PROPOSAL OF ACTIVITIES FOR THE INITIATIVE “ENHANCING CLIMATE SERVICES FOR IMPROVED WATER RESOURCES MANAGEMENT IN VULNERABLE REGIONS TO CLIMATE CHANGE IN LATIN AMERICA AND THE CARIBBEAN COUNTRIES (CliMWaR-LAC)”

This proposal has been prepared by the Sub Department of Information, Monitoring and Prevention for Integrated Risk Management (IMP-GIR) of the Ministry of Agriculture of Chile to be connected with the initiative “Enhancing Climate Services for Improved Water Resources Management in Vulnerable Regions to Climate Change in Latin America and the Caribbean Countries (CliMWaR-LAC)”.

The proposed activities are going to be described in the followings lines, for every topic of the global initiative.

# 1. Improved integrated drought risk management towards a policy for drought preparedness

## Support the further development of national drought monitoring and early warning capacities

International Symposium on Drought Management Tools 2016, or, an International Seminar to share experiences between countries related with Agroclimatic Observatory for establishment of joint work areas. Topics to be considered: available information, collaborative work, institutional framework (Technical Committee); integration of the Scientific community, information according to every kind of users (farms, advisors, authorities, etc.); integrating of monitoring and preparedness for disasters; etc.

## Develop effective methodologies to asses drought vulnerabilities at the watershed level

To support a participative process to elaborate and validate a methodology for the assessment of socioeconomic impacts and vulnerability of drought. In order to construct and implement this methodology it will be integrated the public and private sector, and academics in the process. In addition, it will be formed a working group to coordinate, from the central level, the application of a work plan.

## Contribute to the development of drought preparedness policies and mitigation strategies

International Symposium on Drought Management Tools 2016; or, an International Seminar to share experiences between countries related with Agroclimatic Observatory for establishment of joint work areas. Topics to be considered: available information, collaborative work, institutional framework (Technical Committee); integration of the Scientific community, information according to every kind of users (farms, advisors, authorities, etc.); integrating of monitoring and preparedness for disasters; etc.

# 2. Training of multiple stakeholders to strengthen capacities on climate services targeting water resources management and to increase resilience to climate hazards

To develop an e-learning training course on drought and vulnerability. The course will be developed at the framework of collaborative network of professionals of the countries. It will be implemented at the own learning platforms, without costs for users; course intended for training of professionals of the agricultural sector. It could be possible to integrate this course to other platforms, for example, to the World Bank Group (Open Learning Campus) to be widely available. This activity will be financed with the support of countries and partners, and it will be explored the possibility that the World Bank contributed to its concretion.

# 3. Strengthening of the community of practice on dryland management (GWADI-LAC) to support development and implementation of climate risk management in the region.

## Dryland Expert Database and Regional Handbook of Drought Management

A board or working group coordinated by the Sub Department IMP-GIR to construct a Chilean Dryland Experts Database (participative process) to integrate the existing Dryland Expert DB, being modeled taking account the Open Learning Campus of the World Bank Group or other similar platform for knowledge. This kind of model consider collaboration networks between people, knowledge access y courses offerings and documents, contact with experts, etc. This will permit to count on articles and documents with the purpose to be added to the Handbook of Drought Management Tools. At this part of the initiative it will be possible to add measures and practices identified for agriculture of dryland areas, and an App mobile developed for this purpose.[[1]](#footnote-1)

## International Symposium on Drought Management Tools 2016.

Lecture of the Chilean experience on collaborative work with public and private sector for drought risk management (monitoring, early warning alerts system, etc.), emphasizing on dryland areas.

# 4. Implementation of climate services to improve water management across spatial and temporal scales

## Climate and meteorological services

To develop a Mobile Application for users of local level with Access to real time meteorological information, alerts, forecasts and recommendations of actions. This App incorporate the available information developed by the different platforms of the Sub Department IMP-GIR.

To develop models that link the agroclimatic information available and forecasts of yields or others indicators of agricultural production.

To strengthen backup and security systems for agroclimatic information, for existing platforms and mobile App. High capacity server for data saving, response speed and information guaranties.

# 5. Building climate resilient watersheds while enhancing their ecosystem services

To print and broadcast adaptation practices. Handbook for dryland areas.

Mobile App for field practices related to adaptation (step by step implementation of each practice, maintenance, recommendations of production and market). This App will be based on a Handbook developed for dryland areas, INIA experiences on regenerative agriculture, holistic management, Keyline system, rainfall harvesting, etc.

1. In the TCP/CHI 3403 Project was elaborated a Handbook that it contains these measures and practices. [↑](#footnote-ref-1)