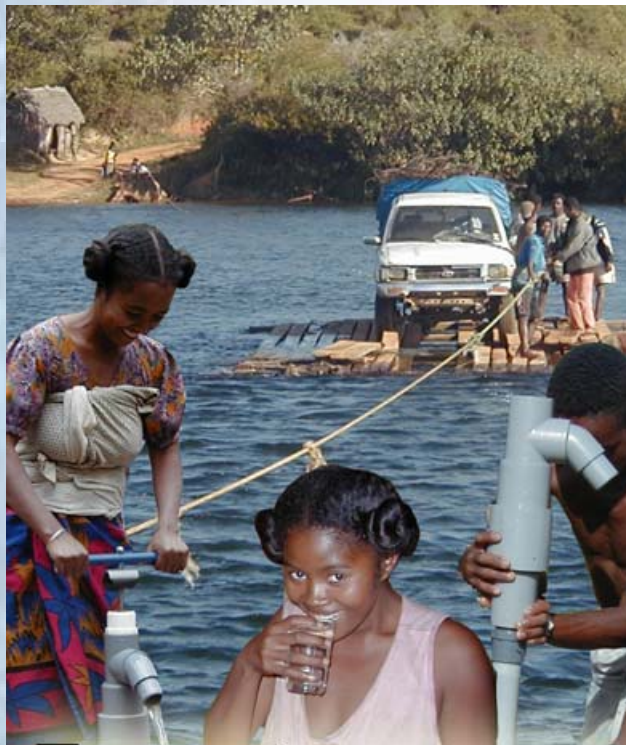


BushProof

Company Presentation



Water Supply, Sanitation, Appropriate Technology

Increasing the impact of your projects

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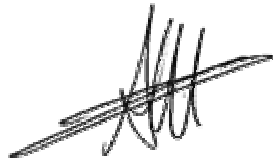
Sustainable Products & Services for Tough Environments

An award-winning social enterprise, BushProof Sarl is registered in Madagascar since 2005. Founded by former NGO professionals, we typically operate in a number of African and Asian countries. The services and products we provide can help you to significantly increase the impact of your projects.

BushProof's water & sanitation expertise covers all phases of the project cycle. Our novel well construction techniques have earned international recognition, but we also carry out consultancies and provide training. The development and manufacture of appropriate technical solutions is a growing activity.

In this brochure you'll find our capabilities explained. However, a key priority for BushProof is partnerships. As technical innovators and contractors, we will take time to understand your needs intimately before suggesting solutions. Do not hesitate to inquire from us of any needs related to water and sanitation.

Adriaan Mol



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More information on BushProof is found on our website www.bushproof.com. Here we publish information on our technologies, projects and latest developments.



LifeStraw Personal Filter



Low-cost Ceramic Filters



Micro-solar products assembled by BushProof in Madagascar



Products & Technologies¹

1. Well or water source construction & environmental sanitation

Water supply is our expertise: we always find a suitable solution, as we offer tailor-made solutions specially adapted to the particular water or sanitation problem in your project area and your own specific requirements.



1.1. Shallow wells - well jetting, rota sludging and hand drilling

Pioneered by BushProof, jetting allows the rapid construction of low-cost wells in sandy soils with a shallow ground water table. In Madagascar most coastal zones and river basins are suitable for well jetting: check with BushProof whether your area has potential. Jetting equipment is portable, and we can construct jetted wells almost everywhere – also when there are no roads. Other technologies are equally possible, including non-motorised techniques such as rota sludging, which can produce low-cost wells up to 30 meters deep.

Benefits of jetted wells

- High output - large discharge;
- Durable and long-lasting well;
- Low cost;
- Excellent water quality;
- Little or no need for water treatment;
- Maintenance-free;
- Rapid construction (1 day);
- Ideal for manual or engine suction pump.

Positively evaluated by the renowned Swiss water institute [SKAT/RWSN](#), jetting is ideal for household or village drinking water supplies, but is equally useful for enterprises, hotels or other users. Check our [website](#) for a video on jetting in action or request a CD by post.



On request, we also carry out beneficiary training in operation, repair and maintenance following the construction of village water points.

BushProof can furthermore organise participatory community meetings during project preparation or implementation to ensure participation, ownership and enhanced sustainability of the infrastructure.

Hygiene promotion and sanitation are essential components of water projects. BushProof advises on technology options, project methodologies, teaching materials and training.

¹ BushProof continuously improves its products, therefore technical specification and content may change without prior notice. Consult us for updated information.

1.2. Deep wells – machine drilling

Where jetting or surface water sources are not feasible, a deep well will provide a long-lasting, reliable, safe water source. BushProof operates a rotary mud-flush drilling rig. Suitable for alluvial and soft rock formations, this robust machine can drill to a depth of 60 meters.



The drill is specially designed for the bush and performs well in remote locations and difficult conditions, even those only accessible on foot or by canoe. In other words, we construct quality water points in every situation.

Benefits of drilled wells

- Reliable, durable source delivering high quality water;
- Maximum depth: 60 meters;
- Not restricted to alluvial areas;
- Well diameter: up to 150mm, so ideal for both manual or submersible pumps;
- Cost-efficient and maintenance-free;
- Construction typically within one week.

1.3. Water supply for individuals, villages and small towns

BushProof can ensure the design and construction of:

- Hand dug wells;
- Surface water intakes;
- Gravity flow and piped distribution systems;
- Protected, filtered sea water intakes for swimming pools, marine research or desalination;
- Spring protection;
- Rainwater harvesting;
- Irrigation;
- Groundwater dams;
- A diverse array of household and village water treatment systems, including filtration, flocculation and disinfection;
- Water lifting (manual, electrical or mechanical pumping);
- Water quality testing (bacteriological / chemical);

**1.4. Environmental sanitation**

In addition, BushProof has expertise in the following areas:

- Environmental sanitation, including toilets ranging from latrines (eco-sanitation) to septic tanks;
- Solid waste management options, including health care waste management.
- Hygiene education / promotion.



2. Manufacturing – appropriate technology

BushProof operates a well equipped workshop in Antananarivo where we produce a variety of pumps, including the [Canzee](#) hand pump, the Treadle irrigation pump and a low-cost family pump.



In addition, we produce or supply water well drilling materials, such as casing, screens and geo-textile. We also fabricate manual and mechanical drilling equipment. Appropriate technology development is an ever-growing activity. This includes the development and production of prototypes.

Besides drinking water and irrigation, we also manufacture or assemble renewable energy and agricultural products.

3. Supply & Distribution

BushProof distributes and sells a number of unique appropriate technology products.

Drinking water

Various types of personal and household water treatment solutions such as bio-sand and ceramic filters, SODIS bags, Canzee or Treadle pumps and water-saving hand washing dispensers.



Renewable energy

We can supply pico-hydro units (small electricity generators powered by flowing water) as well as micro-solar panels. Both options are ideal for operating radios, mobile phones, indoor (white LED or fluorescent) lighting or other electrical devices in the absence of a reliable power grid.

4. Consultancies & Training

Our water and sanitation experts can support your projects by carrying out feasibility or baseline studies, surveys, monitoring, evaluation and training of local and international staff. Technical studies are undertaken on behalf of clients that have a particular (water / sanitation) problem. Water and sanitation consultants are available for a wide range of technical and social tasks, including hygiene promotion.



BushProof staff has extensive multi-sectoral [emergency relief](#) experience, covering not only water and sanitation, but also assessments, distributions, refugee situations, construction, logistics and programme management. BushProof provides staff for short-term missions following emergencies around the world.

BushProof also provides certain expertise on agriculture, soil management, irrigation as well as small farmer trainings. We regularly organise annual [training courses](#) in bio-sand filtration or water supply for relief and development situations.

Track Record & References

International experience & response capacity

Our ability to deliver quality and innovation has been internationally recognized by a growing number of international clients and partner organizations. In 2005, we were especially honored to receive the prestigious World Bank global Development Marketplace award.

BushProof staff has significant professional experience in the following countries:

Africa

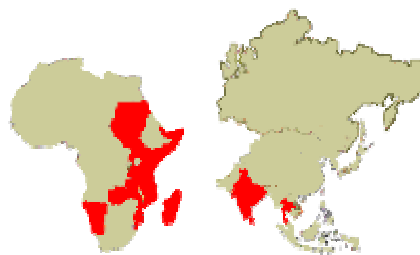
Angola
Djibouti
Kenya
Madagascar
Mozambique
Rwanda
Somalia
Sudan
Uganda

Asia

Afghanistan
Bangladesh
India
Pakistan
Sri Lanka

Other countries

Armenia
Chechnya
Dagestan
Russia
United Kingdom



Track record

Recently we have helped our clients achieve the following outputs:

Well construction

- 350 jetted wells in remote areas on behalf of (inter)national NGOs and the World Bank;
- 15 machine drilled wells in the Fianarantsoa and Antananarivo provinces.

Training

- Tailor-made bio-sand filter trainings in Kenya for international NGO participants;
- Training course in participatory techniques and baseline survey implementation.

Consultancy

- Water resource inventory for water source solutions for a large irrigation project;
- Water supply feasibility studies for a number of NGO and commercial clients;
- Evaluation of a large EU-funded emergency response project;
- Emergency Response: technical support to relief interventions in Sudan (Darfur), Madagascar (cyclone), Uganda (civil war), Sri Lanka (Tsunami) and Pakistan (earthquake);
- Conceptualisation of a participatory training manual for a multinational water company;
- Design, supervision and analysis of a baseline survey for drought mitigation project.

Client organisations

BushProof has worked with numerous national and international NGOs including SAF / FJKM, World Bank, German Agro Action, Medair, Tearfund, ICCO, BioForce and ALT (Andrew Lees Trust).

Private sector clients have international agro businesses and multinational mining companies.

Contact Details

BushProof is registered in the UK and Madagascar

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Vision

Our vision is to significantly contribute towards achieving the Millennium Development Goals through innovative solutions that positively impact the health and wellbeing of people living in low-income countries.

Mission

BushProof provides the means to scale up relief and development initiatives for people living in low-income countries. Our innovative technologies and professional services have a rapid and widespread application. BushProof products are specifically designed for the tough and remote environments commonly encountered in much of the developing world. They are easy to use and maintain. They work and last. Durability, affordability and reliability are key features. Delivered rapidly, this guarantees maximum impact where it is needed most. Training and consultancies provided by BushProof maximise the effectiveness of other organisations to implement cost-efficient, high impact programmes.

BushProof believes that economic and human development is more sustainable when products are commercially viable. This happens when sufficient demand is created for products that are manufactured through the private sector, whilst remaining affordable and available to low-income households. We believe that good market opportunities can be developed at the 'bottom of the economic pyramid' for products that improve health and wellbeing of low-income populations.

In order to create local economic benefits, BushProof endeavours to locate production in low-income countries. We are committed to re-investing a percentage of profits into research and pilot programmes in order to broaden the scientific knowledge base of innovative technologies.

Professional membership

BushProof participates in several professional networks. We are a member of the international World Health Organisation's Network for Household Water Treatment and Safe Storage. In Madagascar, BushProof is a member of the national WASH committee. BushProof is furthermore part of the UNDP Growing Sustainable Business for Poverty Reduction initiative.

Awards

BushProof is a winner of the 2005 World Bank global Development Marketplace competition and a DM2006 Finalist. In 2006, BushProof was nominated Finalist in the Ashoka Changemakers Innovation Award for social entrepreneurs.