MONETIZING WATER SAVINGS

**TYPE:** NATURE-BASED SOLUTIONS; SUSTAINABLE AGRICULTURE AND LAND USE  
**GEOGRAPHY:** CENTRAL / SOUTH AMERICA  
**LAB CYCLE:** 2020  
**PROPOSENT:** FEMSA FOUNDATION, WORLD RESOURCES INSTITUTE  
**OTHER IMPLEMENTATION PARTNERS:** CAUCE BAJÍO, GRUPO PAISANO, NUUP, RIEGGO, RRG SOLUTIONS MEXICO

Inefficient water use by agricultural producers in water-stressed regions of emerging markets is increasing the vulnerability of smallholder rural farmers in arid and semi-arid areas, while also affecting regional water supply and food production security.

Improving agricultural irrigation practices has enormous potential to address water crises, but farmers in developing and emerging countries often lack the right resources, business models to participate in, or incentives to implement them.

Monetizing Water Savings (MWS) aims to provide smallholder agricultural producers, with the necessary incentives and resources to increase their productivity while increasing water efficiency, improving soil quality and increasing the climate resilience of already water-stressed regions.

**INNOVATION**

MWS coordinates the efforts of government, corporations and agricultural producers to address irrigation inefficiencies in highly water-stressed regions of emerging economies.

MWS will establish an internal cooperative structure to aggregate multiple agricultural producers and facilitate the adoption of modern equipment, sustainable agriculture practices and Nature-based Solutions (NBS). This cooperative structure will allow farmers to have a stake in the initiative, while gaining a dedicated selling channel for their products to an anchor corporate partner.

For the first time in an emerging country’s water sector, MWS will also design a “pay for performance” scheme to monetize the benefits that corporates, water utilities and other stakeholders may accrue from increased long-term water security and availability.

**IMPACT**

Proposed by the FEMSA Foundation and World Resources Institute, the pilot project targets water efficiency of 4,000 grain producers across an area of 20,000 hectares in Guanajuato, the second highest water-stressed region in Mexico.

Implemented in conjunction with its regional partners, the MWS model is projected to increase farmers’ yields by approximately 30%, while reducing water consumption by 3,500 cubic meters per hectare per year, equivalent to saving seven Olympic-sized swimming pools of water every year.

Additional benefits include improving biodiversity, increased resilience to drought and the potential transfer of a portion of the water savings to water utilities and consumers in nearby urban centers.

**DESIGN**

MWS is envisioned as a Special Purpose Vehicle
INVESTMENT OPPORTUNITIES

The initial estimate to set up the 20,000 hectares pilot project is $10 million, comprised of blended finance from impact and commercial investors, development finance institutions, local government agencies and the anchor corporate partner.

RRG Solutions Mexico will be involved in raising capital, structuring a viable financial product, and identifying the correct investment size and expected returns for the pilot project.