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| **WORLD METEOROLOGICAL ORGANIZATION**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**STAKEHOLDERS WORKSHOP TO IMPLEMENT A PILOT PROJECT ON IMPACT-BASED FORECASTING AND RISK-BASED WARNINGS**MAPUTO, MOZAMBIQUE19-23 October 2015 |  | WDS/PWS/SHW-IBFRBW-PP/Doc.1ORIGINAL: ENGLISH |

**PROVISIONAL PROGRAMME**

**Expected Outcome**

Design of a Pilot Project on impact-based forecasting for Mozambique in collaboration with the World Bank/GFDRR.

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|  | **DAY 1 (WORKING HOURS: 0900-1700)** |  |
| **TIME(S):** | **TITLE(S) / SUBJECT(S):** | **PRESENTER(S):** | **TIME(S):** |
| **WELCOME AND INTRODUCTION** |
|  | * Opening (including reason for workshop)
* Introduction of participants
* Working arrangements
 | **INAM & Haleh Kootval (WMO)**  | **0900-1000** |
| **STIMULATING THE NEED FOR ACTION** |
|  |  |  | **1000-1200** |
|  | Presentation on challenges and short-comings of current warning and response systems:* Meteorological and hydrological hazards and their impacts;
* Existing forecasting and warning services;
* Disaster reduction activities
 | **INAM & INGC** |  |
|  | **Coffee Break and Group Photo** |
|  | Background information including briefing on the 2014 stakeholder workshop, and the preparation of a Partner Agreement Document and review of current implementation plan* Status of the Document
* Description of work that has taken place since the 2014 workshop
* Briefing by the WB/GFDRR on the status of the modernization project and synergies with the impact-based forecasting project
* Any other ongoing related project, e.g., JICA flood project, FFG project by SA, EUPORIAS project and other CCl related activities
 | **INAM/DNA/INGC****Eleanore Hunt (MO)****Frederiek Sperna Weiland (Deltares)****Rick Murnane (GFDRR)****WB/GFDRR****Eugene Poolman (SAWS)****FFG****JICA****Jean-Pierre Céron (MF)** |  |
|  | **Lunch** |  |
| **RESPONDING TO THE CHALLENGES AND NEED FOR CHANGE** |
|  |  |  | **1300-1700** |
|  | Background information including briefing on the 2014 stakeholder workshop, and the preparation of a Partner Agreement Document (continued) |  |  |
|  | **Coffee Break** |
|  | Presentation:* Multi-hazard, impact based forecasting and warning services in Mozambique (focus on benefits to users)
 | **Eleanore Hunt (MO)**  |  |

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| **DAY 2 (WORKING HOURS: 0900-1700)** |
| **Impact-based forecasting: introduction to mapping and modelling**  |
|  |  |  | **0900-1200** |
|  | Re-cap on Day 1 and outlook for Day 2 activities | **Eleanore Hunt (MO)**  |  |
|  | Introduction to hazard matrices  | **Eleanore Hunt (MO)**  |  |
|  | Develop a hazard matrix for each stakeholder group | **All** |  |
|  | Summary of hazard matrices | **Eleanore Hunt (MO)**  |  |
| **Coffee Break** |
|  | Presentations:* Introduction to technologies and modeling for providing objective risk-impact assessments
 | **Rick Murnane (GFDRR),** **Frederiek Sperna Weiland (Deltares**)**Jean-Pierre Céron (MF)** |  |
|  | **Lunch** |
|  |  |  | **1300-1700** |
|  | Presentations* Existing risk mapping information
* Existing vulnerability and Exposure information for real time or climate-based impact mapping
* Information on locations and activities prone to hazards not already captured in existing databases, including historical reports, which could be used for risk mapping
 | **INAM, National GIS expert, and stakeholders**  |  |
|  | **Coffee Break** |
| **Impact-based forecasting: DEVELOPING IMPACT AND ADVICE MATRICES** |
|  | Introduction to impact and advice matrices  | **Ele Hunt (MO)**  |  |
|  | Develop an impact matrix for a range of hazards and stakeholder groups. Review and discuss | **All participants** |  |
|  | Summary of impact and advice matrices | **Eleanore Hunt (MO)**  |  |
| **DAY 3 (WORKING HOURS: 0900-1700)** |
| **Impact-based forecasting: DEVELOPING IMPACT AND ADVICE MATRICES**  |
|  |  |  | **0900-1200** |
|  | Re-cap on Day 2 and outlook for Day 3 activities | **Eleanore Hunt (MO) and Stakeholders**  |  |
|  | Develop a mitigation advice matrix for each hazard and stakeholder group. Review and discuss | **All participants** |  |
|  | **Coffee Break** |
|  | Stakeholders exercises using historical events or simulated scenarios to test each impact matrix and the resulting warning color  | **All participants**  |  |
|  | **Lunch** |
| **TESTING AND COMMUNICATION**  |
|  |  |  | **1300-1700** |
|  | Create and agree on SOPs for severe weather, climate and related hydrometeorological events; and test  | **All participants led by Haleh Kootval (WMO)** |  |
|  | **Coffee Break** |
|  | Create and agree on SOPs for severe weather, climate and related hydrometeorological events; and test (continued) | **All participants led by Haleh Kootval (WMO)** |  |

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| **DAY 4 (WORKING HOURS: 0900-1700)** |
| **IMPLEMENTATION** |
|  | Topics for discussion and agreement:* Formalizing an operational partnership
* Training plan
* Creating a communication plan including community engagement
* Operational implementation

Identification of resource gaps | **INAM, Haleh Kootval WMO, GFDRR/WB, Eleanore Hunt (MO), Jean-Pierre Céron (MF) and Stakeholders** |  |
|  | **Coffee Break** |
|  | Topics for discussion and agreement (continued) |  |  |
| **Lunch** |
|  | Topics for discussion and agreement (continued) |  | **1300-1700** |
|  |  |  |  |
| **DAY 5 (WORKING HOURS: 0900-1700)** |
| **TECHNICAL ISSUES AND DISCUSSIONS for next steps of the project** |
|  | Discussions on the role of GIS to enable users to better understand and visualize the relationship between multiple hazards, vulnerabilities and impacts |  |  |
|  | Discussion on the development of the operational implementation of the delivery of impact-based forecast and warning services. A proposed GIS multi-hazard system would be tested, evaluated and revised as feasible. Once this component is complete, the new system could replace, or complement the subjective process |  |  |
|  | Explore further refinement of the relationship between specific hazards and impacts by using more advanced vulnerability data |  |  |
|  | The next steps:* Timeline
* Milestones
* Deliverables
 | **WMO /INAM /WB** |  |
|  | Closure of the workshop |  |  |

ABBREVIATIONS

INAM -.National Institute of Meteorology, Mozambique

INGC.-.Disaster Management Agency

GFDRR – Global Facility for Disaster Reduction and Recovery

MF – Météo-France

MO – Met Office, UK

SAWS – South African Weather Service

WB – World Bank

WMO – World Meteorological Organization \_\_\_\_\_\_\_\_\_\_