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| **WORLD METEOROLOGICAL ORGANIZATION** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **STAKEHOLDERS WORKSHOP TO IMPLEMENT  A PILOT PROJECT ON IMPACT-BASED FORECASTING AND RISK-BASED WARNINGS**  MAPUTO, MOZAMBIQUE  19-23 October 2015 |  | WDS/PWS/SHW-IBFRBW-PP/Doc.1  ORIGINAL: 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** |
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| **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 \_\_\_\_\_\_\_\_\_\_