**Table WIGOS Pre-operational Phase Activities**

Depending on the implementation scale, planned activities are specified as follows: **G** = Global activity, **R** = Regional activity and **N** = National activity

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| **No.** | **Activity** | **Deliverables** | **Target Date for Completion** | **Responsibility** | **Estimated Costs (2012-2015) K CHF** | **Potential Risks** |
| ***RQ*** | ***RB*** | **Shortfall** | **Dependencies** |
| 1. **Activities listed in the WIP (Version 3.0, Table 2) not completed during the Implementation Phase, and proposed to be included in the Pre-Operational Phase**
 |
| 1.1.1G | Develop WIGOS Functional Architecture | WIGOS FA | 2018 | ICG-WIGOS (or successor) |  |  |  |  |
| 1.3.1N | Develop National WIGOS Implementation Plans (N-WIPs) | N-WIPs developed | 2019 | Members |  |  |  |  |
| 3.1.4G | Develop a concept of Regional Basic Observing Network (RBON) to be applied by RAs | Description of RBON concept applied by Regions | 2016 onwards | ICG-WIGOS,RAs |  |  |  |  |
| 3.2.3R | Migrate from the existing RBSN/RBCN into an integrated RBON | RBONs adopted by RAs | 2017 onwards | RAs, Members |  |  |  |  |
| 4.1.1 G | Develop guidance, mechanisms and procedures for improved integration of observational data and products  | 1) Guidance included in the WIGOS Guide2) Work is underway for some specific product integration activities | 1) 20192) 2015 onwards | ICG-WIGOS |  |  |  |  |
| 6.1.1G | 1) Develop guidance for WIGOS standards 2) Document the implemented standard and recommended practices and procedures on instruments, methods of observation, data products, etc. | 1) Guidance to WIGOS standardization developed2) Implemented standard and recommended practices and procedures are documented and available at the Portal as appropriate3) Newly developed standard and recommended practices documented in the WIGOS regulatory material | 1) 20152) 2015onwards3) 2015 onwards | Relevant TCsTT-WRMWIGOS PO |  |  |  |  |
| 7.3.1 N | Provide information required by WIR | Required information available in WIR and maintained | 2015 onwards | Members |  |  |  |  |
| 1. New activities (by WIGOS Key Activity Area)
 |
| 1. **WIGOS Regulatory Material, supplemented with necessary guidance material, focusing on providing Members with those technical details that are required for the implementation (KAA 1, 2, 5, 6, 9)**
 |
| 1.1.G | Develop Guide to WIGOS, including guidelines on: | Guide to WIGOS | Cg-18 |  |  |  |  |  |
| 1. WIGOS Metadata
 |  |  |  |  |  |  |  |
| 1. Station Identifiers
 |  |  |  |  |  |  |  |
| 1. OSCAR/Surface
 |  |  |  |  |  |  |  |
| 1. WIGOS Data Quality Monitoring
 |  |  |  |  |  |  |  |
|  | 1. Lifecycle management of data (acquisition, data policy, sharing, quality management, dissemination, archiving, reprocessing, etc.)
 |  |  |  |  |  |  |  |
|  | 1. Incorporation of observations (WMO and partners) across all WIGOS component observing systems (access, sharing and integration of WIGOS data)
 |  | 2016 onwards |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 1.2.G | Develop Guideline on National WIGOS Development and Partnerships |  | 2016 |  |  |  |  |  |
| 1.3.G | Develop standards and recommendations supported by best practices and procedures for surface-based remote sensing (mainly weather radars and wind profilers) |  | 2017 |  |  |  |  |  |
| 1.4.G | Develop standards and recommendations supported by best practices and procedures for improving observational data and products quality |  | 2017 |  |  |  |  |  |
| 1.5.G | Update the Manual on WIGOS | New editions of Manual on WIGOS | EC-68, EC-69, EC-70, Cg-18 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 1. **WIGOS Information Resource (WIR), including the OSCAR and SORT databases (KAA 7, 8)**
 |
| 2.1.G |  | Web-based portal preliminary operation | 2016 |  |  |  |  |  |
| 2.2.G |  | OSCAR/Capabilities migration | 2016 |  |  |  |  |  |
| 2.3.G |  | OSCAR/Space migration | 2017 |  |  |  |  |  |
| 2.4.G |  | SORT initial capability | 2017 |  |  |  |  |  |
| 2.5.G |  | OSCAR/Surface fully populated | 2018 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 1. **WIGOS Data Quality Monitoring System (WDQMS) (KAA 5, 9)**
 |
| 3.1.G |  | Initial WIGOS (GOS surface-based components) monitoring capability at ECMWF, NCEP and/or other NWP centres | Mid 2016 |  |  |  |  |  |
| 3.2.G |  | Full WIGOS (GOS surface-based components) operational monitoring and reporting functionality | 2018 |  |  |  |  |  |
| 3.3.G |  | Monitoring Workshop(s) for GAW, GCOS, GCW and hydrology components of WIGOS | 2016 |  |  |  |  |  |
| 3.4.G |  | Initial monitoring capability for all WIGOS components | Mid 2017 |  |  |  |  |  |
| 3.5.G |  | Mechanisms for routine reporting of monitoring results to EC, Regional Associations and Members | Mid 2016 |  |  |  |  |  |
| 3.6.G |  | Mechanisms and regional structures in place to handle incident management actions and support Members in improving the data availability and quality | 2017 |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 1. **WIGOS Regional Centres (KAA 1, 3, 4, 5, 8, 9)**
 |
| 4.1.G |  | Initial establishment of WIGOS Regional Centres in pre-operational mode in some regions/sub-regions | Mid 2016 |  |  |  |  |  |
| 4.2.G |  | Establishment of WIGOS Regional Centres covering all WMO Regions | 2018 |  |  |  |  |  |
| 4.3.G |  | Operational phase of initial WIGOS Regional Centres, after successful completion of two-year pre-operational phase | Mid 2018 onwards |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
| 1. **Regional and national coordination and governance mechanisms (KAA 1, 2, 6, 9)**
 |
| 5.1.G | Develop Guidance on governance mechanisms and partnership arrangements to support the incorporation of observations (WMO and partners) across all WIGOS component observing systems (see also 1.1.G – 6)) | Develop Guidance on governance mechanisms and partnership arrangements to support the incorporation of observations (WMO and partners) across all WIGOS component observing systems (see also 1.1.G – 6)) | 2017 |  |  |  |  |  |
| 5.2.G | Develop tools and guidance for Members to plan, deliver, expand and evolve their national WIGOS implementation | Tools and guidance for Members to plan, deliver, expand and evolve their national WIGOS implementation | 2018 |  |  |  |  |  |
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