

INCLUSIVE SANITATION BUSINESSES

SUSTAINABLE SOLUTIONS IN PERI-URBAN AREAS OF BOLIVIA

Water For People (WFP) promotes the sanitation value chain through the installation of Baños Ecológicos Secos (BES), waterless eco-sanitation toilets through which WFP is generating inclusive businesses, creating demand and adapting products for low income families

ACTORS INVOLVED WATER FOR PEOPLE | MAIN UNIVERSITY OF SAN SIMÓN | MICROBUSINESSES | GRASSROOTS ORGANIZATIONS | FAMILIES | PUBLIC ADMINISTRATION | INTERNATIONAL COOPERATION ACTORS

DISTRICT 9 OF COCHABAMBA, BOLIVIA

120,000 PEOPLE

85 USD/Month AVERAGE INCOME

59 Years LIFE EXPECTANCY

20% access to SEWAGE NETWORKS

15% access to SEPTIC TANKS

SOCIAL MARKETING

WFP has designed its strategy around the extension of the BES, a sanitation system that allows toilets to be linked to other products such as showers, sinks or washers

Social marketing campaigns are carried out through television, radio and newspapers, as well as through practical demonstrations with systems already in use. Families are informed about different models, financing schemes and, later on, proper use guidelines and maintenance

45% SAVING VERSUS CONNECTING TO THE SEWAGE NETWORK

56% OF FAMILIES PREFER THE BES TO FLUSH TOILETS

SUSTAINABILITY



► With the support of the firm Casa del Ceramista the design of the BES has been improved reducing its cost by 34%



► The commitment from the Government to provide universal sanitation coverage by 2025 could lead to 6,000 new BES potentially being built per year in Bolivia



► SISE has become operationally viable after reaching a minimum demand of 8 BES per month

12.3% of the BES have been acquired through a micro-finance program since the construction cost is approximately 50% more than the average annual salary

SYSTEM INSTALLATION

The micro-business Servicio Integral de Saneamiento Ecológico (SISE), founded in 2010, is responsible for constructing the BES and supplying materials at affordable prices

At the moment families contribute between 72-85% of the total value and the rest is paid by WFP

22 MEN TRAINED IN BES CONSTRUCTION

25 WOMEN TRAINED IN BES CONSTRUCTION

40% MORE AFFORDABLE BES CONSTRUCTION COMPARED TO THAT OF FLUSH TOILETS

EXTENSION OF THE MODEL

► First replicas in peri-urban areas of Bolivia are taking place in Santa Cruz and Riberalta

► The extension of the BES has institutional support from the Vice-ministry of Drinking Water and Basic Sanitation as well as the National Service for the Sustainability of Basic Sanitation Services

EXTENSION OF THE VALUE CHAIN

The micro-business Unidos por el Cierre del Ciclo Ecológico (UCCE), created for the disposal, transformation and enhancement of waste, sells transformed products (compost and liquid fertilizer) from its processing plant and in specialized fairs

The design of the BES toilet facilitates waste disposal by storing solid and liquid waste in different deposits

80 FAMILIES HIRE DISPOSAL SERVICES

↓ THE ENVIRONMENTAL IMPACT OF WASTE IS PRACTICALLY ZERO

95%

BES UTILIZATION RATE AFTER ONE YEAR

162 BES INSTALLED

PROVIDING SERVICE TO APPROXIMATELY 800 PEOPLE

4,000 LTS. OF WATER PER YEAR

SAVED BY FAMILIES USING BES INSTEAD OF FLUSH TOILETS