AWCI Session 2021

Platform on Water Resilience and Disasters

Mahaweli Authority of Sri Lanka





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Introduction of the organization

- ✓ largest multi-disciplinary progamme ever implemented in Sri Lanka.(Physical and Human Resources) (Initiated in 1961)
- ✓ Main purpose of the programme is water security of the country (Level of Water Security of a country is a Key Indicator of its Development Potential Establishment of Mahaweli Authority of Sri Lanka Act No.23of 1979.
- ✓ Mahaweli Authority of Sri Lanka is largest multi-disciplinary government organization. Water, Electricity, Agricultural, Land and Environment are the Major stream in the Organization.
- \checkmark Cover 1/3 of the Area of Sri Lanka

✓ Basic Salient Data of Mahaweli Development

- ✓ Static Water Storages
- ✓ Large Reservoirs
- ✓ Medium and Small Tanks
- ✓ Hydro Electric Power
- ✓ Canal Structures
- ✓ Agricultural Development

- > 3661 MCM
 - > 15 ((Earth,Rockfill,Concrete Dam)
- >500
 - >761 MW
 - >12,000 km (Main+Branch+D+Field)
- >150,000 Ha



Mandates and duties

✓ The generation of hydroelectric power

✓ Controlling floods

✓ Making irrigation facilities for dry zone cultivation and Drinking water

✓ Mahaweli Water Management

✓ Settlement for landless people (Developing physical and social infrastructure required for human habitation by using the waters of the Mahaweli River)

✓ Increase local agricultural production

✓ Create employment opportunities

Adaptation of Online Synthesis System (OSS) for Mahaweli Basin

- Flood early warning and risk mapping for Mahaweli Basin/ Mahaweli areas
- ✓ Climate change adaptation planning for Mahaweli Areas
- ✓ Economic damage assessment for Mahaweli Areas
- ✓ Contingency planning
- Capacity building for facilitators/stakeholders



- MASL has big amount of raw data Relevant to above
- Still MASL did not analysis it
- Usually do old methods or do prediction based on conventional methods



Organizational strategy/plan for implementing the OSS

✓ Awareness the heads of the Technical divisions and other relevant key persons of the relevant divisions of MASL about the implementing the OSS

 ✓ Establishment of Key Team under the direct supervision of Deputy Director General (TS) (infrastructures available)

Technical Services Division

- ✓ Engineering Design and Planning
- ✓ Major Dams and reservoir Operation
- ✓ Water Management
- ✓ Downstream Development
- ✓ River Basin Development
- Planning and Monitoring Unit
- Development Division

Assign the works accordingly (need to discuss with the heads of MASL)

Training / participants persons/ Capacity Building Directors, Engineers, Agronomies, Statisticians, Planners,

Thank You

