	See Action 8					

Table 6. Performance Indicator Action Plan Table for Action 6

Action Number and Name	6. Evaluate bycatch, discards and habitat interactions
Action Goal	Discards and interactions with protected species and habitats are quantified, and management measures put in place to minimise them if necessary.
Action Description	The coastal fleet mainly uses seines, so it is not thought likely that the fishery generates high quantities of discards, or interactions significantly with protected species such as seabirds, cetaceans and seals, or vulnerable habitats. However, data are needed to identify and quantify these interactions.
Expected Completion Date	End 2023
Priority	Medium
Estimated Cost	US\$ 50,000 (estimated by IMROP)
Responsible Parties	IMROP with the cooperation of FIP participants, particularly vessel owners
MSC PI Addressed by the Action	2.2.1, 2.2.2, 2.2.3, 2.3.1, 2.3.2, 2.3.3, 2.4.1, 2.4.2, 2.4.3
MarinTrust criteria addressed by the Action	F1.1, F1.2

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)	Starting date	Expected completion date	Evidence of completion / results
6.1 Deploy observers	6.1.1 Initiate awareness through FIP meetings and newsletters about importance of ensuring access for observers	FIP coordinators	IMROP	July 2021	Ongoing	FIP meetings and newsletter
	6.1.2 Make a plan with IMROP regarding how to train and deploy observers (management framework, means, recruitment, training, protocols, sampling requirements etc.)	IMROP and FIP coordinators	FIP participants	July 2021	Dec. 2021	Plan
	6.1.3 Implement plan (recruitment, training, develop protocols etc.)	IMROP	FIP participants	Jan. 2022	Sept. 2022	Trained observers
	6.1.3 Pilot deployments to test training and protocols; adjust accordingly	IMROP		Oct. 2022	March 2023	Deployments
	6.1.4 Systematic scientific observer deployment	IMROP		Apr. 2023	Ongoing	Deployments
6.2 Evaluate interactions with non-	6.2.1 Analyse data from observers to quantify level and species composition of discards	IMROP	FIP coordinators	2024	Ongoing	Report
target and protected species and habitats	6.2.2 Analyse data from observers to quantify level of interactions with protected species, and outcome	IMROP	FIP coordinators	2024	Ongoing	Report
	6.2.3 Analyse data from observers as well as habitat mapping information to quantify interactions with vulnerable habitats	IMROP	FIP coordinators	2024	Ongoing	Report
	6.2.4 Where necessary, adjust level of observer deployments to ensure sufficient data for robust evaluations	IMROP		2024	Ongoing	Number of deployments
6.3 Adjust management to mitigate negative	6.3.1 Present results of analyses to MPEM, with recommendations from IMROP about adjustments to management if required	IMROP	FIP	From 2025	Ongoing	Report
	6.3.2 Consult with stakeholders to develop suitable management measures to mitigate any negative interactions	FIP coordinators	MPEM, IMROP	From 2025	Ongoing	Meetings, discussions
	6.3.3 Add agreed measures to PAPP (see Action 2)	MPEM	IMROP, FIP	From 2025	As needed	Revised PAPP

Table 7. Performance Indicator Action Plan Table for Action 7

Action Number and Name	7. Improve stock assessments
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Action Goal	CECAF conducts regional-level stock assessments for shared small pelagic stocks, and is able to quantify uncertainty in the assessments.
Action Description	CECAF has a range of stock assessment methods that it can use, but would benefit from improvements in the way it evaluates and highlights uncertainty, and perhaps some external review to identify additional approaches.
Expected Completion Date	End 2022
Priority	Medium
Estimated Cost	US\$ 10,000 (technical assistance)
Responsible Parties	FIP, working with CECAF small pelagic working group
MSC PI Addressed by the Action	1.2.4
MarinTrust criteria addressed by the Action	-

Action	Tasks/ Milestones	(lead)	Responsible (supporting role)	_	Expected completion date	Evidence of completion / results
group to develop new	7.1.1 If appropriate, support external scientist to work with COPACE Working Group		other	Sept. 2021	Dec. 2022	Contract with scientist
uncertainty	7.1.2 Support external scientific review of COPACE Working Group stock assessments		COPACE WG participants	Jan. 2022	Dec. 2022	Review report
	7.1.3 Evaluate with working group other potential activities such as attendance at external workshops, ICES advanced stock assessment training or other options			Sept. 2021	Ongoing as required	

Table 8. Performance Indicator Action Plan Table for Action 8

Action Number and Name	8. Refocus the fishery on the human consumption market
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Action Goal	Following the national policy objective, an increasing proportion of small pelagic landings from the fishery enter human consumption supply chains, rather than FMFO supply chains. FMFO production comes increasingly from byproducts of processing for human consumption.				
Action Description	The FIP aims to support the vessels and factories in improving their systems (quality, handling, sanita rocesses, traceability, certifications) and making investments towards human consumption supply hains.				
Expected Completion Date	Ongoing process				
Priority	High				
Estimated Cost	US\$ 25,000				
Responsible Parties	FIP participants, particularly those from outside Mauritania with expertise in this area				
MSC PI Addressed by the Action	No specific MSC or MT requirements, but this is important to address social impacts of the fishery and food security, and provide higher levels of value-added for the fishery and local and national				
MarinTrust criteria addressed by the Action	economy.				

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting role)	Starting date	Expected completion date	Evidence of completion / results
informed about issues around quality, sanitary processes, traceability, international markets etc.	8.1.1 Organise a workshop to explain and discuss key issues in the international FMFO market	Olvea	FIP coordinators	Apr. 2021	Sept. 2021	Workshop
	8.1.2 Invite speakers to FIP meetings to cover issues where expertise is lacking or where the participants or MPEM have identified problems	FIP coordinators	FIP participants, MPEM	May 2021	Ongoing	Meeting participants and minutes
	8.1.3 Provide technical advice and support to FIP participants as required in making investments in improving infrastructure and processes	FIP participants, particularly international		As required	Ongoing	Meetings and discussions
8.2 Work with MPEM to ensure that improvements to infrastructure in the port and factory areas of	8.2.1 Support MPEM in implementing infrastructure proposals in 2020-24 fisheries strategy and PAPP	МРЕМ	FIP participants	As requested by MPEM	Ongoing	Meetings and discussions

Nouadhibou continue to be prioritised						
8.3 Support factories with certifications	8.3.1 Work with participating factories that do not have GMP+ certification to prepare applications and audits	FIP participants		As requested by participants	Ongoing	More GMP+ certifications
	8.3.2 Work with participating factories to obtain certification under the MarinTrust IP programme	FIP participants	MarinTrust	Apr. 2021		Participants certified MarinTrust

Table 9. Performance Indicator Action Plan Table for Action 9

Action Number and Name	9. Establish management system for FIP to implement above actions
Action Goal	The FIP has a clear and robust management structure in Mauritania (a comité de pilotage and a team with clear roles and responsibilities) which integrates the key stakeholders and allows effective delivery of the FIP actions.
Action Description	As the FIP has matured, the existing slightly ad hoc management framework has become inadequate and the two FIP coordinators are becoming overwhelmed with tasks. The FIP also needs better integration of key stakeholders into the project – in particular MPEM.
Expected Completion Date	End 2021
Priority	High
Estimated Cost	US\$ 10,000 per year
Responsible Parties	FIP coordinators and participating organisations, MPEM, IMROP
MSC PI Addressed by the Action	No specific MSC or MT requirements, but this is a priority to ensure that the rest of the FIP actions can be tackled.
MarinTrust criteria addressed by the Action	

Action	Tasks/ Milestones	Responsible (lead)	Responsible (supporting	9	1	Evidence of completion /
			role)		date	results

9.1 Establish formal organisation for FIP	9.1.1 Evaluate options for creating a formal organisation in Mauritania or elsewhere (location, legal basis, costs and complexity)	FIP participants	FIP coordinators	Apr. 2021	June 2021	Decision on structure
	9.1.2 Create organisation	FIP participants		July 2021	Dec. 2021	Organisation
	9.1.3 Meet ongoing legal and financial requirements (submission of reports and accounts, payment of registration fees etc.)	As defined by organisation		Jan. 2022	Ongoing, annual	Accounts etc.
9.2 Establish robust and transparent structure for financial transactions	9.2.1 Establish FIP bank account or other transparent means of receiving and spending money from different parties	FIP participants		June 2021	July 2021	Bank account
	9.2.2 Establish procedures for spending money which are transparent and robust and ensure appropriate use of funds	FIP participants	FIP coordinators	July 2021	Dec. 2021	Written procedures
9.3 Establish clear contractual framework for FIP staff	9.3.1 Ensure that employment framework, tasks, time spent and payment are clearly set out and agreed by all parties	FIP participants and coordinators		Apr. 2021	June 2021	Contracts or other agreements
9.4 Establish FIP management framework	9.4.1 Establish Comité de Pilotage (CdP) for FIP to set high level management framework and priorities – membership and terms of reference	IMROP, MPEM, FIP participants	FIP coordinators	Apr. 2021	July 2021	CdP membership and TORs
	9.4.2 Support and participate in regular meetings of CdP as required	CdP members	FIP coordinators	July 2021	Ongoing	Meeting minutes
	9.4.3 Ensure that recommendations of CdP are incorporated into FIP workplan and activities	FIP coordinators		Aug. 2021	Ongoing	Meeting minutes, revised workplan
	9.4.4 Ensure that CdP reports to FIP participants at each meeting and receives feedback	CdP members	FIP coordinators and participants	Aug. 2021	Ongoing	Meeting participants and minutes