



ICAO

**Twenty-Second Meeting of the AFI Planning and Implementation Regional Group (APIRG/22)
(Accra, Ghana, 29 July– 2 August 2019)**

Agenda Item 2: Performance Framework for Regional Air Navigation Planning and Implementation

**OUTCOME OF THE SECOND MEETING OF THE APIRG INFRASTRUCTURE AND
INFORMATION MANAGEMENT SUB-GROUP (IIM SG/2)**

(Presented by the Chairperson of the APIRG IIM/SG)

SUMMARY
This paper presents the Report on the Second meeting of the APIIRG Infrastructure and Information Management Sub Group (APIRG IIM SG/2) for consideration by APIRG/22.
Action by the meeting is at paragraph 3:
REFERENCE(S): <ul style="list-style-type: none">▪ Doc 9750, <i>Global Air Navigation Plan</i>▪ Doc 7474, <i>Air Navigation Plan — Africa-Indian Ocean Region</i>▪ <i>APIRG Procedural Handbook</i>▪ Report on the Second meeting of the APIIRG Infrastructure and Information Management Sub Group APIRG IIM SG/2
Related ICAO Strategic Objective(s): <i>A – Safety, B – Air Navigation Capacity and Efficiency, D – Economic Development of Air Transport, and E – Environmental Protection.</i>
Related ASBU KPIs & B0 Modules: All applicable to AIM, CNS and MET

1. INTRODUCTION

1.1 The Second meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/2) was held from **09 to 11 July 2018** in the conference room of the ICAO Regional Office for Western and Central Africa, Dakar, Senegal with inter alia, the main objectives to:

- a) Review the Conclusions/Decisions of the First meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/1) held in Nairobi, Kenya from 27 to 30 June 2017
- b) Review the outcome of the APIRG/21 meeting (held in Nairobi, Kenya from 09 to 12 October 2017) pertaining to the areas of Aeronautical Information Management (AIM), Aeronautical Communication Navigation Surveillance and Spectrum (CNS), Aeronautical Meteorology (MET);
- c) Review the status of implementation of the regional projects adopted by APIRG in the above mentioned fields (AIM, CNS and MET) to be implemented based on the ICAO ASBU prioritized related modules selected by the AFI Region;
- d) Review the Terms of Reference (ToRs) and work Programme of the Sub Group.

1.2 The meeting was attended by Forty-Eight (48) participants comprising representatives of Fifteen (15) States, Four (4) Air Navigation Service Providers (ASECNA, ATNS, GCAA, SODEXAM) One (1) international airlines association (IATA).

1.3 Before the deliberation on the Agenda Items, the meeting considered the Terms of Reference (ToRs) of the Sub Group and appointed Mr. **Kinafo Silué**, Chef Service Infrastructure Radioelectrique et Electrique SODEXAM, Côte d'Ivoire as Chairperson and Mrs. **Esther Gaborekwe Khambule**, South African Weather Service as Vice Chairperson.

2. DISCUSSION

2.1 The meeting adopted and discussed Seven (07) agenda items as reflected in the summary of conclusions/decisions in the report of the meeting as presented in **Appendix A** to this working paper.

2.2 The meeting reviewed the Status of implementation of the conclusion and decisions of the first meeting of the APIRG IIM Sub Group held in Nairobi, Kenya from 27 to 30 June 2017.

2.3 The meeting noted with concern, a low pace of implementation of these conclusions/decisions and urged Administration and Organizations to effectively address pending issues identified by IIM/SG/1.

2.4 The meeting also noted a low pace of participation of Administrations/Organizations in the activities of the IIM Projects. It was reported that experts nominated by their Administration were not provided with the adequate resources for their full involvement in the activities of the IIM Sub Group (Projects coordination Teleconferences, Phones call, Meetings....). The meeting advised Administrations/Organizations members of the APIRG/IIM/SG, to assess prior to their commitment, their capability, capacity and availability to ensure an effective participation of their representatives to the IIM activities.

2.5 The meeting was informed on the challenges encountered by the Project Team Coordinators to effectively carry out the coordination tasks through e-tools. It was pointed out the need to update the list of project Teams in order to ensure that the correct details of team members appointed by States are available. The meeting also noted lack of efficient and reliable communication means that may enable an effective participation of project team members to the teleconferences and the meetings.

2.6 Therefore, the meeting tasked the secretariat to update and share the list of contact details of appointed experts confirmed as members of the projects teams, by their respective Administrations/Organizations and urged the Project Team Coordinators to establish improved and effective means of communication that will stimulate and enhance participation by the experts.

2.7 The project teams were urged to finalize the draft Project ToRs, Project Planning, Project description, Project deliverables and time line.

2.8 The Secretariat reported to the meeting the lack of coordination of some IIM projects, namely **AIM Project 2, COM Project 2, Spectrum Project, MET Project 2 and DL CMRA Project**. The Secretariat recalled to the meeting the follow up actions undertaken to ensure either a full participation in the present meeting or the development of a report by projects coordinators to be submitted to the meeting.

2.9 Administrations committed to coordinate the Teams of the following identified Projects, namely, **Cabo Verde (coordinator of DL CMRA Project), Nigeria (coordinator of AIM Project 3 and COM Project**

2), Senegal (coordinator of MET Project 2) and Uganda (coordinator of Spectrum Project 1) were urged to confirm to the APCC with copy to the Secretariat their commitment to effectively lead the respective projects teams they were volunteer to coordinate.

2.10 The meeting was updated with the conclusions and Decisions of the APIRG/21 meeting (held in Nairobi, Kenya from 09 to 12 October 2017) pertaining to the areas of Aeronautical Information Management (AIM), Aeronautical Communication Navigation Surveillance and Spectrum (CNS) and Aeronautical Meteorology (MET).

2.11 The meeting was informed that APIRG/21 confirmed the lack of continuous reporting on the status of implementation of the outcomes of APIRG meetings and urged Administrations to regularly report on the status of implementation of the APIRG meetings outcome through the Air Navigation Reporting Forms (ANRFs).

2.12 The meeting discussed issues related to the update of air navigation deficiencies in the areas of **AIM, CNS, MET** and noted the lack of relevant information provided by Administrations. IATA recalled to have been continuously updating a database on deficiencies in the framework of the APIRG Tactical Action Group (TAG), however, the IIM SG Secretariat was not provided with the deficiencies data collected by the TAG in the above areas. The meeting encouraged States, Organizations and IATA to take the appropriate actions to update, assess and address deficiencies identified in the areas of **AIM, CNS** and **MET** with regard to the AFI air Navigation Plan procedures.

2.13 The meeting examined the status of readiness of the completion of the projects Questionnaires as called upon by the first meeting of the IIM/SG (Decision 1/16: Establishment of project baselines) and noted the need for the development and completion of the Projects Questionnaires by the project Teams with the support of the Secretariat.

2.14 The meeting reviewed the status of implementation of the AFI IIM regional projects adopted by APIRG. In this regards, Project Team Coordinators were requested to report on the status of implementation and on any hurdles encountered in the coordination of the regional projects.

2.15 The meeting commended the reports on the work successfully carried out under the coordination of committed Project Team Coordinators namely, South Africa (coordinating **COM Project 3**), ASECNA on behalf of **Togo** (coordinating **COM Project 4**), **Cote d'Ivoire** (coordinating **COM Project 5**) and **Ghana** (coordinating **SUR Project**) and encouraged the other Project Teams Coordinators to take example of best practices from these well-coordinated IIM Projects.

2.16 The meeting discussed issues related to the mechanisms and opportunities of funding IIM Projects. It was outlined that the mobilization of resources to fund regional project was a challenge that may seriously jeopardize the effective implementation of the APIRG Project Approach Concept, if tangible and sustainable funding solutions are not found. The meeting therefore agreed that the projects description should be updated to include costs estimation in order to make it visible to potential funders/donors.

2.17 The meeting also agreed that the APCC, with the support of RECs and AFCAC, could assist in the funding efforts for the effective implementation of the IIM projects.

2.18 The meeting discussed the issue of the implementation of aeronautical surveillance service in the AFI region taking due account of the deployment of new technologies (**ADS-B Space**) and considering the ICAO provisions on the Performance Based Communication and Surveillance (**PBCS**) Manual (**Doc. 9869 2nd, Ed.**,

2017). In this regard, the meeting agreed on the need to amend the AFI Aeronautical Surveillance implementation strategy and tasked the surveillance Project Team to develop proposals.

2.19 The meeting considered APIRG 21 conclusion 21/33 paragraph c) related to the implementation of surveillance infrastructure in the AFI Region. As the referred conclusion called upon for a study on the modalities for the imposition of a mandate for ADS-B 1090 MHz Mode S "Extended squitter» in the AFI region, the meeting decided that the Terms of Reference of the Surveillance Project Team was to be expanded to conduct the requested study.

2.20 The meeting was informed that ICAO had completed the development and approval of SARPS on Space weather advisory service and noted the improvement and the benefit expected from such service. The meeting noted that the applicability date of the new requirements would be November 2018. Administration/Organizations were encouraged to familiarize with the new SARPS, transpose them in their National Regulation and develop action plan for the implementation of Space weather service.

2.21 The meeting also discussed the need to adopt the principle of Collaborative Decision Making when planning and implementing the IIM Project. In particular, Project teams were encouraged to continuously give priority to consultations amongst stakeholders (Administrations, ANSPs, Users....) to fulfil with the Collaborative Decision Making (CDM) principle as provided by the GANP (Doc 9750).

2.22 The meeting assessed the status of implementation of the tasks called upon by APIRG 21st meeting (**Decision 21/11: Linkage between Projects**) and noted that some Project Teams carried out this task. The meeting also noted that some Project Teams have not yet completed the matrix of linkage between projects in order to facilitate the development of the collaboration mechanism and prevent duplicated overlapping actions between projects. The meeting commended the Teams who have already successfully completed the matrix and encouraged the remaining Teams to go forward for the finalization of the work.

2.23 The Sub Group reviewed, updated and adjusted the Terms of Reference Composition, working methods and work programme of the APIRG IIM Sub-Group revised and completed its work schedule as summarized in the table below.

AFI IIM/SG WORK PROGRAMME

No.	Task Description	Priority	Target Date
1.	Project Coordination (Teleconferences, E-mailings, workshops/Seminars, Meetings)	A	31/08/2018
2.	Description of the Projects (Composition and first Estimated costs)	A	30/09/2018
3.	Determination of Projects linkages	B	30/09/2018
4.	Planning of Projects (Development of time lines and planning)	A	31/10/2018
5.	Determination of Project base line (Compilation of Questionnaires including the expected benefits)	A	31/12/2018
6.	Final Project Cost Estimation	B	31/12/2018
7.	Reporting on project deliverables	C	1 st quarter 2019 then On going

Priority:

- A. High priority tasks, on which work should be speeded up;
- B. Medium priority tasks, on which work should be undertaken as soon as possible, but without detriment to priority A tasks;
- C. Lesser priority tasks, on which work should be undertaken as time and resources permit, but without detriment to priority A and B tasks.

2.24 The meeting was provided with a summary of activities conducted by informal groups in the region. The Secretariat informed the meeting that the following meetings were successfully attended SNMC/25, Freetown, Sierra Leone, 18-22 December 2017, 14th meeting of the SADC/2 VSAT Supervisory Board, Ezulwini, Eswatini, 28-29 March 2018, CNMC/8, SAT/FIT/13 and SAT/23 meetings, Durban, South Africa 04-08 June 2018. The meeting was also informed on the calendar of the next scheduled meeting with agenda related to the IIM/SG activities.

2.25 The meeting reviewed, commented and adopted the draft Conclusions/Decisions of the meeting presented by the Secretariat and attached in **Appendix B** to this working Paper.

3 ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) Take note of the information presented in this working paper, highlighting the work achieved by the APIRG IIM/SG;
- b) Review and approve the conclusions and the Report of APIRG IIM/SG/2

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APPENDIX A:

INTERNATIONAL CIVIL AVIATION ORGANIZATION



Second Meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/2) Dakar, Senegal, 09 – 11 July 2018

Report

Prepared by ICAO Secretariat

August 2018

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PART I

1. Introduction

The Second meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/2) was held from **09 to 11 July 2018** in the conference room of the ICAO Regional Office for Western and Central Africa, Dakar, Senegal.

2. Objectives

The main objectives of the meeting were inter alia to:

- e) Review the Conclusions/Decisions of the First meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/1) held in Nairobi, Kenya from 27 to 30 June 2017
- f) Review the outcome of the APIRG/21 meeting (held in Nairobi, Kenya from 09 to 12 October 2017) pertaining to the areas of Aeronautical Information Management (AIM), Aeronautical Communication Navigation Surveillance and Spectrum (CNS), Aeronautical Meteorology (MET);
- g) Review the status of implementation of the regional projects adopted by APIRG in the above mentioned fields (AIM, CNS and MET) to be implemented based on the ICAO ASBU prioritized related modules selected by the AFI Region;
- h) Review the Terms of Reference (ToRs) and work Programme of the Sub Group.

3. Attendance

3.1 The meeting was attended by Forty-Eight (48) participants comprising representatives of Fifteen (15) States, Four (4) Air Navigation Service Providers (ASECNA, ATNS, GCAA, SODEXAM) One (1) international airlines association (IATA).

A list of participants is provided at **Appendix A**.

4. Officers and Secretariat

4.1 The meeting elected Mr. **Kinafo Silué**, Chef Service Infrastructure Radioelectrique et Electrique SODEXAM, Côte d'Ivoire as Chairperson and Mrs. **Esther Gaborekwe KHAMBULE**, South African Weather Service as Vice Chairperson.

4.2 **Mr. François-Xavier SALAMBANGA**, Regional Officer, Communications, Navigation and Surveillance from the ICAO Regional Office for Western and Central Africa, Dakar and Secretary of the APIRG IIM/SG, acted as Secretary of the meeting and was assisted by Messr **Vitalis AHAGO** and **Harvey Gabriel LEKAMISY**, r Regional Officers MET and CNS respectively, from the ICAO Regional Office of Nairobi and Mr. **George BALDEH**, Regional Officer AIM, ICAO Regional Office of Dakar.

5. Working language

5.1 The meeting was conducted in the English and French languages with simultaneous translation.

6. Opening

6.1 The meeting was opened by **Mr. Mam Sait JALLOW**, Regional Director for the ICAO Western and Central African Office.

6.2 In his address **Mr. JALLOW** reminded the participants, that the work of the IIM/SG involves all of the five ICAO Strategic Objectives namely: Aviation Safety, Capacity and Efficiency of Air Navigation, Aviation Security and Facilitation, Economic Development of Air Transport and Environmental Protection and additionally and encapsulates all the Key Performance Improvement Areas (PIAs) in the ICAO flagship programme, the ASBU threads and modules.

6.3 He recalled that the IIM SG IIM/SG had been tasked with the planning and implementation of the backbone of many air navigation infrastructure and systems, in partnership with all stakeholders, particularly the industry, comprising users, air navigation service providers and aerodrome operators, and other international organizations.

Its main tasks included addressing implementation aspects of Performance Improvement Area 2 (Globally Interoperable Systems and Data) and focusing on the role of digital processing and management of aeronautical information, meteorological information and data link communications in support of the provision of Air Traffic Services (ATS).

6.4 **Mr. JALLOW** underlined that the reorganization with the project management approach of APIRG comes at the heels of the President of ICAO Council's initiative of "***No Country Left Behind***" and "**AFI air navigation services providers' Peer Review mechanism**" and reminded the meeting that the AFI Plan Steering Committee, in coordination with APIRG and RASG-AFI, has adopted a revised set of AFI Air Navigation Performance Targets, a number of which are of relevance to the IIM Sub Group.

6.5 He therefore exhorted the experts and all stakeholders to embrace the change and be part of the efforts towards reversing the negative picture of Africa as a region with an unacceptably high aircraft accident rate and high number of aircraft incidents (even though these are on the decline) and wished to the participants a safe stay in Dakar and fruitful deliberations.

7. Agenda

The meeting adopted the following agenda:

- 7.1 **Agenda Item 1: Adoption of the Agenda, the Work programme and Election of Chairperson and Vice-Chairperson of the Meeting**
 - 7.2 **Agenda Item 2: Review of the Conclusions/Decisions of the First meeting for the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/1)**
 - 7.3 **Agenda Item 3: Review of the outcome of the APIRG/21st meeting**
 - 7.4 **Agenda Item 4: Status of implementation of the regional projects adopted by APIRG**
 - 4.1 AFI Aeronautical Meteorological Regional Projects
 - 4.2 AFI Aeronautical Information Management Regional Projects
 - 4.3 AFI Aeronautical Communication Navigation Surveillance, Infrastructure, Spectrum and Systems Regional Projects
 - 7.5 **Agenda Item 5: Review of the Term of Reference and Work Programme of the APIRG IIM Sub Group**
 - 7.6 **Agenda Item 6: Any other business and Infrastructure Management Sub-Group**
 - 7.7 **Agenda Item 7: Review of the draft Conclusions/Decisions of the Second meeting of the APIRG Information**
8. **Summary of Draft conclusions & decisions**

The meeting was briefed on the new format developed to formulated the conclusion/decision of the meetings as proposed by the ANC.

The following Draft Conclusions and Decisions were formulated by the second meeting of the IIM/SG:

Agenda Item 1: Adoption of the Agenda, the Work programme and Election of Chairperson and Vice-Chairperson of the Meeting

Decision 2/01: Appointment of the Chairperson and Vice-Chairperson of the Meeting	
That; Côte d'Ivoire and South Africa are appointed as Chairperson and Vice Chairperson of the AFPIRG IIM/SG.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To ensure the chairing of the meeting and the coordination of IIM SG activities	

When: 09/07/ 2018 then after	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Agenda Item 2: Review of the Conclusions/Decisions of the First meeting for the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/1)

<u>Conclusion 2/02:</u> <i>Implementation of the outstanding Conclusions and Decisions of the first meeting of the APIRG IIM/SG</i>	
That; Administrations/Organizations that have not done so undertake the effective implementation of the outstanding conclusions and decisions of the APIRG IIM Sub Group.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To effectively address pending issues identified by IIM/SG/1	
When: 31 December 2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

<u>Conclusion 2/03:</u> <i>Effective and efficient participation of Administrations in the IIM Projects activities</i>	
That; Administrations/Organizations members of the APIRG/IIM/SG, assess prior to their commitment, their capability, capacity and availability to ensure an effective participation of their representatives to the activities of the IIM Sub Group (Projects coordination Teleconferences, Phones call, Meetings....) and accordingly provide them with the adequate means for their full involvement.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To ensure a good pace of involvement of States/Organizations in IIM/SG activities	
When: Continuously	Status: Valid
Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

<u>Decision 2/04:</u> <i>Improvement of the coordination mechanisms of the IIM Projects</i>	
That; In order to improve the coordination mechanisms of the IIM Projects: a) The secretariat with the support of the IIM/SG Chair and the Project Teams Coordinators, update and share the list and contact details of appointed experts confirmed as members of the projects teams, by their respective Administrations/Organizations;	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational

<p>b) The Project Team Coordinators establish improved and effective means of communication that will stimulate and enhance participation by the experts;</p> <p>c) The project team finalize the draft Project ToRs, Project Planning, Project description, Project deliverables and time lines;</p> <p>d) The IIM SG Chair and the Secretariat conduct quarterly teleconferences of the Project Team Coordinators to review the progress made in in the project</p> <p>e) The first teleconference will take place not later than 30 September 2018</p>	
Why: To improve the coordination mechanisms of IIM Projects	
When: 30/09/2018 then Continuously	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

<u>Conclusion 2/05: Effective coordination of IIM AIM Project 2, COM Project 2, Spectrum Project, MET Project 2, and DL CMRA Project</u>	
<p>That; As a matter of urgency:</p> <p>a) Cabo Verde (<i>coordinator of DL CMRA Project</i>), Nigeria (<i>coordinator of AIM Project 3 and COM Project 2</i>), Senegal (<i>coordinator of MET Project 2</i>) and Uganda (<i>coordinator of Spectrum Project 1</i>) confirm to the APCC with copy to the Secretariat, their commitment to effectively lead the respective projects teams they were volunteer to coordinate;</p> <p>b) Benin through the assistance of ASECNA tasked to, start as soon as possible the work of the IIM AIM Project 2 and report during the first teleconference;</p> <p>c) States willing to coordinate the above projects express their interest to the Secretariat in case the current nominated States may not be willing to continue the coordination</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
Why: To start the work of identified pending projects	
When: 15 August 2018	Status: Valid

Who: Coordinators States ICAO Secretariat ICAO HQ Others:
ANSPs

Agenda Item 3: Review of the outcome of the APIRG/21st meeting

Conclusion 2/06: Continuous reporting on the implementation of the outcome of APIRG Meetings	
That; Administrations regularly report on the status of implementation of the APIRG meetings outcome through ANRFs	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To have the status of implementation of APIRG Outcome.	
When: Continuously	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Conclusion 2/07: Update of the deficiencies in the areas of AIM, CNS and MET	
That; IATA and concerned Administrations/Organizations take the appropriate actions to update, assess and address deficiencies identified in the areas of AIM, CNS and MET with regard to the AFI air Navigation Plan procedures.	Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To update, assess and address identified AIM CNS And MET deficiencies	
When: as soon as possible	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Decision 2/08: Completion of the Projects Questionnaires	
That; In order to establish the baseline for the implementation of the IIM Projects: a) The Secretariat compile all the projects Questionnaires from the projects Team Coordinators for dissemination to Administration/Organization; b) Administration/Organization complete the questionnaires by 31 10 2018.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To establish the baseline for the implementation of IIM Projects	
When: 31/10/ 2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Agenda Item 4: Status of implementation of the AFI IIM regional projects adopted by APIRG

Conclusion 2/09: Sharing of best Practices	
<p>That;</p> <p>a) The Project Teams Coordinators take example of best practices from the well-coordinated IIM Projects namely, COM Project 3 (<i>coordinated by South Africa</i>), COM Project 4 (<i>coordinated by ASECNA on behalf of Togo</i>), COM Project 5 (<i>coordinated by Cote d'Ivoire</i>) and SUR Project (<i>coordinated by Ghana</i>), to improve their project coordination methodology, complete the pending tasks and report to the Chairperson with copy to the Secretariat;</p> <p>b) South Africa, Côte d'Ivoire, Togo/ASECNA and Ghana provide assistance when needed</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Inter-regional</p> <p><input type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
Why: To take benefit of the best practices in projects coordination	
When: 30/09/2018 then continuously	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Conclusion 2/10: Funding of IIM Projects	
<p>That;</p> <p>In order to facilitate mobilization of resources from potential funders:</p> <p>a) The project description should be updated to include costs estimation;</p> <p>b) The APCC, with the support of RECs and AFCAC assist for the funding effort for the effective implementation of the IIM projects</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input checked="" type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
Why: To mobilize funds for IIM Projects	
When: a) 31 December 2018 b) Preferably during first quarter 2019	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Conclusion 2/11: Amendments to the AFI Aeronautical Surveillance implementation strategy	
<p>That;</p> <p>Considering the deployment of new technologies and the need for a rationalized aeronautical infrastructure, the surveillance Project Team develops proposals for amendments to the AFI Aeronautical Surveillance implementation strategy.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
Why: To rationalize aeronautical infrastructure	
When: 31/12/2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Decision 2/12: Expansion of the ToRs of the surveillance project Team to study the imposition of a mandate for ADS B 1090 MHZ Mode S "Extended squitter" in the AFI region	
That; With reference to conclusion 21/33 of APIRG 21 paragraph c) related to the implementation of surveillance infrastructure in the AFI Region, the Terms of Reference of the Surveillance Project Team is expanded to study the modalities of imposition of a mandate for ADS B 1090 MHZ Mode S "Extended Squitter" in the AFI region within a timeline consistent with the AFI surveillance strategy and global provisions, in a CDM approach with users.	Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To conduct a study by the SUR Project Team, on a mandate for ADS B 1090 MHZ Mode S "Extended Squitter" in the AFI region	
When: 11/07/2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Conclusion 2/13 :Development of action plans for Space weather advisory service	
That; States are encouraged to develop action plans on Space weather service as the SARPs on Space weather information is introduced.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To give advisory information on space weather	
When: 30/11/2018	Status: Valid
Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Conclusion 2/14:Consultations amongst stake holders for planning and implementation	
That; Projects Teams, with regards to the implementation requirements and the AFI strategies, continuously give priority to consultations amongst stakeholders (Administrations, ANSPs, Users....) to fulfil with the Collaborative Decision Making (CDM) principle as provided by the GANP (Doc 9750).	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To ensure CDM	
When: Continuous	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Decision 2/15: Completion of the linkage between Projects
--

That; The project Teams who have not yet done so endeavor to complete the matrix of linkage between projects in order to develop an exhaustive dashboard on all the projects.	Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To be provided with a project dashboard	
When: 30/09/2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Agenda Item 5: Review of the Term of Reference and Work Programme of the APIRG IIM Sub Group

<u>Decision 2/16: Adoption of the Terms of Reference, composition and the workprogramme of the APIRG IIM SG</u>	
That; The updated Terms of Reference, Composition and Workprogramme of the IIM SG is adopted as attached in Appendix E.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To be provided with updated ToRs	
When: 11/07/2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Agenda Item 6: Any other business

Agenda Item 7: Review of the Conclusions/Decisions of the Second meeting of the APIRG Information and Infrastructure Management Sub-Group

PART II

9 Report on Agenda Items

Agenda Item 1: Adoption of the Agenda, the Work programme and Election of Chairperson and Vice-Chairperson of the Meeting

1.1 Under this agenda item, the meeting discussed and adopted the draft agenda and the work programme proposed by the Secretariat and elected Côte d'Ivoire and South Africa to designate its Chairperson and Vice Chairperson.

1.2 In this regards the meeting elected Mr. **Kinafo Silué**, Chef Service Infrastructure Radioelectrique et Electrique SODEXAM, Côte d'Ivoire as Chairperson and Mrs. **Esther Gaborekwe Khambule**, South African Weather Service as Vice Chairperson.

Therefore, the following draft decision was formulated:

Decision 2/01: Appointment of the Chairperson and Vice-Chairperson of the Meeting	
That; Côte d'Ivoire and South Africa are appointed as Chairperson and Vice Chairperson of the APIRG IIM/SG.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To ensure the chairing of the meeting and the coordination the IIM SG activities	
When: 09/07/ 2018 then after	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Agenda Item 2: Review of the Conclusions/Decisions of the First meeting for the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/1)

2.1 Under this agenda item, the Secretariat presented to the meeting (WP02), the Status of implementation of the conclusion and decisions of the first meeting of the APIRG IIM Sub Group held in Nairobi, Kenya from 27 to 30 June 2017.

2.2 Following the review, the meeting noted with concern, a low pace of implementation of these conclusions/decisions and urged Administration and Organizations to effectively address pending issues identified by IIM/SG/1.

The following conclusion was formulated:

Conclusion 2/02: Implementation of the outstanding conclusions and decisions of the first meeting of the APIRG IIM/SG	
That; Administrations/Organizations that have not done so undertake the effective implementation of the outstanding conclusions and decisions of the APIRG IIM Sub Group.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To effectively address pending issues identified by IIM/SG/1	
When: 31 December 2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

2.3 The meeting also noted a low pace of participation of Administrations/Organizations in the activities of the IIM Projects. It was reported that experts nominated by their Administration were not provided with the adequate resources for their full involvement in the activities of the IIM Sub Group (Projects coordination Teleconferences, Phones call, Meetings....). The meeting advised Administrations/Organizations members of the APIRG/IIM/SG, to assess prior to their commitment, their capability, capacity and availability to ensure an effective participation of their representatives to the IIM activities.

The following conclusion was formulated:

Conclusion 2/03: Effective and efficient participation of Administrations in the IIM Projects activities

<p>That;</p> <p>Administrations/Organizations members of the APIRG/IIM/SG, assess prior to their commitment, their capability, capacity and availability to ensure an effective participation of their representatives to the activities of the IIM Sub Group (Projects coordination Teleconferences, Phones call, Meetings....) and accordingly provide them with the adequate means for their full involvement.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input checked="" type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
<p>Why: To ensure a good pace of involvement of States/Organizations in IIM/SG activities</p>	
<p>When: Continuously</p>	<p>Status: Valid</p>
<p>Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs</p>	

2.4 The meeting was informed on the challenges encountered by the Project Team Coordinators to effectively carry out the coordination tasks through e-tools. It was pointed out the need to update the list of project Teams in order to ensure that the correct details of team members appointed by States are available. The meeting also noted lack of efficient and reliable communication means that may enable an effective participation of project team members to the teleconferences and the meetings.

2.5 Therefore, the meeting tasked the secretariat to update and share the list of contact details of appointed experts confirmed as members of the projects teams, by their respective Administrations/Organizations and urged the Project Team Coordinators to establish improved and effective means of communication that will stimulate and enhance participation by the experts. The project teams were urged to finalize the draft Project ToRs, Project Planning, Project description, Project deliverables and time line.

The following Decision was formulated:

<p><u>Decision 2/04: Improvement of the coordination mechanisms of the IIM Projects</u></p>	
<p>That;</p> <p>In order to improve the coordination mechanisms of the IIM Projects:</p> <p>a)The secretariat with the support of the IIM/SG Chair and the Project Teams Coordinators, update and share the list and contact details of appointed experts confirmed as members of the projects teams, by their respective Administrations/Organizations;</p> <p>b)The Project Team Coordinators establish improved and effective means of communication that will stimulate and enhance participation by the experts;</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input checked="" type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>

<p>c) The project team finalize the draft Project ToRs, Project Planning, Project description, Project deliverables and time lines;</p> <p>d) The IIM SG Chair and the Secretariat conduct quarterly teleconferences of the Project Team Coordinators to review the progress made in in the project;</p> <p>e) The first teleconference will take place not later than 30 September 2018.</p>	
Why: To improve the coordination mechanisms of IIM Projects	
When: 30/09/2018 then Continuously	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

2.6 The Secretariat reported to the meeting the lack of coordination of some IIM projects, namely AIM Project 2, COM Project 2, Spectrum Project, MET Project 2 and DL CMRA Project. The Secretariat recalled to the meeting the follow up actions undertaken to ensure either a full participation in the present meeting or the development of a report by projects coordinators to be submitted to the meeting.

2.7 Administrations committed to coordinate the Teams of the above identified Projects, namely, Cabo Verde (coordinator of DL CMRA Project), Nigeria (coordinator of AIM Project 3 and COM Project 2), Senegal (coordinator of MET Project 2) and Uganda (coordinator of Spectrum Project 1) were urged to confirm to the APCC with copy to the Secretariat their commitment to effectively lead the respective projects teams they were volunteer to coordinate.

The following conclusion was formulated:

Conclusion 2/05: Effective coordination of IIM AIM Project 2, COM Project 2, Spectrum Project, MET Project 2, and DL CMRA Project	
<p>That; As a matter of urgency: d) Cabo Verde (<i>coordinator of DL CMRA Project</i>), Nigeria (<i>coordinator of AIM Project 3 and COM Project 2</i>), Senegal (<i>coordinator of MET Project 2</i>) and Uganda (<i>coordinator of Spectrum Project 1</i>) confirm to the APCC with copy to the Secretariat, their commitment to effectively lead the respective projects teams they were volunteer to coordinate;</p> <p>e) Benin through the assistance of ASECNA tasked to, start as soon as possible the work of the IIM AIM Project 2 and report during the first teleconference;</p> <p>f) States willing to coordinate the above projects express their interest to the Secretariat in</p>	<p>Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational</p>

case the current nominated States may not be willing to continue the coordination	
Why: To start the work of identified pending projects	
When: 15 August 2018	Status: Valid
Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

The status of implementation of the Conclusions/Decisions of the First meeting for the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/1) is attached at **Appendix B.**

Agenda Item 3: Review of the outcome of the APIRG/21st meeting

3.1 Under this Agenda Item, the meeting was updated (**WP03A, WP03B, WP03C** and their Appendices) with the conclusions and Decisions of the APIRG/21 meeting (held in Nairobi, Kenya from 09 to 12 October 2017) pertaining to the areas of Aeronautical Information Management (**AIM**), Aeronautical Communication Navigation Surveillance and Spectrum (**CNS**) and Aeronautical Meteorology (**MET**).

3.2 The meeting was informed that APIRG/21 confirmed the lack of continuous reporting on the status of implementation of the outcomes of APIRG meetings and urged Administrations to regularly report on the status of implementation of the APIRG meetings outcome through the Air Navigation Reporting Forms (**ANRFs**).

The following conclusion was formulated:

<u>Conclusion 2/06: Continuous reporting on the implementation of the outcome of APIRG Meetings</u>	
That; Administrations regularly report on the status of implementation of the APIRG meetings outcome through ANRFs	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To have the status of implementation of APIRG Outcome.	
When: Continuously	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

3.3 The meeting discussed issues related to the update of air navigation deficiencies in the areas of AIM, CNS, MET and noted the lack of relevant information provided by Administrations. IATA recalled to have been continuously updating a database on deficiencies in the framework of the APIRG Tactical Action Group (**TAG**), However, the IIM Secretariat was not provided with the deficiencies data collected by the TAG in the above areas. The meeting encouraged States, Organizations and IATA to take the appropriate actions to update, assess and address deficiencies identified in the areas of AIM, CNS and MET with regard to the AFI air Navigation Plan procedures.

The following conclusion was formulated:

<u>Conclusion 2/07: Update of the deficiencies in the areas of AIM, CNS and MET</u>
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That; IATA and concerned Administrations/Organizations take the appropriate actions to update, assess and address deficiencies identified in the areas of AIM, CNS and MET with regard to the AFI air Navigation Plan procedures.	Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To update, assess and address identified AIM CNS And MET deficiencies	
When: as soon as possible	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

3.4 The meeting examined the status of readiness of the completion of the projects Questionnaires as called upon by the first meeting of the IIM/SG (**Decision 1/16: Establishment of project baselines**) and noted the need for the development and completion of the Projects Questionnaires by the project Teams with the support of the Secretariat.

The following Decision was formulated:

Decision 2/08: Completion of the Projects Questionnaires	
That; In order to establish the baseline for the implementation of the IIM Projects: c) The Secretariat compile all the projects Questionnaires from the projects Team Coordinators for dissemination to Administration/Organization; d) Administration/Organization complete the questionnaires by 31 10 2018.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To establish the baseline for the implementation of IIM Projects	
When: 31/10/ 2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

The conclusions and decisions of APIRG/21 meeting related or linked to the scope of APIRG IIM/SG are attached in **Appendix C** to this report

Agenda Item 4: Status of implementation of the AFI IIM regional projects adopted by APIRG

4.1 Under this Agenda item, the meeting was provided (**WP/04A.1, WP/04B.3, WP/04B.4, WP/04B.5, WP/04B.7, WP/04B.8, WP/04C.1**) with the status of implementation of the AFI IIM regional projects adopted by APIRG. In this regards, Project Team Coordinators were requested to report on the status of implementation and on any hurdles encountered in the coordination of the regional projects.

4.2 The meeting commended the reports on the work successfully carried out under the coordination of committed Project Team Coordinators namely; **South Africa** (coordinating COM Project 3), **ASECNA** on behalf of **Togo** (coordinating COM Project 4), **Cote d'Ivoire** (coordinating COM Project 5) and **Ghana** (coordinating SUR Project) and encouraged the other Project Teams

Coordinators to take example of best practices from these well-coordinated IIM Projects. The reports on the activities of the above projects are attached in **Appendix D** to this report.

The following conclusion was formulated:

Conclusion 2/09: Sharing of best Practices	
<p>That;</p> <p>a) The Project Teams Coordinators take example of best practices from the well-coordinated IIM Projects namely, COM Project 3 (coordinated by South Africa), COM Project 4 (coordinated by ASECNA on behalf of Togo), COM Project 5 (coordinated by Cote d'Ivoire) and SUR Project (coordinated by Ghana) to improve their project coordination methodology, complete the pending tasks and report to the Chairperson with copy the Secretariat;</p> <p>b) South Africa, Côte d'Ivoire, Togo/ASECNA and Ghana provide assistance when needed</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Inter-regional</p> <p><input type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
Why: To take benefit of the best practices in projects coordination	
When: 30/09/2018 then continuously	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

4.3 The meeting discussed issues related to the mechanisms and opportunities of funding IIM Projects. It was outlined that the mobilization of resources to fund regional project was a challenge that may seriously jeopardize the effective implementation of the APIRG Project Approach Concept, if tangible and sustainable funding solutions are not found.

4.4 The meeting agreed that the projects description should be updated to include costs estimation in order to make it visible to potential funders/donors.

4.5 The meeting also agreed that the APCC ,with the support of RECs and AFCAC, could assist in the funding efforts for the effective implementation of the IIM projects.

The following conclusion was formulated:

Conclusion 2/10: Funding of IIM Projects	
<p>That;</p> <p>In order to facilitate mobilization of resources from potential funders:</p> <p>a) The project description should be updated to include costs estimation;</p> <p>b) The APCC with the support of RECs and AFCAC assist for the funding effort for the effective implementation of the IIM projects</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input checked="" type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
Why: To mobilize funds for IIM Projects	

When: a) 31 December 2018 b) Preferably during first quarter 2019	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

4.6 The meeting discussed the issue of the implementation of aeronautical surveillance service in the AFI region taking due account of the deployment of new technologies (ADS-B Space) and considering the ICAO provisions on the Performance Based Communication and Surveillance (PBCS) Manual (*Doc. 9869 2nd, Ed., 2017*).

In this regard, the meeting agreed on the need to amend the AFI Aeronautical Surveillance implementation strategy and task the surveillance Project Team to develop proposals.

The following conclusion was formulated:

<u>Conclusion 2/11:</u> Amendments to the AFI Aeronautical Surveillance implementation strategy	
That; Considering the deployment of new technologies and the need for a rationalized aeronautical infrastructure, the surveillance Project Team develops proposals for amendments to the AFI Aeronautical Surveillance implementation strategy.	Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To rationalize aeronautical infrastructure	
When: 31/12/2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

4.7 The meeting considered APIRG 21 conclusion 21/33 paragraph c) related to the implementation of surveillance infrastructure in the AFI Region.

As the referred conclusion called upon for a study on the modalities for the imposition of a mandate for ADS-B 1090 MHz Mode S "Extended squitter" in the AFI region, the meeting decided that the Terms of Reference of the Surveillance Project Team was to be expanded to conduct the requested study.

The following decision was formulated:

<u>Decision 2/12:</u> Expansion of the ToRs of the surveillance project Team to study the imposition of a mandate for ADS B 1090 MHZ Mode S "Extended squitter" in the AFI region	
That; With reference to conclusion 21/33 of APIRG 21 paragraph c) related to the implementation of surveillance infrastructure in the AFI Region, the Terms of Reference of the Surveillance Project Team is expanded to study the modalities of imposition of a mandate for ADS B 1090 MHZ Mode S "Extended Squitter" in the AFI region within a timeline consistent with the AFI surveillance strategy and global provisions, in a CDM approach with users.	Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To conduct a study by the SUR Project Team, on a mandate for ADS B 1090 MHZ Mode S "Extended Squitter" in the AFI region	
When: 11/07/2018	Status: Valid

Who: Coordinators States ICAO Secretariat ICAO HQ Others:
ANSPs

4.8 The meeting was informed that ICAO had completed the development and approval of SARPS on Space weather advisory service and noted the improvement and the benefit expected from such service. The meeting noted that the applicability date of the new requirements would be November 2018. Administration/Organizations were encouraged to familiarize with the new SARPS, transpose them in their National Regulation and develop action plan for the implementation of Space weather service.

The following conclusion was formulated:

Conclusion 2/13 :Development of action plans for Space weather advisory service	
That; States are encouraged to develop action plans on Space weather service as the SARPs on Space weather information is introduced.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To give advisory information on space weather	
When: 30/11/2018	Status: Valid
Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

4.9 The meeting also discussed the need to adopt the principle of Collaborative Decision Making when planning and implementing the IIM Project. In particular, Project teams were encouraged to continuously give priority to consultations amongst stakeholders (Administrations, ANSPS, Users....) to fulfil with the Collaborative Decision Making (CDM) principle as provided by the GANP (Doc 9750).

The following Conclusion was formulated:

Conclusion 2/14:Consultations amongst stake holders for planning and implementation	
That; Projects Teams, with regards to the implementation requirements and the AFI strategies, continuously give priority to consultations amongst stakeholders (Administrations, ANSPS, Users....) to fulfil with the Collaborative Decision Making (CDM) principle as provided by the GANP (Doc 9750).	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To ensure CDM	
When: Continuous	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

4.10 The meeting evaluated the status of implementation of the task called upon by APIRG 21st meeting (**Decision 21/11: Linkage between Projects**) and noted that some Project Teams carried out this task. The meeting also noted that some Project Teams have not yet completed the matrix of linkage between projects in order to facilitate the development of the collaboration mechanism and prevent duplicated overlapping actions between projects.

The meeting commended the Teams who have already successfully completed the matrix and encouraged the remaining Teams to go forward for the finalization of the work.

The following Decision was formulated:

Decision 2/15: Completion of the linkage between Projects	
That; The project Teams who have not yet done so endeavor complete the matrix of linkage between projects in order to develop an exhaustive dashboard on all the projects.	Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To be provided with a project dashboard	
When: 30/09/2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Agenda Item 5: Review of the Term of Reference and Work Programme of the APIRG IIM Sub Group

5.1 Under this agenda item the Sub Group reviewed, updated and adjusted the Terms of Reference Composition, working methods and work programme of the APIRG IIM Sub-Group as presented in **Appendix E** to this report. In particular, the meeting revised and completed the work schedule of the sub group as summarized in the table below:

AFI IIM/SG WORK PROGRAMME

No.	Task Description	Priority	Target Date
8.	Project Coordination (Teleconferences, E-mailings, workshops/Seminars, Meetings)	A	31/08/2018
9.	Description of the Projects (Composition and first Estimated costs)	A	30/09/2018
10.	Determination of Projects linkages	B	30/09/2018
11.	Planning of Projects (Development of time lines and planning)	A	31/10/2018
12.	Determination of Project base line (Compilation of Questionnaires including the expected benefits)	A	31/12/2018
13.	Final Project Cost Estimation	B	31/12/2018
14.	Reporting on project deliverables	C	1 st quarter 2019 then On

Priority:

- A. High priority tasks, on which work should be speeded up;
- B. Medium priority tasks, on which work should be undertaken as soon as possible, but without detriment to priority A tasks;
- C. Lesser priority tasks, on which work should be undertaken as time and resources permit, but without detriment to priority A and B tasks.

The following Decision was formulated:

Decision 2/16: Adoption of the Terms of Reference, composition and the workprogramme of the APIRG IIM SG

That; The updated Terms of Reference, Composition and Work programme of the IIM SG is adopted as attached in Appendix E	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To be provided with updated ToRs	
When: 11/07/2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Agenda Item 6: Any other business

6.1 Under this agenda item the meeting was provided with a summary of activities conducted by informal groups in the region. The Secretariat informed the meeting that the following meetings were successfully attended SNMC/25, Freetown, Sierra Leone, 18-22 December 2017, 14th meeting of the SADC/2 VSAT Supervisory Board, Ezulwini, Estiwani, 28-29 March 2018, CNMC/8, SAT/FIT/13 and SAT/23 meetings, Durban, South Africa 04-08 June 2018.

6.2 The meeting was also informed on the calendar of the next scheduled meeting with agenda related to the IIM/SG activities.

Agenda Item 7: Review of the Conclusions/Decisions of the Second meeting of the APIRG Information and Infrastructure Management Sub-Group

Under this agenda item the participants reviewed, commented and adopted the draft Conclusions/Decisions of the meeting presented by the Secretariat.

APPENDIX B

INTERNATIONAL CIVIL AVIATION ORGANIZATION



**Summary of Draft Conclusions & Decisions of the Second
meeting of the APIRG Infrastructure and Information
Management Sub-Group (IIM/SG/2)
Dakar, Senegal, 09 – 11 July 2018**



ICAO

Draft Conclusions & Decisions of the Second meeting of the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/2), Dakar, Senegal, 09-11 Juillet 2018

Agenda Item 1: Adoption of the Agenda, the Work programme and Election of Chairperson and Vice-Chairperson of the Meeting

<i>Decision 2/01: Appointment of the Chairperson and Vice-Chairperson of the Meeting</i>	
That; Côte d'Ivoire and South Africa are appointed as Chairperson and Vice Chairperson of the AFPIRG IIM/SG.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To ensure the chairing of the meeting and the coordination of IIM SG activities	
When: 09/07/ 2018 then after	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Agenda Item 2: Review of the Conclusions/Decisions of the First meeting for the APIRG Infrastructure and Information Management Sub-Group (IIM/SG/1)

<i>Conclusion 2/02: Implementation of the outstanding Conclusions and Decisions of the first meeting of the APIRG IIM/SG</i>	
That; Administrations/Organizations that have not done so undertake the effective implementation of the outstanding conclusions and decisions of the APIRG IIM Sub Group.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To effectively address pending issues identified by IIM/SG/1	
When: 31 December 2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

<i>Conclusion 2/03: Effective and efficient participation of Administrations in the IIM Projects activities</i>	
That; Administrations/Organizations members of the APIRG/IIM/SG, assess prior to their commitment, their capability, capacity and availability to ensure an effective participation of their representatives to the activities of the IIM Sub Group (Projects coordination	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational

Teleconferences, Phones call, Meetings....) and accordingly provide them with the adequate means for their full involvement.	
Why: To ensure a good pace of involvement of States/Organizations in IIM/SG activities	
When: Continuously	Status: Valid
Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

<u>Decision 2/04: Improvement of the coordination mechanisms of the IIM Projects</u>	
<p>That; In order to improve the coordination mechanisms of the IIM Projects: f) The secretariat with the support of the IIM/SG Chair and the Project Teams Coordinators, update and share the list and contact details of appointed experts confirmed as members of the projects teams, by their respective Administrations/Organizations; g) The Project Team Coordinators establish improved and effective means of communication that will stimulate and enhance participation by the experts; h) The project team finalize the draft Project ToRs, Project Planning, Project description, Project deliverables and time lines; i) The IIM SG Chair and the Secretariat conduct quarterly teleconferences of the Project Team Coordinators to review the progress made in in the project j) The first teleconference will take place not later than 30 September 2018</p>	<p>Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational</p>
Why: To improve the coordination mechanisms of IIM Projects	
When: 30/09/2018 then Continuously	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

<u>Conclusion 2/05: Effective coordination of IIM AIM Project 2, COM Project 2, Spectrum Project, MET Project 2, and DL CMRA Project</u>

<p>That; As a matter of urgency:</p> <p>g) Cabo Verde (<i>coordinator of DL CMRA Project</i>), Nigeria (<i>coordinator of AIM Project 3 and COM Project 2</i>), Senegal (<i>coordinator of MET Project 2</i>) and Uganda (<i>coordinator of Spectrum Project 1</i>) confirm to the APCC with copy to the Secretariat, their commitment to effectively lead the respective projects teams they were volunteer to coordinate;</p> <p>h) Benin through the assistance of ASECNA tasked to, start as soon as possible the work of the IIM AIM Project 2 and report during the first teleconference;</p> <p>i) States willing to coordinate the above projects express their interest to the Secretariat in case the current nominated States may not be willing to continue the coordination</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
<p>Why: To start the work of identified pending projects</p>	
<p>When: 15 August 2018</p>	<p>Status: Valid</p>
<p>Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs</p>	

Agenda Item 3: Review of the outcome of the APIRG/21st meeting

<p><u>Conclusion 2/06: Continuous reporting on the implementation of the outcome of APIRG Meetings</u></p>	
<p>That; Administrations regularly report on the status of implementation of the APIRG meetings outcome through ANRFs</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input checked="" type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
<p>Why: To have the status of implementation of APIRG Outcome.</p>	
<p>When: Continuously</p>	<p>Status: Valid</p>
<p>Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs</p>	

<p><u>Conclusion 2/07: Update of the deficiencies in the areas of AIM, CNS and MET</u></p>	
<p>That; IATA and concerned Administrations/Organizations take the appropriate actions to update, assess and address deficiencies identified in the areas of AIM, CNS and MET with regard to the AFI air Navigation Plan procedures.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input checked="" type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
<p>Why: To update, assess and address identified AIM CNS And MET deficiencies</p>	

When: as soon as possible	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Decision 2/08: Completion of the Projects Questionnaires

<p>That;</p> <p>In order to establish the baseline for the implementation of the IIM Projects:</p> <p>e) The Secretariat compile all the projects Questionnaires from the projects Team Coordinators for dissemination to Administration/Organization;</p> <p>f) Administration/Organization complete the questionnaires by 31 10 2018.</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input type="checkbox"/> Inter-regional</p> <p><input checked="" type="checkbox"/> Economic</p> <p><input checked="" type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
Why: To establish the baseline for the implementation of IIM Projects	
When: 31/10/ 2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Agenda Item 4: Status of implementation of the AFI IIM regional projects adopted by APIRG**Conclusion 2/09: Sharing of best Practices**

<p>That;</p> <p>c) The Project Teams Coordinators take example of best practices from the well-coordinated IIM Projects namely, COM Project 3 (<i>coordinated by South Africa</i>), COM Project 4 (<i>coordinated by ASECNA on behalf of Togo</i>), COM Project 5 (<i>coordinated by Cote d'Ivoire</i>) and SUR Project (<i>coordinated by Ghana</i>), to improve their project coordination methodology, complete the pending tasks and report to the Chairperson with copy to the Secretariat;</p> <p>d) South Africa, Côte d'Ivoire, Togo/ASECNA and Ghana provide assistance when needed</p>	<p>Expected impact:</p> <p><input type="checkbox"/> Political / Global</p> <p><input checked="" type="checkbox"/> Inter-regional</p> <p><input type="checkbox"/> Economic</p> <p><input type="checkbox"/> Environmental</p> <p><input checked="" type="checkbox"/> Technical/Operational</p>
Why: To take benefit of the best practices in projects coordination	
When: 30/09/2018 then continuously	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Conclusion 2/10: Funding of IIM Projects

<p>That; In order to facilitate mobilization of resources from potential funders: c) The project description should be updated to include costs estimation; d) The APCC, with the support of RECs and AFCAC assist for the funding effort for the effective implementation of the IIM projects</p>	<p>Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational</p>
Why: To mobilize funds for IIM Projects	
<p>When: a) 31 December 2018 b) Preferably during first quarter 2019</p>	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Conclusion 2/11: Amendments to the AFI Aeronautical Surveillance implementation strategy

<p>That; Considering the deployment of new technologies and the need for a rationalized aeronautical infrastructure, the surveillance Project Team develops proposals for amendments to the AFI Aeronautical Surveillance implementation strategy.</p>	<p>Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational</p>
Why: To rationalize aeronautical infrastructure	
<p>When: 31/12/2018</p>	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Decision 2/12: Expansion of the ToRs of the surveillance project Team to study the imposition of a mandate for ADS B 1090 MHZ Mode S "Extended squitter" in the AFI region

<p>That; With reference to conclusion 21/33 of APIRG 21 paragraph c) related to the implementation of surveillance infrastructure in the AFI Region, the Terms of Reference of the Surveillance Project Team is expanded to study the modalities of imposition of a mandate for ADS B 1090 MHZ Mode S "Extended Squitter" in the AFI region within a timeline consistent with the AFI surveillance strategy and global provisions, in a CDM approach with users.</p>	<p>Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational</p>
Why: To conduct a study by the SUR Project Team, on a mandate for ADS B 1090 MHZ Mode S "Extended Squitter" in the AFI region	
<p>When: 11/07/2018</p>	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Conclusion 2/13 :Development of action plans for Space weather advisory service

That; States are encouraged to develop action plans on Space weather service as the SARPs on Space weather information is introduced.	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To give advisory information on space weather	
When: 30/11/2018	Status: Valid
Who: <input type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Conclusion 2/14: Consultations amongst stake holders for planning and implementation	
That; Projects Teams, with regards to the implementation requirements and the AFI strategies, continuously give priority to consultations amongst stakeholders (Administrations, ANSPs, Users....) to fulfil with the Collaborative Decision Making (CDM) principle as provided by the GANP (Doc 9750).	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To ensure CDM	
When: Continuous	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Decision 2/15: Completion of the linkage between Projects	
That; The project Teams who have not yet done so endeavor to complete the matrix of linkage between projects in order to develop an exhaustive dashboard on all the projects.	Expected impact: <input type="checkbox"/> Political / Global <input checked="" type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To be provided with a project dashboard	
When: 30/09/2018	Status: Valid
Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs	

Agenda Item 5: Review of the Term of Reference and Work Programme of the APIRG IIM Sub Group

Decision 2/16: Adoption of the Terms of Reference, composition and the workprogramme of the APIRG IIM SG	
That; The updated Terms of Reference, Composition and Workprogramme of the IIM SG is adopted as attached in Appendix xx	Expected impact: <input type="checkbox"/> Political / Global <input type="checkbox"/> Inter-regional <input checked="" type="checkbox"/> Economic <input checked="" type="checkbox"/> Environmental <input checked="" type="checkbox"/> Technical/Operational
Why: To be provided with updated ToRs	
When: 11/07/2018	Status: Valid

Who: <input checked="" type="checkbox"/> Coordinators <input checked="" type="checkbox"/> States <input checked="" type="checkbox"/> ICAO Secretariat <input type="checkbox"/> ICAO HQ <input checked="" type="checkbox"/> Others: ANSPs
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Agenda Item 6: Any other business

**Agenda Item 7: Review of the Conclusions/Decisions of the Second meeting of the APIRG
Information and Infrastructure Management Sub-Group**