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.

**SUSTAINABLE SOLUTIONS IN PERI-URBAN AREAS OF BOLIVIA**

**INCLUSIVE SANITATION BUSINESSES**

**INCLUSIVE SANITATION BUSINESSES**

**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

**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**
- **40% more affordable** BES construction compared to that of flush toilets

**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**

**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**

- **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

**December 2013**

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**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

**INNOVATION IN ACCESS TO BASIC SERVICES: FIVE CASE STUDIES**