International Civil Aviation Organization

Seventh Meeting of the Aerodrome Safety, Planning & Implementation Group

(ASPIG/7) (Riyadh, Saudi Arabia, 6-10 April 2025)

Agenda Item 3: Regional Performance Framework for Aerodrome Capacity and Efficiency

ACDM IMPLEMENTATION IN THE MID REGION

(Presented by the Secretariat)

SUMMARY

This working paper outlines the status of A-CDM implementation in the MID Region and highlights the rationale for establishing or not a Regional A-CDM Task Force (ACDM-TF).

Action by the meeting is at paragraph 3.

REFERENCES

- ICAO GANP 7th Edition
- ASPIG Reports
- MIDANPIRG/21 & RASG-MID/11 Report

1. Introduction

1.1 Airport Collaborative Decision Making (A-CDM) is a collaborative process that involves coordination among airport operators, airlines, ground handlers, air traffic control, and other stakeholders. The primary objective is to enhance operational efficiency, reduce delays, and improve safety at airports.

2. DISCUSSION

Establishment of the ACDM Tak Force in the MID Region

- 2.1 The meeting is invited to review and, as appropriate, update the status of A-CDM implementation in the MID Region, as outlined in **Appendix A**. This reflects the agreed applicability area among MID States.
- 2.2 The meeting may wish to note that the MIDANPIRG/21 & RASG-MID/11 meeting agreed on the establishment of a Regional ACDM Task Force (ACDM-TF) to support and assist in the implementation of ACDM in the MID Region pending a confirmation of the ASPIG considering the fact that MIDANPIRG having many sub-groups under it and, as deemed feasible, optimizing the number of subsidiary bodies became a priority
- 2.3 The meeting may wish to note that the MIDANPIRG/21 & RASG-MID/11 Meeting reviewed the proposed Terms of Reference (ToRs) of the ACDM Task Force at **Appendix B** and agreed that the TORs be updated to include the potential coordination with the ATFM Task Force once the ACDM Task Force reach the maturity facilitating such coordination. Accordingly, the meeting agreed on the following Decision:

PIRG/RASG DECISION 3: ESTABLISHMENT OF THE MID REGION ACDM TASK FORCE (MID ACDM-TF)

That, the MID Region Airport Collaborative Decision-Making Task Force (MID ACDM-TF) be established, subject to review and confirmation of ASPG/6, in accordance with the Terms of Reference at Appendix 2A.

2.4 The meeting may wish to review the decision to have a dedicated Taskforce for the management of the ACDM implementation in the MID Region. Alternatively, the meeting may wish to note that the effectiveness of Airports ACDM systems should be continuously monitored to ensure their contribution to maintaining safe and regular operations under both normal and adverse conditions.

2.5

2.6 and confirm the ToRs of the ACDM Task Force at **Appendix B**. The meeting may wish to note that the ICAO MID Office would coordinate the ACDM Task Force activities with the concerned MID States as per the applicability Area that been defined on the Regional Air Navigation Plan.

Monitoring of the ACDM Implementation in the MID Region

- 2.7 The meeting may wish to review and update the action milestones in **Appendix C**, which serve as a planning and implementation guide to be tailored by individual States.
- 2.8 Additionally, States are invited to review and utilize the updated monitoring template at **Appendix D** to track A-CDM implementation progress in their respective airports.
- 2.9 In line with MIDANPIRG's objective to optimize the number of subsidiary bodies, the meeting may wish to consider the deployment of a dedicated AOP Thread Go-Team, as a more agile and resource-efficient alternative to the establishment of a standalone A-CDM Implementation Task Force.
- 2.10 The meeting mat wish to note that this Go-Team would provide targeted support to States and stakeholders in both the establishment and performance monitoring of A-CDM systems, ensuring alignment with ICAO guidance and regional priorities. The meeting may further wish to emphasize that the effectiveness of implemented A-CDM systems should be continuously assessed to ensure their sustained contribution to safe, efficient, and resilient airport operations under all operational scenarios.
- 2.11 Furthermore, the same Go-Team may also be tasked with supporting the implementation and follow-up of Advanced Surface Movement Guidance and Control Systems (A-SMGCS), thereby maximizing the efficient use of available expertise and resources. The meeting may further wish to emphasize that the effectiveness of both A-CDM and A-SMGCS systems should be continuously assessed to ensure their sustained contribution to safe, efficient, and resilient airport operations under all operational scenarios.

3. ACTION BY THE MEETING

- 3.1 The meeting is invited to:
 - a) urge concerned States to foster the Implementation of the ACDM in their concerned Airport, and
 - b) review and agree to the following Draft Conclusion replacing and superseding the previous MIDANPIRG CONCLUSION 18/27:

Why	to efficiently monitor the ACDM Implementation progress in the MID Region
What	Airports ACDM Implementation Progress submitted by States using the NEW Template as at Appendix A, in full collaboration with their concerned Airports
Who	States/Airports
When	By Q3 of the current Year

DRAFT CONCLUSION 7/9: MID ACDM IMPLEMENTATION PROGRESS

That, with reference to the sample of Action Millstones on ACDM Planning and Implementation at Appendix C, States be urged to provide, by Q3 of the current Year, to the ICAO MID Office, with the progress of Airports ACDM Deployment Plans, as confirmed by Airports included in the RANP Applicability Area, using the Template at Appendix D,

c) review and agree to the following Draft Conclusion:

Why	provide targeted support to States and stakeholders in both the establishment and performance monitoring of A-CDM and A_SMGCS systems
What	AOP Go-Team
Who	Concerned States
When	Q3 of the current Year

DRAFT CONCLUSION 7/10: ESTABLISHMENT ASSISTANCE AND PERFORMANCE MONITORING OF AOP THREADS

That, in order to support States in the establishment of AOP Threads, and to facilitate the monitoring of the performance of implemented A-CDM and A-SMGCS systems for planning and follow-up purposes, concerned States be encouraged to confirm, no later than the , by Q3 of the current year and upon notification by the ICAO MID Office of the selected aerodromes, their acceptance to host AOP Go-Team missions, and to ensure the necessary coordination and facilitation of these missions in collaboration with the designated aerodromes.

Aerodromes Readiness for ACDM Operations based on the MID Region ACDM Implemention Plan

State	Country Code	Total # of AD as defined in the Applicabilty Area	City	Aerodrome Name (AOP Table I-I)	Location Indicator (AOP Table I-I)	Designation (AOP Table I- 1)	Referen Number		Aerodi	rome Traffic D	Heavy	Information Sharing	Milestones Approach	Variable Taxi Time	Collaborative Management of Flight Updates	Collaborative Pre- departure Sequence	ACDM in Adverse Conditions	ACDM Elements Implementation Progress
Bahrain	BHR	1	Manama	Bahrain International Airport	OBBI	RS	4	F				⊘	⊘	8	⊘	Ø	×	66.67%
Egypt	EGY	1	Cairo	CAIRO INTERNATIONAL AIRPORT	неса	RS	4	F				⊘	⊘	8	8	&	8	33.3%
Iran	IRN	1	Tahran	Mehrabad International Airport	OIII	RS	4	E				8	8	8	8	8	8	0.00%
Kuwait	кwт	1	Kuwait	Kuwait International Airport	ОКВК	RS	4	F				8	8	8	8	8	8	0.00%
Oman	OMN	1	Muscat	Muscat International Airport.	OOMS	RS	4	F				⊘	8	⊘	8	②	8	50.00%

Aerodromes Readiness for ACDM Operations based on the MID Region ACDM Implemention Plan

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State	Country Code	Total # of AD as defined in the Applicabilty Area	City	Aerodrome Name (AOP Table I-I)	Location Indicator (AOP Table I-I)	Designation (AOP Table I- 1)	IC Referen	AO nce Code Letter	Aerodr Light	ome Traffic D	Density Heavy	Information Sharing	Milestones Approach	Variable Taxi Time	Collaborative Management of Flight Updates	Collaborative Pre- departure Sequence	ACDM in Adverse Conditions	ACDM Elements Implementation Progress
Qatar	QAT	1	Duha	Hamad International Airport	ОТНН	RS	4	F				⊘	⊘	⊘	⊘	⊘	⊘	100.00%
			Jeddah	King Abdulaziz International Airport	OEJN	RS	4	F				⊘	⊘	⊘	>	>	②	100.00%
Saudi Arabia	SAU	2	Riyadh	King Khalid International Airport	OERK	RS	4	E				⊘	⊘	⊘	⊘	>	Ø	100.00%
UAE	ARE	2	Abu Dhabi	Zayed International Airport	OMAA	RS	4	F				⊘	⊘	⊘	⊘	>	⊘	100.00%
UAE	ARE	2	Dubai	Dubai International Airport	OMBD	RS	4	F				⊘	⊘	⊘	⊘	⊘	8	83.33%

Aerodromes Readiness for ACDM Operations based on the MID Region ACDM Implemention Plan Total # of AD as defined in **ACDM Elements** Collaborative **Collaborative Pre-**ACDM in Adverse Information Sharing Milestones Approach Variable Taxi Time Management of Flight Implementation departure Sequence Conditions Applicabilty Area Updates Progress MID REGION

MID Region

Airports Collaborative Decision-Making Task Force

(MID ACDM-TF)

Terms of Reference

1. SCOPE

The scope and objective of the MID ACDM-TF is to identify, plan and assist in the implementation of A-CDM at the list of Airports concerned by the ACDM Implementation, as defined on the MID Regional Air Navigation Plan (ACDM applicability area agreed by the MID States).

2. PURPOSE:

The purpose of the Regional Task Force is to enhance the MID Region Airports preparedness for the ACDM Implementation. The task force will provide technical assistance, guidance, and support for Airports to ensure the successful implementation of ACDM processes and tools.

3. COMPOSITION:

The Regional Task Force will be composed ACDM Experts from different ICAO Partners who will be meeting with the concerned representatives from individual State defined within the ANP ACDM applicability Area, as well as with their Airport Stakeholders, including airlines, ground handlers, air traffic control, and airport operators. The task force will be chaired by a representative from the States defined within the ACDM applicability Area.

4. ROLES AND RESPONSIBILITIES:

The Regional Task Force will have the following roles and responsibilities:

- a) Assist, support and enhance the MID Region Airports preparedness for the ACDM Implementation,
- b) Review the Current status of ACDM Implementation Plan in MID Region,
- c) Check the Readiness of the newly Implemented Elements/Enablers of any ACDM Project,
- d) Review the effectiveness of existing Airports ACDM projects in the MID Region,
- e) Assist, as requested, the implementation of coordination procedures between Airports and relevant stakeholders:
 - i. Facilitate the exchange of information and best practices between airport stakeholders to ensure that stakeholders are aware of the latest developments in ACDM processes, tools, and technologies,
 - ii. Provide guidance and support for the implementation of ACDM processes, including training and education for Airport and relevant stakeholders,
 - iii. Monitor the implementation of ACDM processes and evaluate their effectiveness to identify areas for improvement,
 - iv. Ensure that ACDM processes are achieving their intended objectives, including optimizing the use of airport resources, reducing delays, and enhancing safety.

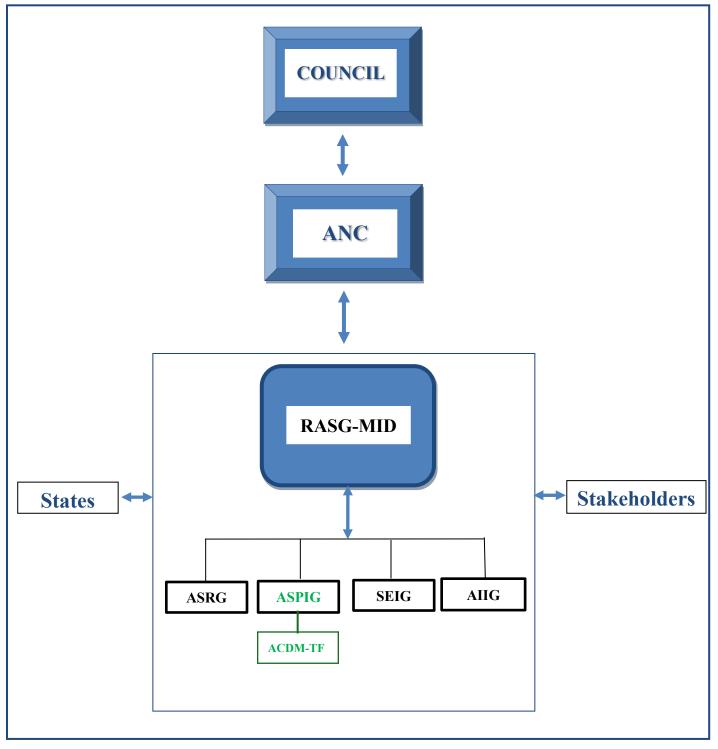
5. MEETINGS AND REPORTING:

The Regional Task Force will meet on a regular basis to discuss the implementation of ACDM processes and tools. The task force will produce regular progress reports and provide recommendations for improvements to airport stakeholders.

6. WORKING METHODS:

The Task force meeting should be held at least once a year for three-days.

MID ACDM-TF reflected on The RASG-MID ORGANIZATIONAL STRUCTURE



ASRG	Annual Safety Report Group	SEIG	Safety Enhancement Implementation Group
ASPIG	Aerodromes Safety & Planning Implementation Group	AIIG	Accident & Incident Investigation Group
ACDM-TF	Airport Collaborative Decision Making Task Force		

Action Milestones

for the MID ACDM Planning and Implementation

State/:	
State ACDM Focal Point Name/email:	
Approach to implementation	
1. Is the A-CDM implementation a national program/project or a local a project? (Please select the applicable box)	irport by airport
It is a national program where A-CDM is being implemented at several airports with one entity managing the overall program to facilitate common procedures and approach to the implementations	
It is an "airport-by-airport" approach where each project is managed at "local" level	
It is a combination of a national program and separate airport projects manager at "local" level	
There is not yet an implementation plan for A-CDM	
Please add free text comments if needed:	
2. If A-CDM has been/is Implemented / going to be implemented, please airports and by what year:	indicate at which
Airport	Year
Add additional lines as needed	1

A-CDM Implementation Plan

Status of A-CDM implementation

3. In which of the following phases is the A-CDM implementation?

(Please select the box that is the most suitable option)

No planning, i.e. nothing in relation to A-CDM has started yet	
Initial planning, i.e. collecting information about guidance material etc. to set the	
scope of the projects	
Planning well underway, i.e. scope set, engaged with stakeholders etc.	
Ready to launch A-CDM implementation project	
A-CDM implemented, i.e. procedures are in place and used in the "day-to-day"	
operations (Please indicate number of years for A-CDM used in day-to-day	
operations.	

A-CDM Project Scope

4. Which one of the A-CDM conceptual elements are being implemented as part of the A-CDM project? (*Please select the applicable box(es)*)

Information sharing	
Milestone Management	
Variable Taxi Times	
Collaborative Management of Flight Updates	
Pre Departure Sequencing	
A-CDM in adverse conditions	
Integration with Air Traffic Flow Management (ATFM)	

<i>Please add free text</i>	comments if needed:
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5. How is Information sharing implemented as par to the solution/planned A-CDM solution? (Please select the applicable box(es))

Via Information Sharing platform collecting data in real-time from various systems.	
Via manual interaction and information exchange	
A combination of the two alternatives above	

Please add free text comments if needed:

6. What Milestones (based on the Eurocontrol model) are captured/planned to be captured for the Milestone Management? (Please select the applicable box(es) and please indicate if the implementation/planned implementation uses any other names for the milestones)

Eurocontrol Milestones	Applied	Alternative name
Milestone 1 - ATC Flight Plan Activated		
Milestone 2 - CTOT Allocation/EOBT – 2		
Hrs		

Milastona 2 Talas off for Out to	
Milestone 3 - Take off from Outstation	
Milestone 4 - Local Radar Update/FIR Entry	
Milestone 5 - Final Approach	
Milestone 6 - Landed	
Milestone 7 - In Block	
Milestone 8 - Aircraft at Gate	
Milestone 9 - TOBT Entered	
Milestone 10 - TSAT Issued	
Milestone 11 - Boarding Starts	
Milestone 12 - Aircraft Ready	
Milestone 13 - Start-up Request	
Milestone 14 - Start-up Approved	
Milestone 15 - Off Block	
Milestone 16 - Take Off	
7. Are you planning to apply the concept of Ta (Please select the applicable box)	arget Off Block Times?
No	
Yes, and this will be the responsibility of the Airlin	
Handlers to manage and update the Target Off Block	ck Times (TOBT) in order to
ensure that TOBT is accurate and reliable.	
a. If yes, will the project provide a soluti	ion that facilitates predictive TOBT calculations?
(Please select the applicable box)	ion that racintates predictive 13B1 calculations.
No	ion that facilitates predictive 1981 calculations.
, , , , , , , , , , , , , , , , , , , ,	ion that racintates productive 1981 calculations.
No Yes 8. What methodology is applied/going to be ap (Please select the applicable box) "Table look up" utilizing fixed taxi time from gates	oplied for calculating Variable Taxi Time?
No Yes 8. What methodology is applied/going to be ap (Please select the applicable box) "Table look up" utilizing fixed taxi time from gates Dynamic Variable Taxi Time using self-learning al	oplied for calculating Variable Taxi Time?
No Yes 8. What methodology is applied/going to be ap (Please select the applicable box) "Table look up" utilizing fixed taxi time from gates	oplied for calculating Variable Taxi Time?
No Yes 8. What methodology is applied/going to be ap (Please select the applicable box) "Table look up" utilizing fixed taxi time from gates Dynamic Variable Taxi Time using self-learning al and statistical surveillance data 9. How is Target Start-Up Approval Time (Ts Sequencing?	pplied for calculating Variable Taxi Time? s to runways. Igorithms based on real-time
No Yes 8. What methodology is applied/going to be ap (Please select the applicable box) "Table look up" utilizing fixed taxi time from gates Dynamic Variable Taxi Time using self-learning al and statistical surveillance data 9. How is Target Start-Up Approval Time (Ts	pplied for calculating Variable Taxi Time? s to runways. Igorithms based on real-time
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No Yes 8. What methodology is applied/going to be ap (Please select the applicable box) "Table look up" utilizing fixed taxi time from gates Dynamic Variable Taxi Time using self-learning al and statistical surveillance data 9. How is Target Start-Up Approval Time (To Sequencing? (Please select the applicable box) Manual TSAT calculations Automatic TSAT calculations utilizing a Pre Depart Departure Management system/capability a. If TSAT Is calculated automatically, at	s to runways. Igorithms based on real-time SAT) being calculated as part of Pre-Departure rture Sequence or full what key milestones are the TSAT calculated/re-

Milestone 3 - Take off from Outstation	
Milestone 4 - Local Radar Update/FIR Entry	
Milestone 5 - Final Approach	
Milestone 6 - Landed	
Milestone 7 - In Block	
Milestone 8 - Aircraft at Gate	
Milestone 9 - TOBT Entered	
Milestone 10 - TSAT Issued	
Milestone 11 - Boarding Starts	
10. How TSAT information is shared to Airlines operators/Ground	Handling Agencies?
(Please select the applicable box(es))	
Via A-CDM portal/web interface/application	
Via mobile application	
Via Automatic Parking Aid displays at gate	
Data link	
Radio communication	
12. To establish the A-CDM project, has any guidance material been scope and objectives?	n used to facilitate the
12. To establish the A-CDM project, has any guidance material been scope and objectives? (Please select the applicable box)	n used to facilitate the
scope and objectives? (Please select the applicable box)	n used to facilitate the
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scope and objectives? (Please select the applicable box) Yes No a. If yes, please indicate what guidance material has been used. box(es)) ICAO Doc 9971 Eurocontrol A-CDM Manual CANSO A-CDM Guidance Material FAA Surface CDM material IATA Guidance material Specific airport "operational guidelines" materials Other material like Eurocae or ETSI standards for A-CDM (Please specifical actions) Cocal Concept of Operations	(Please select the applicat

Yes No

	cable box(es))
It sets out the objectives that A-CDM is aiming to achieve	
It provides a common vocabulary with all definitions for A-CDM	
It provides information about information sharing and the sources for the	
information collected	
It provides information about the milestones used in the A-CDM process	
It defines each participating stakeholder's role and responsibilities as part of the	
A-CDM process	
It provides how A-CDM shall operate during irregular operations	
It provides descriptions of the process steps for various regular and irregular	
operations	
It includes how to measure the success of A-CDM once implemented, i.e. Key	
Performance Indicators (KPIs)	
Please add free text comments if needed:	
Stakeholder Engagement	
14. Which stakeholders are involved in the A-CDM implementation?	
(Please select the applicable box(es))	
(1 rease select the approvate con(es))	
Airport operator	
Airline operators	
Ground handlers	
Air Navigation Service Provider	
Network Operations/ATFM unit	
Others (Please specify)	
15. Has a Memorandum of Understanding (MOU) been established between the	ne stakeholders?
(Please select the applicable box)	
TV	
Yes	
No	
Please add free text comments if needed:	
r lease dad tree lext comments it needed.	
The state of the s	
Project Implementation	
Project Implementation 16. Has a project group been established with all stakeholders involved?	
Project Implementation	
Project Implementation 16. Has a project group been established with all stakeholders involved? (Please select the applicable box)	
Project Implementation 16. Has a project group been established with all stakeholders involved? (Please select the applicable box) Yes	
Project Implementation 16. Has a project group been established with all stakeholders involved? (Please select the applicable box)	
Project Implementation 16. Has a project group been established with all stakeholders involved? (Please select the applicable box) Yes No	
Project Implementation 16. Has a project group been established with all stakeholders involved? (Please select the applicable box) Yes	
Project Implementation 16. Has a project group been established with all stakeholders involved? (Please select the applicable box) Yes No	
Project Implementation 16. Has a project group been established with all stakeholders involved? (Please select the applicable box) Yes No	
Project Implementation 16. Has a project group been established with all stakeholders involved? (Please select the applicable box) Yes No	ization?
Project Implementation 16. Has a project group been established with all stakeholders involved? (Please select the applicable box) Yes No Please add free text comments if needed:	ization?
Project Implementation 16. Has a project group been established with all stakeholders involved? (Please select the applicable box) Yes No Please add free text comments if needed: 17. Is there a shared leadership or is the project management led by one organ	ization?

Leadership is appointed from one organization	
a. Please explain why one of the options is applied:	
18. Is the project group meeting held on a regular basis or ad-hoc? (Please select the applicable box)	
Regular	
Ad-hoc	
a. Please explain why one of the options is applied:	
19. What are the objectives identified in the project that A-CDM is aiming (Please select the applicable box(es))	g to achieve?
Increase predictability	
Increase on-time performance	
Improve resource utilization	
Reduce taxi times	
Increase airport efficiency	
Reduce environmental nuisance	
Optimise the use of available capacity	
Improved safety	
Other (please indicate what other objectives are identified in box below)	
Please add free text comments if needed:	
20. Has the project identified a more detailed Key Performance Fr Performance Indicators to facilitate the measurements of the A-CDM (Please select the applicable box)	•
Yes	
No No	
	ch as the establishmen
No a. If yes, would the project team be willing to share this work with the I for Aerodromes and Ground Aids (AGA) to aid in its future work such	ch as the establishmen
 a. If yes, would the project team be willing to share this work with the I for Aerodromes and Ground Aids (AGA) to aid in its future work such of more detailed A-CDM guidelines? (Please select the applicable between the content of th	ch as the establishmen
A. If yes, would the project team be willing to share this work with the I for Aerodromes and Ground Aids (AGA) to aid in its future work suc of more detailed A-CDM guidelines? (Please select the applicable by Yes No	ch as the establishment
A. If yes, would the project team be willing to share this work with the I for Aerodromes and Ground Aids (AGA) to aid in its future work suc of more detailed A-CDM guidelines? (Please select the applicable by Yes	ch as the establishment

Training

21. Has the project established training in any of the following areas for the implementation of A-CDM?

(Please select the applicable box(es))

Initial training for stakeholders to "what is A-CDM"	
Advanced training for stakeholders to "what is A-CDM"	
Training on how to operate under A-CDM procedures for all stakeholders	
Specialized/tailored training for each user in relation to "what do I need to do	
when A-CDM is operational at the airport"?	

	Please	add fre	e text	comments	if	needea	l:
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Challenges

22. Please rank what hold most true in relation to your A-CDM implementation.

(Please use 1-5 where 1 indicates "no, do not agree at all" and 5 is "yes, agree completely").

A-CDM as a concept is too complicated and vague	
Developed guidelines are not enough to understand how A-CDM shall be	
implemented successfully	
It is challenging to understand what an A-CDM implementation is, i.e. what has to	
be achieved to say "yes, we have A-CDM at our airport"	
The challenge is to understand what system(s) is(are) and information are needed	
to implement A-CDM	
It is challenging to get all stakeholders engaged and committed to the A-CDM	
project	
It is challenging to manage the A-CDM project	
It is challenging to understand what value A-CDM will bring	
It is very complicated to establish how to measure the success of A-CDM	

It is very complicated to establish how to measure the success of A-CDM	
Please add free text comments if needed:	
END	