APPENDIX-5C-3

AFI Region	**PROJECT DESCRIPTION (DP)**	DP N° AFI AIM/1	
Programme	**Title of the Project**	**Start**	**End**
AIM (**ICAO Programme Coordinator: George Baldeh**)	Implementation of the provision of electronic terrain and obstacle data (e-TOD) (AFI Region) Project coordinator: (NIGERIA)- Mr Felix ANYANWU Experts contributing to the project: ATM/AIM/SAR/SG-14 and APIRG/IIM/SG **Members :** South Africa, Tanzania, Angola, Nigeria etc	1/06/15	31/12/17
Objective	Support the implementation of the provision of e-TOD by AFI States, and provide guidance to States on GIS acquisition and management.		
Scope	The scope of the project contemplates the assessment and identification of implementation levels associated to the provision of electronic terrain and obstacle data. It contemplates the drafting of an Action plan and guides for the implementation of e-TOD to support developments in the provision of electronic terrain and obstacle data for the evolution of digital terrain models (DTM) to gradually improve electronic aeronautical charts and other similar products, with the support of tools such as the Geographical Information Systems (GIS).		
Metrics	• Number of States that have implemented GIS or automated systems. • Guide-document with action plan approved. • Number of States that establish SLAs. • Main International Airports with Area 2 (eTOD) surveyed		
Strategy	The conduction of project activities will be coordinated among project members, the Project Coordinator, and the Programme Coordinator, mainly through teleconferences (GoToMeeting application) and meetings that may be held within other scheduled events, based on the activities of the work programme. The Project Coordinator will coordinate with the Programme Coordinator for the inclusion of additional experts, if warranted by the tasks and works to be executed. The results of the work done will be submitted to the consideration and review of State experts in the form of a final consolidated document for analysis, review, and approval, and for presentation to the APIRG/20 by the Programme Coordinator.		

Goals	Draft the Guide-document containing the objectives of the e-TOD project. 2015. Define the technical and e-TOD project specifications. 2015. Prepare the document containing the e-TOD technical specifications. 2015. Guide on the acquisition of a Geographical Information System (GIS). 2015. GIS implementation Manual. 2015. Available Methodology and tools for surveying Area 2. 2016 Main International Airports with Area 2 surveyed. 2016-2017
Rationale	Compliance with the SARPs of Annexes 15 and 4 to facilitate the execution of performance-based air operations and to advance with the AIS-AIM Transition Roadmap. A close relationship with other projects is needed in order to obtain the operational requirements of the aforementioned applications and their respective tentative dates of implementation.
Related projects	This project is related to Project AFI ANFR B0 30/DATM "Implementation of the Quality Management System in the AIM units" in the AFI Region States.

Project deliverables	**Relationship with the performance-based regional plan (PFF)**	**Responsible party**	**Status of implementation***	**Delivery date**	**Comments**
Survey on the status of e-TOD implementation.	PFF: AFI AIM/1	TBD		31/12/2015	
Generate follow-up report.	PFF: AFI AIM/1	TBD		31/12/2015	
Develop Guide-Document with the objectives of the e-TOD project.	PFF: AFI AIM/1	TBD		31/12/2015	
Define the technical specification of the e-TOD project.	PFF: AFI AIM/1	TBD		31/12/2015	Acquire a mobile Mapper and one day training on the equipment. This is a GPS with a high accuracy as per ICAO requirement. Pick the coordinates of all obstacles which are 100m high within the FIR and publish them. The

					equipment conforms to the accuracy given in annex 15. This will do for area 1
Develop the document with the e-TOD technical specifications.	PFF: AFI AIM/1	TBD		31/12/2015	We have developed specifications for acquiring obstacle data for area 2 which are hereby Attached. This was for our use for awarding the Contract to a consultant.
Guide for the acquisition of a geographical information system (GIS).	PFF: AFI AIM/1	TBD		31/12/2015	For e-TOD we use ERDAS IMAGINE II
GIS implementation manual.	PFF: AFI AIM/1	TBD		31/12/2015	
Present to States the different options available for surveying Area 2	ASBU:BO30 DATM	TBD		31/12/2015	Using a consultant who have the necessary tools to provide data for area 2a,2b,2c,and 2d
Conduct seminars for e-TOD specialists, describing the plans and expected operational and economic benefits.	PFF: AFI AIM/1 ASBU:BO30 DATM	ICAO Coordinator		31/12/2016	*Encourage National initiatives of States to organize seminars to sensitize all e-TOD stakeholders*
Resources required	Designation of experts in the execution of some of the deliverables. More commitment by States to support the designated Coordinators and experts. Funds to conduct the meetings, missions and to translate reports, regional guides and manuals. Likewise, participants must be given facilities to participate in Go To Meetings. Funds to conduct audit trials. States could cover the cost of trials by their lead auditors, since the experience obtained will contribute to improve the system. Likewise, participants must be given facilities to participate in Go-To Meetings.				

**Grey*	*Task not started*
Green	*Activity underway as scheduled*
Yellow	*Activity started with some delay but expected to be completed on time*
Red	*It has not been possible to implement this activity as scheduled; mitigating measures are required*

INFORMAL STRUCTURES COMPLEMENTING THE FORMAL APIRG STRUCTURES:

a) **"Go Teams"** (ICAO/IATA/EUROCONTROL) - Assistance missions of mission-specific experts triggered as and when need is identified. Modus operandi is "blitz" operations over a specific short period (usually for Critical AIM Implementations issues, 1week or less) to effectively resolve a challenge or launch a complex concept. End of the mission is marked by tangible outcomes including ability of the target State/s to progress effectively. Go Teams can be triggered at regional level or by AFI CIS initiatives through RASC Decision 1/02.

b) RASC Decision 1/02 indicates that AIM will be included in the list of Emerging Safety Issues and that AIS/AIM transition forms part of the RASG –AFI ESI-Safety Support Team activities.

OTHER SUPPORTIVE BODIES

c) **Sub-regional bodies** – Entities such as economic bodies (ECOWAS, EAC, SADAC, etc.) have direct and initiative that support implementation. Potential of their initiatives requires increased coordination at strategic and tactical levels

d) **Industry Initiatives** – Users and ANSPs (individually and through representative organization such as IATA and CANSO) have initiatives that support implementation on State by State level, sub-regional or regional levels in support of ICAO objectives