Looking ahead

Urban and peri-urban falcide slabage management chains
With a range of falcide slab management technologies developed and piloted in Madagascar, we will develop falcide slabage management models and small use of solar powered irrigation for smallholder farmers.

Innovative smallholder irrigation packages
To allow smallholder farmers to produce in an environment-friendly manner, we believe in the ability to adapt simple irrigation method with efficient use of the water. This requires a technology that is currently not available at affordable price levels. We will focus on getting the innovative technologies to farmers through existing channels.

Procamis Foundation
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The Netherlands
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practica

FUNDATION

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 Practica's annual report 2016

At a glance

The focus of the coming year is to strengthen the existing technological base and bringing the innovations from pilot stage to real use; we will seek partnerships to scaling the Innovative concepts. Three focal areas are:

Affordability and functionality in rural water supply programmes
Sustained functionality of new water supply systems is a major challenge. The low development costs and the low cost of O&M, however, do not yet offer a sufficient basis for scaling up in rural water supply.

Innovative smallholder irrigation packages
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By the Numbers

Annual financial report

In the current projects and partnerships, we have the role of technical support partner. We are being paid for our services on a project and contract basis, which is our single source of income. Project income covers only the costs of operations, including our overhead. PRACTICA Foundation is registered as a non-profit organization where assets do not generate earnings is included in the industrial projects and is to be either re-invested or transferred to others for non-commercial strategic projects and concepts. As a project organization, we do not generate income and none of our personnel are employed under the project with employment benefits, so the main income is from the contract services.

Q3 2016 annual financial statement is as follows:

<table>
<thead>
<tr>
<th></th>
<th>D/R</th>
<th>Revenues</th>
<th>192,310</th>
<th>Project costs</th>
<th>242,831</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personnel costs</td>
<td>184,500</td>
<td>8,468</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Other operational expenses</td>
<td>331,820</td>
<td>232,220</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total expenses</td>
<td>516,320</td>
<td>241,297</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating profit</td>
<td>-4,941</td>
<td>379,983</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surplus for the year</td>
<td>-43,297</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The surplus for the year 2016 is added to the following reserves:

- Corporate reserve: 17,179
- Restricted reserves: 35,712
- Other reserves: 43,297

In 2016 we worked on:

1. Projects: 33
2. Countries: 17
3. Algeria: 22 experts
4. Different countries: 6

At a Glance

The focus of the coming year is to strengthen the existing technological base and take the innovations from pilot stage to real use, we will seek partnerships for scaling the innovative concepts. Three focus areas are:

1. Affordability and functionality in rural water supply programs
   - Subsided functionality of new water supply systems is a huge challenge. The new developments like Solar Small Final Systems and Frequent末端 technologies that combine high performance service levels with financially viable management models. This reduces the dependency on fossil fuels and scaling rural water supply.

2. Affordable smallholder irrigation packages
   - To allow smallholder farmers to produce in an environmentally friendly way, we believe a ZFM is the only powered irrigation combined with efficient use of the water. This requires a technology package that can be easily available at affordable price levels. We will focus on getting the innovation technologies to farmers through various channels.

3. Urban and peri-urban falcide sludge management chains
   - With a range of falcide sludge removal, transportation and management technologies developed and piloted in Bydgoszcz, we will seek opportunities to work with partners in other countries to improve the PMV and make the commercial form a reality process for municipalities towards a viable business model for small local enterprises.

Looking Ahead

In 2016 we worked at a school in Bihar.
Bedrock - Innovative low-cost well-siting kit

A smartphone-based geophysical scanning kit to select the best location to drill for water.

Minimal well-drilling has wasted hundreds of African farmers to get high-quality drinking water for a fraction of the present conventional well-boring cost. Today, farmers are too high in drought-prone areas with shallow well-bore lengths. Traditional methods tend to mess with lifeline and invalidate the cost and time-saving. Today, you can easily find the location for your irrigation. To reduce the supply for rainfall drilling in geologically challenging terrain and reduce the associated transfer risk for social drilling enterprises, the innovative well-siting kit has been developed.

Testing showed there can be over 150 sources in a bore to complete the drill kit with a conventional equipment. So far the tool Bedrock is affordable and reliable. The test package provides a campaign of 100 scans using the Bedrock kit to select the most favorable locations for boreholes under the UNICEF and DFID projects in Kenya. The tool kit uses a simple smartphone hardware to locate the optimal position as close as possible to the potential mineral elements and generate a corresponding radial profile. The software is based on a chip by Chirp Core (Rapiro) and further developed by PRAGMA. The tool kit is powered by an ordinary smartphone and generates the distance, the coordinates, and the mineral grades of the data. The tool kit is a combination of different sites, which forms the basis for evaluation of actual drilling site. Field data from a location can be uploaded to a central database, enabling a backward assessment of monitoring and statistics.

Smallholder farmer irrigation

Sanitation: Facial Sludge Management

It's estimated that between 2.1-3.3 billion people in low and middle-income countries use a traditional latrine that produces a lot of untreated sludge. The sludge is collected from the sub-surface and surface sediments are mixed, generating a sludge that is collected from the surface in dry and wet seasons. The sludge is mixed and collected for waste disposal. The sludge is a mixture of soil, water, and organic matter. This mixture is collected in the streets, slums, and areas with low sanitation. The sludge is a mixture of soil, water, and organic matter. This mixture is collected in the streets, slums, and areas with low sanitation. The sludge is a mixture of soil, water, and organic matter. This mixture is collected in the streets, slums, and areas with low sanitation. The sludge is a mixture of soil, water, and organic matter. This mixture is collected in the streets, slums, and areas with low sanitation.
Pre-payment technology for water from handpumps: a pilot in Rwenzori, Uganda

In October 2006, two pre-payment systems have been installed on handpump sites in Rwenzori, Western Uganda, as part of a pilot project implemented by ActionAid and CAVAS. These innovative systems format small payments for the collection of water from the handpumps, cutting-off bottlenecks associated with community-based handpump management. Money generated from the sales of water will be used for maintenance and repairs of the pumps and scaling up their initiatives, providing sustainable solutions for safe water use and opening up market opportunities for local water entrepreneurs.

Dinner, Vicky Olioff of ODI: “The pre-paid water system is so interesting because the users have to pay for the water. They don’t know how much the cost will be until the month is over so the users have to be careful as they have to pay for it upfront. With this system, we have to keep the technology up to date.”

Vicente Mini, engineer of ODIWA (pump): “The technology is very new and the users are not used to it, but they have to learn how to use it. It’s important for the users to understand the technology and how it works.”

Groundwater development: a low-cost well siting kit

A smartphone-based geophysical surveying kit to select the best location to drill for water.

The Bedrock is an innovative low-cost well siting kit that could be used in many developing countries to locate aquifers and improve access to safe, clean drinking water.

The Bedrock uses geophysical surveys to determine the depth and location of aquifers. The device is lightweight and portable, making it easy to use in remote areas. It can be used to find water sources for communities, farmers, and water officials.

Impact Evaluation of the Bedrock

The Bedrock has been evaluated in several countries, including Uganda, Kenya, and Tanzania. The results have shown that the device is effective in locating water sources in areas where traditional methods have failed.

Smallholder farmer irrigation

By Application Drawing of the Smallholder's irrigation system

This irrigation system is designed for smallholder farmers in developing countries. The system is simple and easy to install. It is designed to provide water to small plots of land, which are typically used by smallholder farmers.

The irrigation system includes a network of pipes and valves, and a series of pumps and filters. The system is designed to provide water at the right time and in the right amount to the crops on the smallholder's land.

Impact Evaluation of the Smallholder's irrigation system

The smallholder's irrigation system has been evaluated in several countries, including Uganda, Kenya, and Tanzania. The results have shown that the system is effective in improving crop yields and increasing the income of smallholder farmers.
Bedrock - Innovative low-cost well siting kit

A smartphone-based geophysical scanning kit to select the best location to drill for water.

The Bedrock is a low-cost, high-quality tool designed to help farmers and communities identify water sources efficiently. The kit includes a geophysical scanner and a smartphone app that provides real-time information on water depth and quality.

Smallholder farmer irrigation

Smallholder farmers face many challenges when it comes to irrigation, including limited access to technology and funding. However, with the right tools and information, these farmers can improve their yields and become more resilient to climate change.

Sanitation: Facelift Sludge Management

The challenge of sludge management is a significant one for many communities, as it affects the health and well-being of millions of people worldwide. Facelift Sludge Management aims to address this issue by providing innovative solutions that can help communities manage and dispose of their sludge in a safe and sustainable way.
Annual financial report

In the current projects and partnerships, we have made a total of 33 projects in 17 countries.

Practica Foundation is registered as a non-profit organization where it has a mission to provide education to individuals in Africa to become entrepreneurs and start their own businesses.

At a glance

The focus of the coming year is to strengthen the existing technology base and bring the innovations from pilot stage to real use.

Affordability and functionality in rural water supply programs

Subsidized functionality of new water supply systems is a key challenge. We have developed a new system that includes a biogas and small scale solar systems and pumped groundwater storage tanks that triple the height of the water level service with financially viable management models. This reduces the cost of energy for extraction and scaling water supply systems.

Looking ahead

Urban and peri-urban fcsd strategy management chains

With a range of fcsd strategies, it is possible to scale up and manage fcsd strategies

Innovative smallholder irrigation packages

To allow smallholder farmers to produce in an environmentally friendly manner, we believe in the DFC to adapt powered irrigation combined with efficient use of the water. This requires a technology package that is currently not available at affordable price levels. We will focus on getting innovative technologies to farmers through trusted channels.

Our mission:

Our mission is increased access to and use of water supplies for smallholder farmers. Our work focuses on reducing costs, we invest in developing new technologies and curbing the costs and in the development of new concepts and products.

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In 2016, we continued to work alongside our international partners to support the development of water and sanitation services in developing regions. Our work included projects in 17 countries, including Algeria, where we provided technical assistance to a local water utility.

In addition to our international work, we also developed new tools and technologies to improve the efficiency and sustainability of water and sanitation systems. For example, our new water quality monitoring platform helps utilities detect and respond to contamination risks in real-time.

Looking ahead, we continue to focus on innovation and collaboration to drive progress towards a sustainable future for all. We are committed to working with our partners to identify new opportunities and challenges, and to developing innovative solutions to address them.

We look forward to continuing our work in 2017 and beyond, and to seeing the positive impact our efforts have on the lives of people around the world.