

## Contribution of ASECNA for the WIGOS Implementation Activities

No	ACTIVITIES	DELIVERABLES	TIMELINE	RESPONSABILITY	ACTIONS OF ASECNA
<b>1. – Management of WIGOS Implementation in ASECNA area</b>					
1.1	Establish the sub-regional responsible body including institutions and technical groups such as ASECNA, AGRHYMET, ECOWAS	RA-I SR WIGOS Governance structure established and TOR defined WIGOS/WIS sub regional centres identified	2014	RA-IMG Sub-regional WIGOS Working Body Governance : High-level Governance composed of Ministers and PRs Working Body : 2 from each country, with combination of WIGOS and WIS	Participer à la définition des lignes directrices de la mise en œuvre du WIGOS pour la zone ASECNA
1.2	Nominate effective national WIGOS focal points to liaise with CBS, CIMO and other relevant TCs, WIGOS-PO on the implementation of WIGOS and EGOS-IP	National Focal points are nominated for WIGOS and for WIS	2014	Sub-regional WIGOS Working Body PRs Nominate national Focal points	Encourager les Etats membres de l'ASECNA à désigner des points focaux nationaux pour le WIGOS et le WIS. <b>Il est souhaitable que le point focal national du WIS soit le Chef Unité Exploitation des télécommunications.</b>  Désigner le point focal WIGOS et le point focal WIS de l'ASECNA.
1.3	Develop the sub-regional WIP taking into account the priorities of the sub-region	Sub-regional WIP is developed including : a) Tables of activities and decisions b) Actions indicated in the sub-regional plan c) Actions indicated in the EGOS-IP for the sub-region of ASECNA area	2014	Sub-regional and national focal points	Le Plan de mise en œuvre du WIS dans la zone ASECNA est élaboré

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1.3	Developed the National WIP taking into account national priorities	National WIP is developed including : a) Tables of activities and decisions b) Actions indicated in the national	2014-2015	National Focal points	Définir et faire savoir aux Equipes sous-régionales, la contribution de l'ASECNA dans la mise en œuvre du WIGOS/WIS dans ses Etats membres
1.4	Make an inventory of resources needed of the implementation of WIGOS in the sub region	Necessary resources from the Secretariat, the sub-region, partners, stakeholders and Members are identified	2014	Sub-regional Working Body PRs	Rendre disponibles les projets MET prévus dans le Plan de Services et Equipements (PSE) de l'ASECNA
1.5	Mobilize needed resources to support the WIGOS implementation in the sub-region of ASECNA area	Appropriate resources available from Secretariat, ASECNA members states partners, stakeholders and Members	2014-2015	Sub-regional WIGOS Working Body Coordination Group PRs Governance Body	S'informer des plans d'amélioration des services MET des Etats membres de l'ASECNA
1.6	Monitor and evaluate (M&E) WIGOS and WIS implementation activities in the sub-region of ASECNA area	Semi-annual M&E reports ; Problems are identified and sorted out timely	2014-2015	Sub-regional WIGOS Working Body WMO Secretariat Regional/ Sub-regional Office	Suivre les activités dans les Etats Membres de l'ASECNA
1.7	Develop National WIGOS and WIS Implementation Plans (N-WIPs)	N-WIPs developed	2014-2015	Members establish national WIGOS/WIS implementation team (including key stakeholders) to manage all the observing and information systems. This team will have to develop national plan and guide implementation	Suivre les activités dans les Etats Membres de l'ASECNA

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<b>2. – Collaboration with the WMO co-sponsored observing systems and international partner organizations and programmes</b>					
2.1	Identify and engage key partner organizations (water, marine, agriculture, environment and research institutes, private sector, disaster management agencies, etc.) such as AGRHYMET, ACMAD, ASECNA, ABN, OMVS, Regional Maritime University-Accra, etc. in implementation of WIGOS in ASECNA area and at the national levels	MoUs/ Agreements signed with sub-regional and national partners organizations	2014-2015	Sub-regional WIGOS Working Body PRs responsible for the MoU/ Agreements with National Partners	Appuyer les Etats pour évaluer les besoins en matière des systèmes d'observations
2.2	Establish working mechanisms with clear targets (such as data policies, MoUs, agreements) for collaboration in WIGOS implementation in the ASECNA area	Collaboration mechanisms established Number of exchanged observations increased through the partnership	2014-2015	Sub-regional WIGOS Working Body PRs responsible for the FPs to draft MoU/ Agreements for PR to discuss with partners	Les services météorologiques nationaux définiront un cadre de collaboration pour identifier les besoins et établir les mécanismes en matière d'échange des données avec les partenaires
2.3	Establish liaison with ASECNA re its services relevant to WIGOS/WIS	ASECNA component of WIGOS/WIS sub regional implementation plan	2014-2015	WMO need to meet with ASECNA in 2013 to define WIS applications and responsibilities. Sub-regional WIGOS Working Body to oversee liaison and contribution plan	Des contrats d'interface pourront être signés entre les différents partenaires

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<b>3. – Design, planning and optimized evolution of WIGOS and its sub-regional and national component observing components</b>					
3.1	<p>Optimize the observing systems in the ASECNA area taking into account :</p> <p>a) The technical guidance as represented in the EGOS-IP and other relevant observing systems IP ;</p> <p>b) Recommendations by XV-RA-I session 2010 ;</p> <p>c) Observational Requirements expressed in GFCS-IP ;</p> <p>d) Up-to-date user requirements for data including partners outside NMHSs, such as international river basin authorities ;</p> <p>e) Campaigns of observations organized in the sub-region</p>	Sub-regional integrated observing system design optimized taking into account partners requirements	2016-2017	Sub-regional WIGOS/WIS Working Body in collaboration with RA I TT-WIGOS/WIS	<p>L'OMM et l'ASECNA devraient appuyer les Etats membres de l'ASECNA pour améliorer le fonctionnement des RSBN.</p> <p>Les SMHN et l'ASECNA pourront informer et former les autres partenaires nationaux sur la représentation des données au format standard.</p>
3.2	Design a new integrated RBN in the ASECNA area	RBN in ASECNA area is designed and implemented	2014-2017	Sub-regional WIGOS Working Body ; Sub-regional representatives in TT-WIGOS	<p>Le SMHN se chargera de lister selon la catégorie et la nature d'observation, l'ensemble des stations nationales</p> <p>En coordination avec les partenaires, élaborer le nouveau RSBN</p>
3.3	Based on the principle of a new integrated Regional Basic Network, design and plan observation systems in the sub-region systems taking into account the priorities and needs	Regional plan of optimized observing systems proposed	2014-2015	Sub-regional and national coordinators, with support from the Project Office WIGOS	<p>L'ASECNA communiquera davantage sur les projets prévus de son Plan d'Equipements et des Services 2015-2017</p> <p>Les SMHN et les autres partenaires communiqueront sur la planification pluriannuelle des services</p>

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<b>3. – Design, planning and optimized evolution of WIGOS and its sub-regional and national component observing components</b>					
3.4	Contribute to the collective sub-regional effort to evolve and implement observing systems following the EGOS-IP and other observing system implementation plans	1) Report back to IPET-OSDE on the actions detailed in the EGOS-IP ; 2) EGOS-IP initiated at a National level	Annualy 2014-2015	Members	Les SMHN et L'ASECNA informeront régulièrement IPET-OSDE et EBOS-IP et EGOS-IP sur les plans de développement des services d'observation
3.5	Review the global user requirements in the WMO RRR DataBase to take into account Sub-Regional and national user requirements for observations	RRR database (OSCAR) update for Sub-Regional and national requirements	2014-2015	Members WMO Secretariat CBS	L'ASECNA a prévu d'implémenter la sauvegarde des données et des métadonnées ainsi que leur traçabilité dans le cadre WIGOS
3.6	Review regional communications practices and procedures and update GTS and WIS topology mappings	Updated Maps for Manual on GTS Vol.II and WIS communications map	2014	WIS FPs with Sub-regional representatives in TT-WIGOS (Secretariat database)	Etablir un tableau illustrant les liaisons de données avec leurs caractéristiques par pays. Le centre de rattachement étant le NC ou le DCPC.
<b>4. – Observing system Operation and Maintenance</b>					
4.1	Collect and compile examples of best practices and technical documentation from Members	Technical documents and best practices provided to WIGOS-PO	2014-2015	Sub-régional WIGOS Working Body in collaboration with RA I TT-WIGOS ; WMO Secretariat	Pour l'ensemble des systèmes d'observation et climatologique, rendre disponible : <ul style="list-style-type: none"> <li>la documentation du contrôle d'interface (ICD).</li> <li>les procédures d'acquisition et de traitement des données météorologiques</li> </ul>
4.2	Establish a ASECNA area repository of guidance and technical documentation relevant to observations	ASECNA area repository established and information accessible by Members	2015-2016	Sub-regional WIGOS Working Body ; WMO Secretariat and Regional/ Sub-regional Office	Permettre l'accès facile, au catalogue des données, à tous les Etats membres

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4.3	Establish a RIC in ASECNA area for calibration of observing systems	RIC established	2015-2016	PRs, WMO, CIMO	<p>Un centre Régional d'instrumentation et de calibration est en cours de mise en œuvre à Dakar. Il couvrira la zone ASECNA et les Etats non Membres la dans la mesure du possible.</p> <p>Mutualiser les ressources pour la maintenance des systèmes d'observation.</p>
4.4	Effectuer des achats groupés orientés vers une uniformisation technologique	Centrale d'achat créée	A partir de 2015-2016	PRs, WMO, ASECNA	En cas de besoin, l'ASECNA pourra constituer une centrale d'achat pour ses Etats membres et pour les autres Etats de la région I.
<b>5. – Quality Management</b>					
5.1	Examine current quality management practices being used in ASECNA area, including calibration of instruments for surface-based observations	Status report on the current quality management practices provided to WIGOS-PO	2014-2015	Sub-regional WIGOS Working Body ; WMO Secretariat ; Regional/ Sub-Regional Office	Le QMS est mis en œuvre dans tous les centres de l'ASECNA
5.2	Establish mechanisms and systems to improve, monitor and document the quality of observations from the WIGOS Sub-Regional observing components	Mechanisms for improved quality of observations at all levels established ; Sub-Regional WIGOS quality monitoring Centre established	2014-2015	Sub-regional WIGOS Working Body ; WMO Secretariat Regional/ Sub-regional Office ; Members ; Nominate a national observing system quality manager and TT-WIGOS form a sub-regional observations QM team	Début du processus d'automatisation des observations météorologiques

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5.3	Ensure, where possible, traceability of observations to the international standards (such as International System of Units (SI), focusing initially on surface pressure, temperature, precipitation and humidity	Increased number of observations traceable to international standards in ASECNA area	Revue annuelle (A partir de 2014-2015)	Members ; RICs ; WMO Secretariat Document the differences of the AWS and manual readings in operational practices	Disposer d'une base de données et de métadonnées de l'ensemble du réseau d'observation. Séparer dans la base, les données issues des stations manuelles de celles des stations automatiques
5.4	To consider establishment of a sub region RIC to achieve, through collaborative effort of Members the full functionality of the RIC	RIC operational	2016	Sub-Regional RIC ; With support from Members, WMO, CIMO	Avoir une accréditation du CRI
5.5	Achieve compliance of the RIC with WMO agreed capabilities and functions defined in the CIMO Guide, Annex 1A	Compliance of RIC achieved	2014-2016	Sub-regional RIC ; With support from Members, WMO, CIMO	Tenir compte des besoins du WAGOS dans les attributions des CRI et CRR.
5.6	Improve services of RIC to members and encourage Members to use services of RIC	Mechanisms for collaboration between RIC and Members is established ; Services of RIC are provided to Members	2015-2016	Sub-region RIC ; Members	Les centres gérés par l'ASECNA seront systématiquement pris en charge par le CRI de Dakar. Un cadre de collaboration pour être défini entre les services météorologiques nationaux et le CRI de Dakar.
5.7	Consider the establishment of an RMIC	RMIC operational	2014-2015	ASECNA ; through collaborative effort with Members	
5.8	Ensure that surface-based sites that are needed for calibration/ validation of satellite data are specified	List of surface-based sites for calibration/ validation of satellite data and products is available. Sub-TT on satellite data and products requirements and utilization	2014-2015	WIS FPs with Sub-regional representatives in TT-WIGOS	Les Etats membres de l'ASECNA mettront à la disposition de l'OMM la liste des stations et leurs programmes respectifs d'observation.
5.9	Implement feedback and action process for reaction to generalized WWW monitoring results	Agreed practice and update TORs of WIGOS and WIS FPs respond to issues identified in WWW and WIS monitoring	2015-2016	WIS FPs with Sub-regional representatives in TT-WIGOS	





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<b>6. – Standardization, System Interoperability and Data Compatibility</b>					
6.1	Implement the siting classification throughout the ASECNA area	Siting classification implemented	2015	Members	L'ASECNA appuiera ses Etats membres pour mettre à jour et classifier les sites d'observation.
6.2	Establish mechanisms for monitoring of compliance with WIGOS relevant standards at the sub-regional and national levels	Operational mechanisms for monitoring of compliance with WIGOS relevant standards are established ; Compliance with WIGOS relevant standards is increased at the national level	2015-2016  Annual review	WMO Secretariat provides Inventory of standards needed for implementation. Sub-regional WIGOS Working Body provide technical guidance for Members to implement standards and carry on annual review ; Members implement standards	L'ASECNA est disposée à contribuer aux mécanismes de contrôle de conformité des observations dans ses Etats membres.
6.3	Members to generate and provide metadata to WIR-OSCAR	Metadata collected and provided to WIR	2015	Sub-Regional WIGOS Working Body ; Members ; WMO Secretariat	Les métadonnées seront disponibles dans les NC et DCPC de la zone ASECNA. Les DCPC les rendront disponibles aux GISC de rattachement.
6.4	Achieve migration to TDCF in the ASECNA area	Migration completed by all Members	2014	Members ; ASECNA	Tous les bulletins météorologiques au format TAC produits par les 17 CMN des Etats membres de l'ASECNA sont convertis en BUFR depuis le 25 juin 2014.
<b>7. – The WIGOS operational information Resource (WIR)</b>					
7.1	Develop and maintain a sub-regional metadata database and a web portal to contribute to the WIR-OSCAR	Sub-regional WIR developed and hosted by WMO regional office by North, West and Central Africa operational	2014-2015	Sub-regional WIGOS Working Body ; WMO Secretariat, specifically WMO regional Office for North West and Central Africa is responsible for coordination of the metadata collection	L'ASECNA permettra l'accès aux métadonnées de sa zone de couverture à travers les centres appropriés du WIS.
7.2	Members to provide and share up-to-date communication and outreach information through the WIR	Up-to-date outreach information available	2014-2015	Members ; WMO Secretariat	Les informations actualisées concernant les réseaux d'observation et les métadonnées seront

					disponibles
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7.3	Provide information required by WIR	Required information available in WIR and maintained		Members	
<b>8. – Data discovery, delivery and archival</b>					
8.1	Members to designate relevant contributing centres as WIS DCPCs or NCs ; Ensure that members establish WIS NCs	Each member has at least one designated principal GISC and a backup GISC ; Relevant members designated as DCPCs ; All members' centres compatible with WIS	2014-2015	Member' WIS FP WMO Secretariat	L'ASECNA appuiera les Etats membres afin que : <ul style="list-style-type: none"> <li>• les 17 CMN se prononcent auprès de l'OMM pour devenir des NC.</li> <li>• les CRT de Dakar, Brazzaville et Niamey deviennent des DCPC.</li> </ul>
8.2	Data transmission to be modernized using new telecommunication systems (Internet) and mobile phone telephony, if available		2015		Les produits améliorés pourront être échangés sur le SMT amélioré ou sur le WIS.
8.3	Members to share data and discovery metadata via WIS, including from institutions other than NMHSs	Data and discovery metadata including from institutions other than NMHSs, shared through WIS	2015	Member' WIS FP WMO Secretariat	Les futurs DCPC Dakar, Brazzaville et Niamey enverront les métadonnées principalement au GISC de Toulouse et le GISC de Casablanca servira de secours.
8.4	WIS FP to ensure WIS Discovery MD is created and published	Discovery metadata sent to principal GISC	2015-2016	WIS and WIGOS FPs	
<b>9. – Capacity development</b>					
9.1	Identify the needs for new regional Centres (RICs, RRCs, RMICs, RTCs, Sub-regional WIGOS centre)	A least one Centre in the ASECNA' area is established for each type of a centre	2014-2015	Sub-regional WIGOS Working Body ; PRs ; With support of WMO Secretariat	<ul style="list-style-type: none"> <li>• L'ASECNA prévoit de mettre en œuvre un CRI à Dakar.</li> <li>• Un pays de l'Afrique centrale pourra abriter un CRIM.</li> </ul>
9.2	Define and revise TORs of these centres for strengthening the sub-regional capacity on WIGOS-WIS	Centres as defined above are operational and TORs agreed	2014-2016	Sub-regional WIGOS Working Body ; PRs with support of WMO	L'ASECNA est disposée à recevoir les contributions de l'OMM dans la définition des

				Secretariat	TDR du CRI de Dakar
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9.3	Provide assistance to members to establish/ enhance institutional madates and policies that enable effective implementation, operation and management of observingsystems by Members	Institutional mandates and polices for effective implementation, operation and management of observing systems by Members are established/ enhanced	2015-2016	WMO Secretariat ; Sub-régional WIGOS Working Body ; PRs	L'ASECNA est disposée à mettre en place des mécanismes de collaboration des CRI du CR I et des dispositions avec les partenaires.  L'ASECNA produira un rapport d'état des lieux du CRI à sa charge.
9.4	Provide assistance to Members to fill the existing gaps in the design, operation and maintenance of WIGOS component observing systems, including both the infrastructure and human capacities development	Gaps in the WIGOS observing systems of Member countries are identified ; And filled	2014-2015	Sub-regional WIGOS Working Body ; WMO Secretariat ; Members, in collaboration with regional partners and TCs	L'ASECNA sera disposée à mettre à contribution son expertise pour proposer des solutions concernant les dysfonctionnements éventuels constatés  Le projet de renforcement des capacités du Système de Gestion de Base Climatologique de L'ASECNA est en cours de mise en œuvre. Toutes les données climatologiques provenant des Etats membres pourront y être reçues, contrôlées, traitées et stockées.
<b>10. – Communication and outreach</b>					
10.1	Utilise communication strategies developed by ICG-WIGOS and material provied by WIGOS-PO to raise awareness and commitment to WOGOS and WIS in the ASECNA' area	Awareness and commitment to WIGOS and WIS in the ASECNA' area	2014-2015	Sub-regional WIGOS Working Body ; WMO Secretariat	A la demande de l'OMM ou de ses Etats membres, l'ASECNA est disposée à contribuer à la sensibilisation et à la vulgarisation du WIGOS et du WIS au niveau régional

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10.2	Develop communication and outreach material relevant to ASECNA' area with a special focus on policy-makers	Up-to-date communication and outreach material of the sub-region is available through appropriate means (WIR, RANET, forums, etc.)	2015 Avant la session du CR I	Sub-regional WIGOS Working Body ; WMO Secretariat ; Regional/ Sub-regional Offices	Sur initiative des coordonnateurs nationaux du WIGOS, l'ASECNA est disposée à apporter sa contribution dans la communication et la sensibilisation au niveau national.
10.3	Communicate WIGOS and WIS benefits using all possibilities, such as brochures, COPs, AMCOMET	Workshops and events organized at sub-regional and national levels for promoting WIGOS and WIS	2014	Sub-regional WIGOS Working Body ; Members with support of WMO Secretariat	L'ASECNA soumettra à l' OMM pour validation, ses notes sur la sensibilisation relativement au WIS/WIGOS
10.4	Encourage partners to communicate benefits achieved through the WIGOS/WIS implementation	Benefits provided to WIGOS-PO and WIS branch	2015	Members	L'ASECNA se chargera de sensibiliser au maximum en son sein