PRIDA HCM4A Software Training

DRAFT PROGRAMME TRAINING ON THE HCM4A SOFTWARE					
3 – 7 MARCH 2025 (ADDIS ABABA, ETHIOPIA)					
	DAY 1: MONDAY 03 MARCH 2025				
TIME (EAT)	ACTIVITY	ACTION			
08:00 - 09:00	Arrival and Registrations				
09:00 - 09:30	Welcome Remarks				
09:15 - 10:30	Recap of the HCM4A Administrative Training				
	Recap of Cross-Border Frequency Coordination				
	Main Texts of the HCM4A Agreement				
10:15 - 10:30	GROUP PHOTO				
10:30 - 11:00	COFFEE BREAK				
11:00 - 12:30	Recap of the HCM4A Technical Procedures				
	Annexes 1 - 11				
12:30 - 14:00	LUNCH BREAK				
14:00 - 15:30	The HCM4A Technical Procedures				
	Technical procedures				
15:30 - 16:00	COFFEE BREAK				
16:00 - 17:30	The HCM4A Technical Procedures				
	Technical procedures				
	Q&A				
	*****END OF DAY ONE****				
	DAY 2: TUESDAY 04 MARCH 2025				
08:30 - 09:00	Arrival and registration				
09:00 - 09:15	Opening Remarks				
09:15 - 10:30	The HCM and the HCM4A Agreements background				
	The development of the HCM Agreement				
	The development of the HCM4A Agreement				
	The HCM4A Agreement short overview				
10:30 - 11:00	COFFEE BREAK				
11:00 - 12:30	The HCM4A software development project				
	The scope of the project				
	The HCM software overview				
	The HCM4A software current state				
	The HCM4A software planned short-term				
	enhancements				
12.20 14.00	Potential future development and integration				
12:30 - 14:00	LUNCH BREAK				
14:00 – 15:30	The HCM4A software architecture and source code				
	 U++/C++ framework introduction 				

15:30 – 16:00 16:00 – 17:30	 Structure of the calculation library for fixed service Structure of the GUI software for fixed service Structure of the calculation library for mobile service Structure of the GUI software for mobile service Differences and modifications compared to the HCM code COFFEE BREAK The HCM4A data and data formats Topographical and morphological data Border polygons and borderlines 	
	 Mobile service exchange formats 	
	 Fixed service exchange format 	
	SMS4DC database vs HCM4A formats	
	XSD (XML schema) for data formats validation	
	Q&A	
	*****END OF DAY 2****	
	DAY 3: WEDNESDAY 05 MARCH 2025	
08:30 - 09:00	Arrival and registration	
09:00 - 10:30	The HCM4A fixed service coordination theory	
	Interference calculations basics	
	Main input parameters and their interpretation	
	Passive repeaters as special case in the	
	HCM4A Agreement	
	Single entry calculations and criteria Overall calculation proceedings	
10.00 11.00	Overall calculation procedure	
10:30 - 11:00	COFFEE BREAK	
11:00 – 12:30	The HCM4A fixed service practical application	
	 Installation and setup of the software Main elements of GUI 	
	 Main elements of GUI Practical single-entry calculations and reporting 	
	Batch calculations	
	Potential use for national spectrum	
	management	
	Future improvements for fixed service	
12:30 - 14:00	LUNCH BREAK	
14:00 - 15:30	The HCM4A mobile service (non-IMT) coordination	
	theory	
	Interference calculation basics	
	Cross border range concept	
	Borderline calculation basics Main input paymentage and their interpretations	
	Main input parameters and their interpretation	

	Mobile station treatment and receiver	
	protection	
	Single and batch calculations	
15:30 – 16:00	COFFEE BREAK	
16:00 – 17:30	The HCM4A mobile service (non-IMT) coordination	
	practical application	
	 Installation and setup of the software Main elements of GUI 	
	Practical single-entry calculations and reportingPractical cross-border range calculations	
	Mobile station and receiver calculations	
	Batch calculations	
	Potential use for national spectrum	
	management	
	Future improvements for fixed service	
	Q&A	
	****END OF DAY 3****	
	Day 4: THURSDAY 06 March 2025	
08:30 - 09:00	Arrival and registration	
09:00 - 10:30	The HCM4A mobile service (IMT) coordination theory	
	ECC cross-border recommendations	
	Old approaches: Preferential and non-	
	preferential frequencies	
	New approaches: Balancing coverage and	
	capacity for wideband technologies	
	The HCM4A software calculations for ECC	
	cross-border recommendations	
	Other aspect of using the HCM4A software for modern IMT systems.	
10:30 – 11:00	modern IMT systems	
	COFFEE BREAK	
11:00 – 12:30	The HCM4A mobile service (IMT) coordination practical application	
	Main elements of GUI	
	 Practical single-entry calculations and reporting 	
	Batch calculations	
	Taking into account more complex conditions	
	for IMT systems coordination	
	Potential use for national spectrum	
	management	
	 Future improvements for fixed service 	
12:30 - 14:00	LUNCH BREAK	
14:00 – 15:15	The HCM4A Agreement future development - opinions	
	exchange	
	Major topics of discussion/feedback collection:	

	 Administrations vs operators responsibility in adhering the HCM4A Agreement Working group on the HCM4A framework Immediate and follow up feedback on the HCM4A software and its future evolution Future trainings on updated HCM4A software 		
15:15 – 15:45	COFFEE BREAK		
15:45 – 17:00	HCM4A software implementation, access modalities and adoption		
	Q&A		
*****END OF DAY 4****			
Day 5: FRIDAY 7 th March 2025			
08:30 - 09:00	Arrival and registration		
09:00 - 10:30	Feedback and discussions		
10:30 - 11:00	COFFEE BREAK		
11:00 – 12:30	Technical Work Group and agreement adoption modalities		
12:30 - 14:00	LUNCH BREAK		
14:00 – 15:15	Closing remarks		
	*****END OF WORKSHOP *****		