

## 1. Project Identification

AFI Region	PROJECT DESCRIPTION (DP)	DP N° AFI-WARN	
Programme	Title of the Project	Start	End
<b>AREA: MET</b>  <b>Programme Facilitator: RO MET</b>	<b>AFI-WARN:</b> Strengthening Wind Shear Warning Capabilities for Safer Aviation Operations in the AFI Region  <b>Project coordinator:</b> [Name of the Project Coordinator]	<b>01/01/2026</b>	<b>30/09/2027</b>
<b>Rationale</b>	<ul style="list-style-type: none"> <li>• Wind shear poses a serious hazard to aircraft during takeoff and landing.</li> <li>• Many AFI States lack operational WS detection systems and trained personnel to provide timely warnings.</li> <li>• ICAO Annex 3 requires States to provide WS warnings at aerodromes where warrant conditions, yet capacity and infrastructure remain uneven across the region.</li> <li>• This project aims to address these gaps by providing technical support, capacity building, and harmonized procedures.</li> </ul>		
<b>Objective</b>	To support AFI States in implementing ICAO Annex 3 provisions related to wind shear detection and warning, enhancing aviation safety through timely and accurate WS information at airdromes.		
<b>Scope</b>	<p>Geographical scope:</p> <p>AFI States with international airports exposed to frequent convective activity, terrain-induced shear, or microbursts, particularly where WS monitoring or warning services are absent or limited.</p> <p><b>Functional Scope:</b></p> <ul style="list-style-type: none"> <li>• Assessment of WS risks at key aerodromes.</li> <li>• Guidance on the development and implementation of WS detection and warning systems depending of the types of WS.</li> <li>• Establishment of standard procedures (SoPs) for WS observation, reporting, and dissemination.</li> <li>• Training for MET, ATC, and airline personnel on WS related SOPs, interpretation, and response.</li> <li>• Development of guidance material and regional coordination mechanisms.</li> </ul>		
<b>Metrics</b>	<ul style="list-style-type: none"> <li>• Number with risk assessments completed</li> <li>• Number of SOPs developed/adopted</li> <li>• Number of guidance materials developed/distributed</li> <li>• Number of trained staff on provision of WS information.</li> <li>• Final project report</li> </ul>		
<b>Strategy</b>	Senior meteorologists, with proven experiences from the Civil Aviation Authorities and the Industry, selected as per the AASPG Procedural Handbook, will implement the project. ICAO MET Regional Officers (ESAF and WACAF) will provide support as needed. The Project Team Coordinator (PTC) will coordinate activities, assign tasks, and prepare progress reports.		

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	Activities may be delivered online, hybrid, or in-person. The PTC will present performance reports to the AASPG IIM/SG.
<b>Related projects</b>	<p>This project is linked to the following:</p> <ul style="list-style-type: none"> <li>• <b>DISMET-AFI</b> Project on <i>Improving OPMET Delivery and MET Product Access for Safer and More Efficient Flight Operations in the AFI Region</i></li> <li>• <b>DIGIMET-AFI</b> on <i>Enhancing Digital Exchange of Aeronautical Meteorological Information in the AFI Region</i></li> </ul>
<b>Relationship with the regional plans</b>	<p>This project is related to the following plans:</p> <ul style="list-style-type: none"> <li>• Global Air Navigation Plan (GANP);</li> <li>• Global Aviation Safety Plan (GASP)</li> </ul>

## 2. Project Deliverables

Project deliverables					
Reference	Description	Responsible party	Delivery	Status of Implementation	Comments
<b>DEL01.</b>	<b>Setup of Project</b>				
1.1.	Selection of project team experts	Programme facilitator	<b>Q1, 2026</b>		Coordinate with States and Organizations for the nomination of subject matter experts possessing the required qualifications and experience to compose the project team.
1.2.	Project launching webinar	Programme facilitator	<b>Q1, 2026</b>		Organize an initial webinar with the project team members to launch the activities of the project.
<b>DEL02.</b>	<b>Collection of data on the WS hazard risks</b>				
2.1.	Collect data on WS hazard risks in selected States	Project Team	Q3, 2026		Collect data /information on WS hazard risk
2.2.	Conduct risks assessment and prepare reports on the WS hazard risks	Project Team	Q3, 2026		Develop a report on the WS related risk assessment in selected States with recommendations

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Project deliverables					
Reference	Description	Responsible party	Delivery	Status of Implementation	Comments
					concerning States where WS is a safety factor.
<b>DEL03.</b>	<b>Development of documents and tools</b>				
3.1.	Develop guidance and regulatory materials on WS detection, warning procedures, and regional coordination mechanisms.	Project Team	Q3, 2026		<ul style="list-style-type: none"> <li>Identify and develop Operational procedures developed for WS warning provision</li> <li>Develop a regional WS guidance and implementation tools</li> <li>Prepare a guidance on a regional coordination mechanism for providing the WS information</li> <li>Develop guidance and checklists for inspecting the implementation of WS related requirements.</li> </ul>
3.2.	Validation workshop of SOPs and guidance materials developed	Programme facilitator	Q2, 2027		Organize a workshop to validate the developed documents and tools
<b>DEL04.</b>	<b>Capacity building</b>				
4.1.	Train MET staff on WS related SOPs and the provision of WS information	Project Team	Q3, 2027		Provide a practical training/workshop on the provision of WS information
<b>DEL05.</b>	<b>Final Project Report</b>				
5.1.	Final Project Report with recommendations for further deployment of project outcomes	Programme facilitator	Q4, 2027		Develop a final project report with recommendations for further deployment

### 3. Resources

<b>Resources required</b>	<p>The required resources include:</p> <ul style="list-style-type: none"> <li>Selected experts from States and Organizations to conduct the project activities, based on following qualification criteria: <ul style="list-style-type: none"> <li>i. experience and good knowledge of ICAO standards and recommend practices, and procedures related to MET for MET experts;</li> <li>ii. at least five (5) years of operational experience in dealing with meteorological information dissemination to users, including the provision of wind shear warning information;</li> <li>iii. at least five (5) years' experience in State MET regulation.</li> </ul> </li> <li>Funds for conducting the documents and tools validation workshop.</li> </ul>
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### 4. Project Costing

Activities	Expenditures				
	Total	2025	2026	2027	Total
<b>Recapitulation</b>	<b>55,000</b>	<b>0</b>	<b>39,500</b>	<b>15,500</b>	<b>55,00</b>
<b>Deliverable 1 Set up Project</b>					
Activity #1.1 Selection of project team experts	-	0	0	0	0
Activity #1.2 Project launching webinar	-	0	0	0	0
<b>Deliverable 2 Collection of data on the WS hazard risks</b>					
Activity #2.1 Collect data on WS hazard risks in selected States	-	0	0	0	0
Activity #2.2 Conduct risks assessment and prepare reports on the WS hazard risks	-	0	0	0	0
<b>Deliverable 3 Development of documents and tools</b>					
Activity #3.1 Develop guidance and regulatory materials on WS detection, warning procedures, and regional coordination mechanisms.	20,000	0	20,000	0	20,500
Activity #3.2 Validation workshop of SOPs and guidance materials developed	19,500	0	19,500	0	19,500
<b>Deliverable 4 Capacity Building</b>					

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Activity #4.1 Train MET staff on the WS related SOPs and the provision of WS information	17,750	0	0	17,750	17,750
<b>Deliverable 4 Final Report</b>					
Develop a final project report with recommendations for further deployment	0	0	0	0	0
<b>Total</b>	<b>55,000</b>	<b>0</b>	<b>39,500</b>	<b>15,500</b>	<b>55,00</b>