WMO Public Weather Services

Regional Workshop on
Impact-Based Forecasts in WMO RA II

Korea Meteorological Administration
Seoul, Republic of Korea
7-9 November, 2017

WEATHER CLIMATE WATER
TEMPS CLIMAT EAU

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World Meteorological Organization
Organisation météorologique mondiale

Public Weather Service

➢Need

To protect lives and livelihoods; beneficial to the nation's economy and welfare of citizens; improves situational awareness, decision-making and planning; strengthens the **authoritative voice** of NMHSs; supports **attribution** to NMHSs as service providers.

➢1994, WMO creates the Public Weather Service Delivery Div. (Weather and Disaster Risk Reduction Services Dept.)

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Public Weather Service

- Develop capacity for **Impact Based forecasts and Warning services**;
- Establish and improve multiple channels of communication of Weather forecasts and warnings;
- Provide training on working with the Disaster Management community and stakeholders;
- Encourage the international exchange of forecasts and warnings.
- Develop capacity to provide warnings in the **Common Alerting Protocol (CAP)**

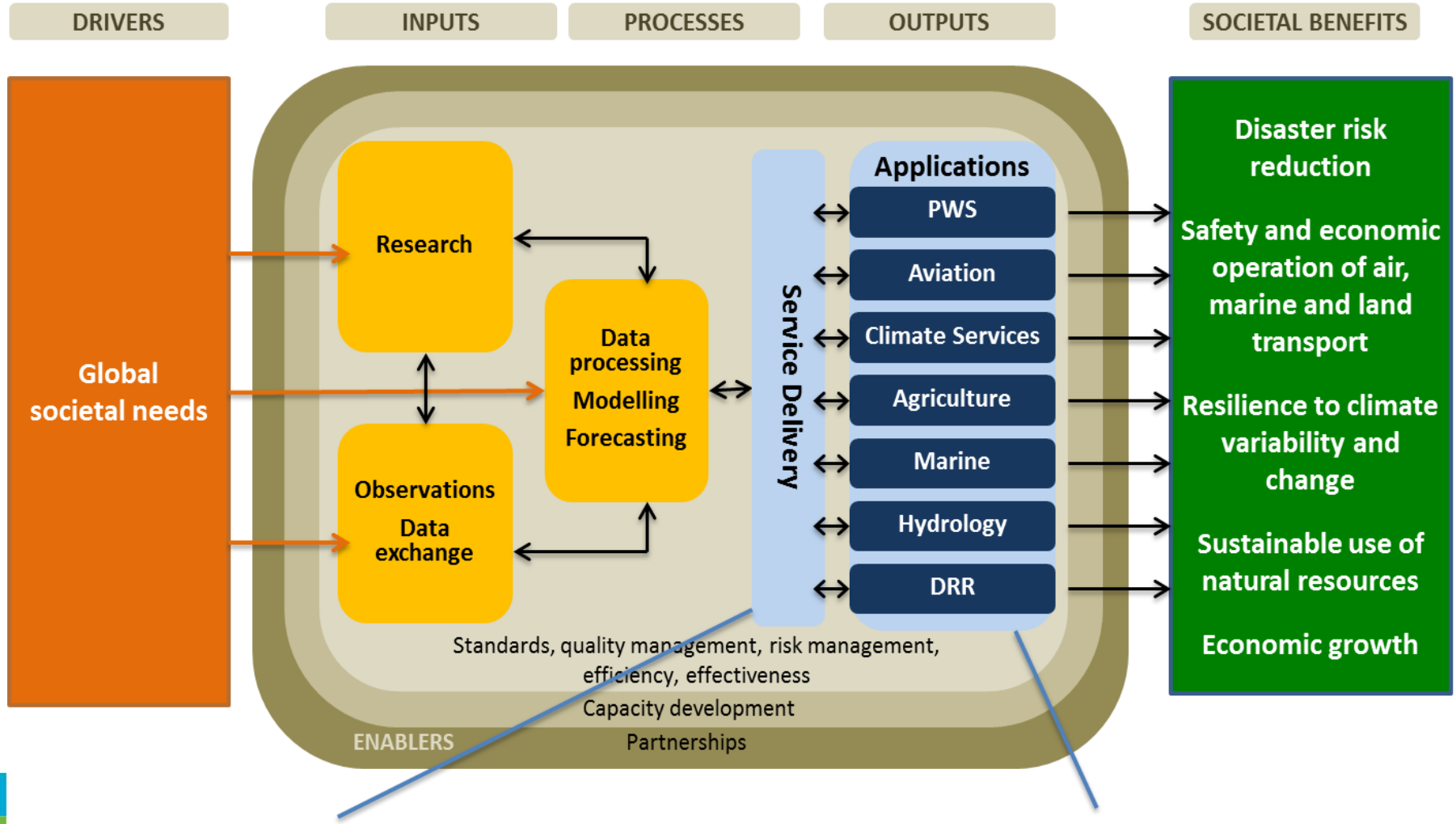
➢ WMO PWS/SDD w/c **Tropical Cyclone Programme** (TCP) and the **Severe Weather Forecasting and Demonstration Project** (SWFDP) of WMO.

Public Weather Service

➢ Users

- General Public
- Stakeholders in major thematic areas for application
  - National Offices with a warning function, governmental entities and Crisis Committees, Civil protection, EMA, etc.
  - Marine, coastal, aviation, agriculture, transport, energy, hydrology, water resource management, health, urban & megacities authorities, insurance, traditional and digital media, tourism, infrastructure planners, etc.

Positioning Service delivery within the Operational Structure of WMO



Develop a separate service delivery area which can be utilised better by all the application areas.

Establish flexible application areas which can grow or shrink in number and size.

Application and services are hub for the linkages between the core business/function based business and the global societal benefits and relevant goals of UN Agendas

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Public Weather Service - Service Delivery

- **Extremely relevant demands** in a

New evolving digital **Information landscape** in a world of **Digital natives**

New paradigm

- **Evolution** in Service Delivery (SD) Process both in

  - **Culture**

  - **Workforce Skills & Capabilities**

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Public Weather Service Delivery

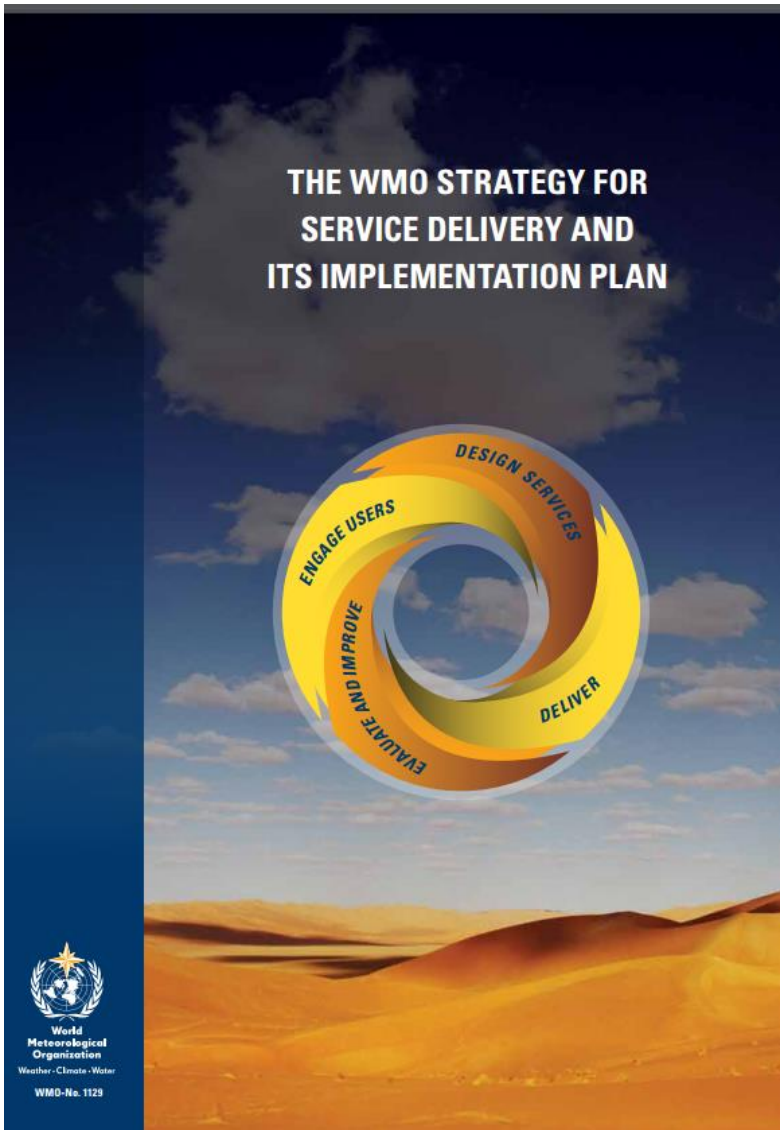
➢ While best practices for SD exist around the globe, generally speaking the current focus has been on **producing a product** rather than a **service culture** based on **user needs and demands**.

NMHSs need assistance from WMO to change the SD paradigm:

✓ Thorough comprehensive **WMO Strategy for Service Delivery** has been developed;

✓ **Implementation Plan - Service Delivery Progress Model (SDPM)**

The WMO Strategy for Service Delivery



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Public Weather Service Delivery

➢Goal

WMO –NMHSs working together to develop a service delivery foundation, adaptable **to fit different needs** in the provision of **user-focused** weather, climate, water and environmental services.

Product oriented → **User oriented**

Fit-for-purpose products, tailored to meet user needs

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Public Weather Service Delivery

The four stages of a continuous, cyclic process for developing and delivering services are:

Fit-for-purpose products, tailored to meet user needs

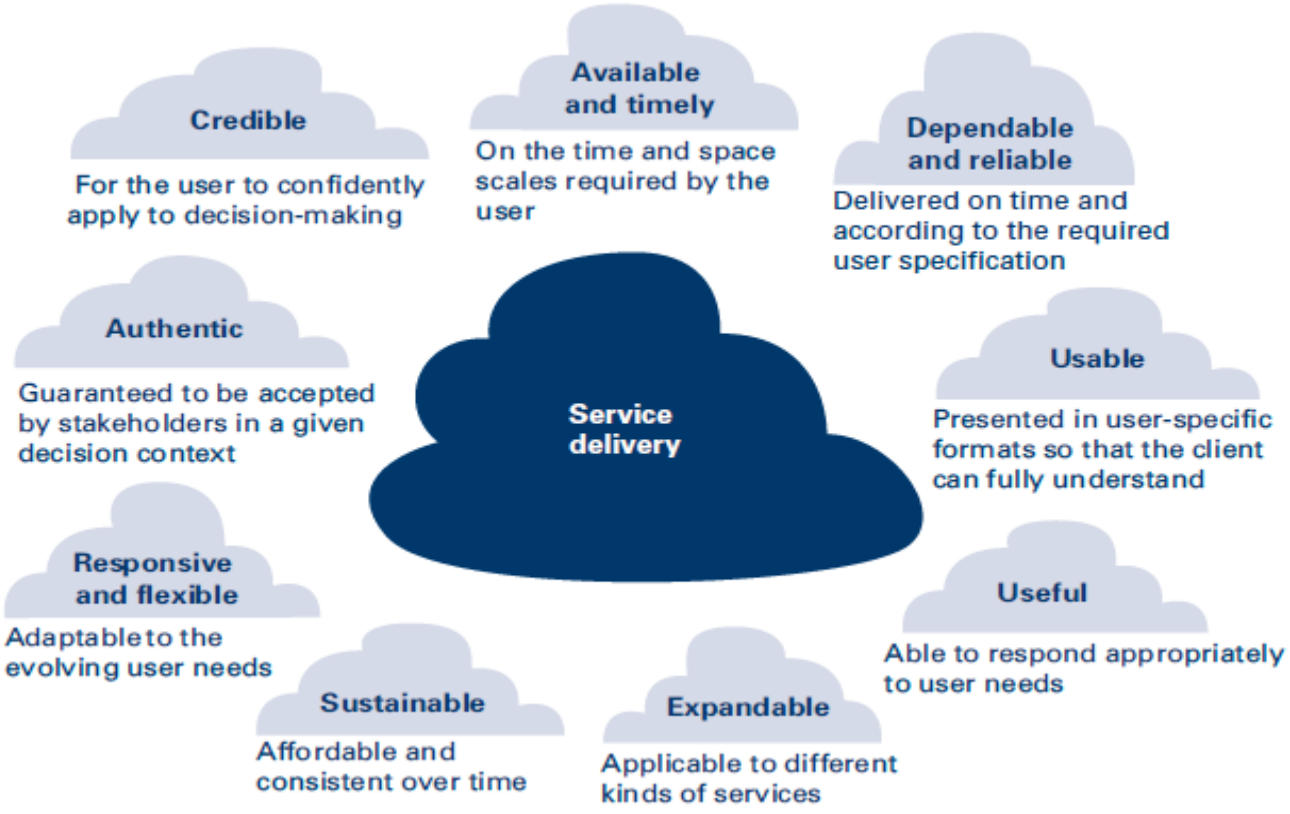
Public Weather Service Delivery

The six elements necessary for moving towards a more service-oriented culture are:

1. Evaluate user needs and decisions
2. Link service development and delivery to user needs
3. Evaluate and monitor service performance and outcomes
4. Sustain improved service delivery
5. Develop skills needed to sustain service delivery
6. Share best practices and knowledge

Fit-for-purpose products, tailored to meet user needs

Public Weather Service Delivery attributes



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WMO Guidelines on
Multi-hazard Impact-based
Forecast and Warning Services
World
Meteorological
Organization
Weather · Climate · Water
WMO-No. 1150
WMO OMM

WMO Guidelines on Multi-hazard Impact-based Forecast and Warning Services

Available online: http://library.wmo.int/pmb_ged/wmo_1150_en.pdf
World Meteorological Organization
Published by: WMO ; 2015

- Improves the understanding of the **potential impacts** of severe hydrometeorological events, certainly a challenge to NMHSs and their partner agencies, particularly disaster reduction and civil protection agencies (DRCPAs).

- Establishes a road map that identifies the various milestones from weather forecasts and warnings **to multi-hazard impact-based forecast and warning services**.

- Describes the **ultimate step of forecasting actual impacts**, although it is recognized that this is a highly sophisticated exercise, requiring strong collaboration with partner agencies and significant research into **exposure and vulnerability**.

- For many WMO Members this step **will not be the responsibility of the NMHS but rather that of the relevant DRCPA and other partners**.

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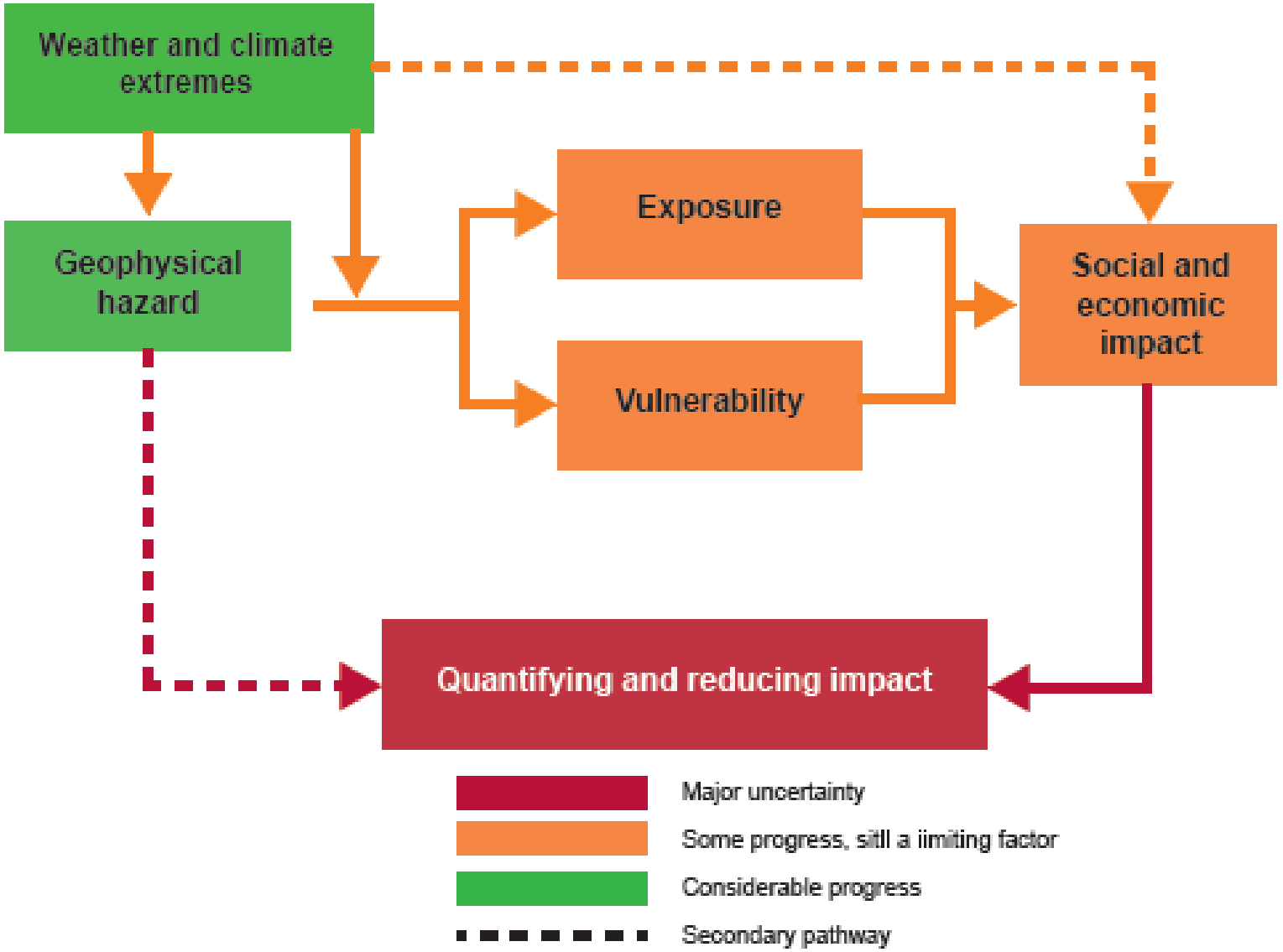

Figure 1. Relationship among the key elements of an impact forecast system

Workshop on IBF in RA II

Goals to accomplish

- Encourage Best Practices
- Promote Study Cases
- Identify potential priorities for further IBF Workshops
- Produce feedback material for WMO CBS-OPAG PWSD and WDS/SDD.

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Thank you

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