



THE JOINT RESEARCH ON HYDROLOGICAL IMPACTS OF THE LANCANG HYDROPOWER CASCADE ON DOWNSTREAM FLOOD AND DROUGHTS

- BACKGROUND -

THE 8TH MRC REGIONAL STAKEHOLDER FORUM

PREPARATION OF BASIN DEVELOPMENT STRATEGY 2021-2030 AND MRC STRATEGIC PLAN 2021-2025

05 NOVEMBER 2019, MRC SECRETARIAT, VIENTIANE, LAO PDR

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Contents of Presentation



BACKGROUND



KEY FINDINGS



RECOMMENDATIONS

Objectives and scope of study

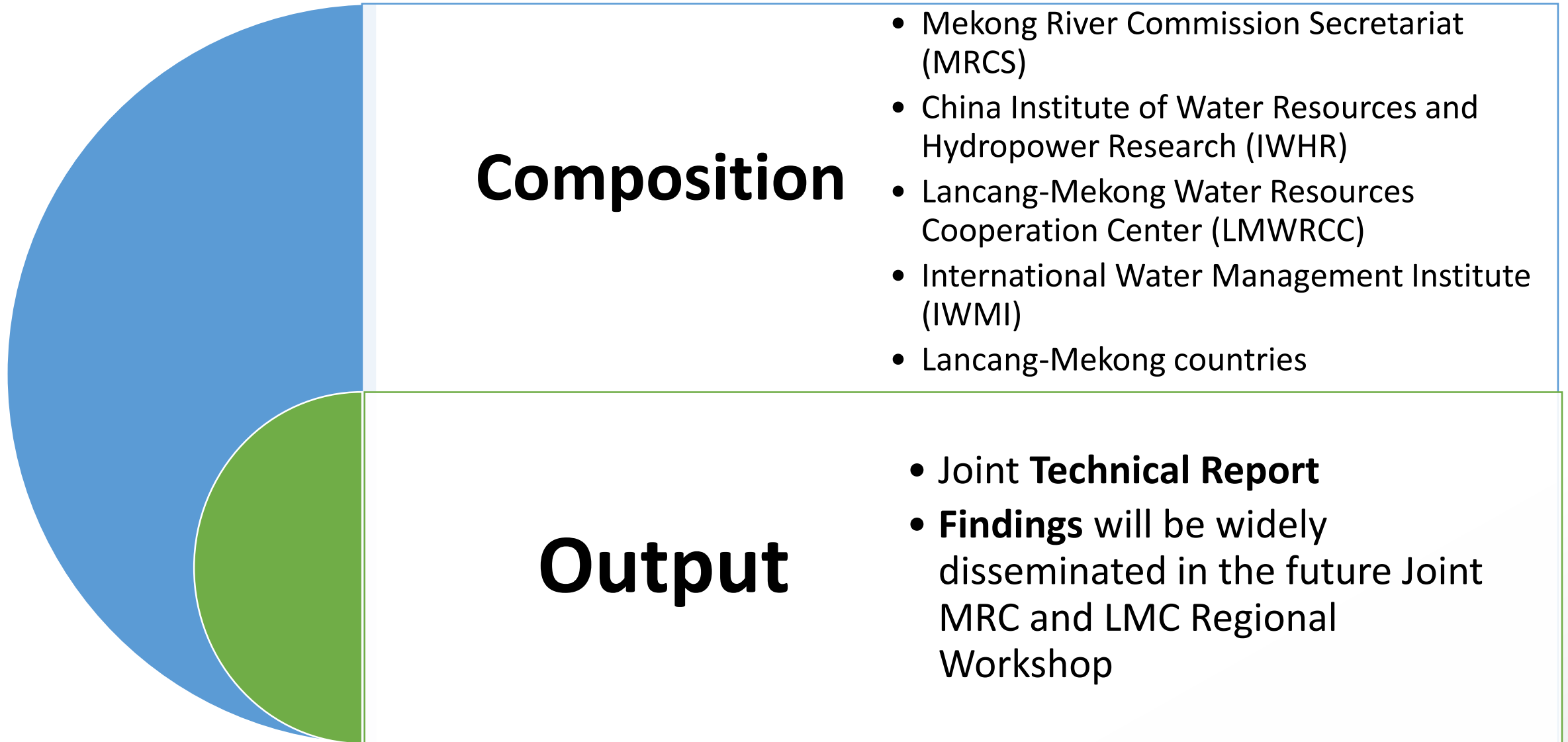
Objectives

- To assess the **role of the Lancang cascade** reservoirs on downstream floods and droughts
- To explore the **potential for win-win upstream-downstream** collaborations

Scope of the Joint Research

- **Spatial scope:** mainstream section of the Lancang-Mekong River from *Jinghong in China to Kratie in Cambodia*.
- **Temporal scope:** hydrological assessment considers several **dry seasons (October to May)** of specific years characterized by extreme events: (1) Comparative analysis of the **drought of 2009-2010** and **2012-2013**, (2) Analysis of the extreme **drought of 2015-2016**, (3) Analysis of the respective **hydrological impacts of climate variability and hydropower operation over the dry season of 2009-2012-2013, 2015-2016** including the **flash flood of December 2013**.

Team composition and output



Background – preparatory work

The Joint Research was proposed by China at the 19th Dialogue Meeting in May 2015.

China sent the draft proposal to the MRCS and International Water Management Institute (IWMI) in July 2015.

The MRCS revised the proposal and presented it at the 43rd MRC JC Meeting and the 29th JC Task Force Meeting in March 2016.

The draft proposal was revised and tabled for discussions at the 44th MRC JC Meeting and presented at the 20th Dialogue Meeting in July 2016. The six countries agreed to conduct the joint assessment.

The draft proposal by the MRCS, IWMI and China was submitted to the MCs for a review in April 2017 and their comments and suggestions were provided back in June/July 2017.

Finally, the final Proposal of the Joint Research has been [approved](#) and implemented after the Regional Consultation in Siem Reap on [3 October 2017](#).

Background – recent works





THANK YOU

One Mekong. One Spirit.