

## Curriculum Vitae

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<b>Name</b>	<b>Kerstin Danert</b>
<b>Firm</b>	Skat
<b>Address</b>	Vadianstr. 42, CH-9000 St. Gallen, Switzerland
<b>Tel</b>	+41 71 228 5433
<b>Email</b>	kerstin.danert@skat.ch
<b>Profession</b>	Rural Water Supply Specialist
<b>Date of Birth</b>	21 February, 1972
<b>Years with Firm</b>	Eight
<b>Nationality</b>	German (lived in UK from age 5 to 22)

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### KEY COMPETENCIES

Kerstin Danert has 18 years of experience as a rural water supply specialist focusing on developing capacity with respect to sector performance monitoring, operation and maintenance, cost-effective borehole drilling and technology adoption. Over the years Dr Danert has managed and undertaken thematic work & country studies and published several guidelines for rural water supplies and has extensive experience in documentation of experiences of improving domestic and agricultural water supplies in rural areas.

Dr Danert is skilled in integrating the institutional, socio-economic, cultural and technical aspects of rural water supply service provision in developing countries. She has provided face-to-face advisory and capacity development services to national and local Governments, NGOs and the private sector in over 15 countries in sub-Saharan Africa and remote support for many more. She is an experienced event facilitator.

Since 2009, Dr Danert has led the secretariat of the Rural Water Supply Network (RWSN). She is a skilled leader, motivator and facilitator with respect to knowledge sharing and networking. She was director for the 6<sup>th</sup> RWSN Forum in Kampala (2011) and the 7<sup>th</sup> Forum in Abidjan. These bilingual events (French/English) each drew 480 participants from 54 and 65 countries respectively. She proactively connects different organisations and individuals to encourage collaboration, sharing and mutual learning.

### EDUCATION

<b>2003</b>	<b>PhD</b> - "Technology Transfer for Development – Insights from Low Cost Water Well Drilling in Uganda", Cranfield University, UK
<b>1998</b>	<b>MSc</b> in Infrastructure Engineering (Community Water Supplies), Cranfield University, UK
<b>1995</b>	<b>BEng DiplEng</b> in Mechanical Engineering with First Class Honours, University of Strathclyde, UK & University of Hanover, Germany

### LANGUAGES

	<b>Speaking</b>	<b>Reading</b>	<b>Writing</b>
English	Fluent	Fluent	Fluent
German	Fluent	Excellent	Good
French	Excellent	Excellent	Good

## COUNTRY EXPERIENCES

**Africa** (Chad, Democratic Republic of Congo, Ethiopia, Ghana, Kenya, Ivory Coast, Liberia, Malawi, Niger, Nigeria, Senegal, Sierra Leone, South Sudan Uganda, Zambia); **Asia** (India, Pakistan, Nepal, Bangladesh, Philippines, Hong Kong); **Europe** (UK, Switzerland, Germany, Greece)

## EMPLOYMENT RECORD AND PROFESSIONAL EXPERIENCE

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**Skat, St. Gallen, Switzerland** **2008 – date**  
**Water and Environment Specialist**

**Director of Rural Water Supply Network (RWSN) Secretariat** 2009 – date  
**(SKAT/SDC/WaterAid/World Vision/Rain Foundation), Switzerland**

Management of the secretariat of a global knowledge network for rural water supplies with a membership of over 9,000 professionals and practitioners from 150 countries. Liaison with partner organisations (UNICEF, World Bank Group, IRC, SDC, African Development Bank and WaterAid). Overall coordination and support to thematic areas (Sustainable Groundwater Development, Accelerating Self Supply, Sustainable Services and Equality, Non-discrimination & Inclusion and Mapping and Monitoring). Quality assurance of RWSN publications, website ([www.rural-water-supply.net](http://www.rural-water-supply.net)), and newsletters. Overall management of RWSN's online knowledge-sharing events including webinars, e-discussions and forums. Director of the 7<sup>th</sup> RWSN Forum in Abidjan entitled "Water for Everyone", in which 480 participants from over 65 countries participated.

**Project manager – Striving for Professionalism in Cost-Effective Boreholes** 2015 - 2017  
**(UNICEF/WaterAid/National Ground Water Association)**

The project addresses the related problems of poor quality and high cost of drilling and installation of boreholes, particularly in rural areas. Production of four animated films in collaboration with UNICEF, WaterAid and the National Ground Water Association. Publication of a guidance note on professional drilling. Mentoring and providing remote support to UNICEF programme staff in 16 countries in Africa. In-country work - training 35 professionals in Zambia on Procurement and Contract Management of Borehole Drilling, leading an assessment of manual drilling in the Democratic Republic of Congo and a study of the water well drilling sector in Burkina Faso.

**Lead Researcher – Study and Learning Note on the Effectiveness of Joint Sector Reviews in Fragile States (Water and Sanitation Programme of the World Bank)** 2015

Management of team and lead researcher of project to examine the effectiveness and relevance of joint sector reviews for water and sanitation in fragile states. Desk review of 25 countries followed by field work in Nepal. It includes detailed examination of the humanitarian-development transition, reforms, national programmes, coordination between state and non-stake actors, monitoring and stakeholder perceptions of joint sector reviews and field work in Nepal.

<b>Knowledge Broker and Chair of the Programme Coordination Group (PCG) for Unlocking the Potential of Groundwater for the Poor – UPGro (NERC/ESRC/DFID, United Kingdom)</b>	2013 - 2020
<p>UPGro is a seven-year international research programme to improve the evidence base around groundwater availability and management in Sub-Saharan Africa and thus enable developing countries and partners to use groundwater in a sustainable way to benefit the poor. The Knowledge Broker team streamlines internal and external communications and knowledge sharing in the programme and ensures that the findings and outputs are translated and presented to policy makers for uptake and improved decision-making. The Programme Coordination Group ensures that the projects are networked, communicate effectively and undertake interdisciplinary research.</p>	
<b>Liberia WASH Sector Performance Report and Joint Sector Review (Water and Sanitation Programme of the World Bank)</b>	2014
<p>Supporting eight agencies and ministries of the Government of Liberia to produce the first WASH Sector Performance Report (SPR) and prepare for the 2014 Joint Sector Review (JSR). Responsible for galvanising interest in preparing the report, reviewing written material from the Liberian authors and providing feedback. Also compiled and edited the final report, including facilitation of peer review within Liberia. Provided coaching on presentation and supported the process to plan and run the 2014 Joint Sector Review.</p>	
<b>Framework, Implementation Programme and Handbook for Operation and Maintenance of Water Supplies in Northern Bahr el Ghazal State, South Sudan (SDC)</b>	2013 & 2014
<p>Support to the Northern Bahr el Ghazal State Ministry for Water, Cooperatives and Rural Development to develop a vision, and coordinated approach for the operation and maintenance of rural water supplies including pump and spare parts supply chain.</p>	
<b>Cost-effective Boreholes in Sierra Leone (DFID)</b>	2013 - 2014
<p>Management of a project to support the Ministry of Water Resources to improve national capacity to manage, supervise and undertake borehole drilling. Project includes the development of a national code of practice for cost-effective borehole drilling. Management of three short courses covering on basic hydrogeology and siting; procurement and contract management and drilling supervision.</p>	
<b>Professionalising Manual Drilling (UNICEF)</b>	2012 - 2014
<p>Documentation and review of efforts by UNICEF country programmes and others to professionalise manual drilling in 15 countries in Africa. Interviews with UNICEF and National Government staff and manual drilling promoters. Design and development of a manual drilling compendium. Field visits to four countries including Chad in 2013 to document manual drilling experiences.</p>	
<b>Country-led monitoring of rural water supplies (IRC)</b>	2013
<p>Leading the topic of country-led monitoring at the Symposium on Sustainable WASH Service Delivery in Addis Ababa in April 2013. Peer review and support to papers and presentations from Timor-Leste, Malawi, Uganda, South Africa, Nicaragua, West Africa, Thailand and Central America. Delivery of keynote and facilitation of six sessions the symposium.</p>	

<p><b>Moderation of GLAAS Evaluation Workshop (WHO)</b></p> <p>Supporting the team responsible for the Global Analysis and Assessment of Drinking Water (GLAAS) in the preparations for and moderation of the GLAAS evaluation meeting in Bern, Switzerland.</p>	2012
<p><b>Series of Publications on Rural Water Supply (SDC/IFAD)</b></p> <p>Management and writing a series of five publications that bring together the key aspects of rural water supply programming. Each volume is a stand-alone document, but as a set, they cover the programme cycle from understanding the issues right through to implementation and reporting</p>	2012
<p><b>Writing Course for WASH Professionals (SHARE/WaterAid)</b></p> <p>Developing and running a two-day writing course for WASH professionals. The training materials have been published on the RWSN and SHARE websites. WaterAid and Helvetas have run further courses internally.</p>	2012
<p><b>Rural Water Supply Target for the 6<sup>th</sup> World Water Forum in Marseille (SDC)</b></p> <p>Within the Target 1.1 on <i>Water for All and the Human Right to Water</i>, leading the rural water supply target. This involved compiling and synthesising over 80 solutions on rural water supplies; managing a session, including keynote address by Hon. Minister Maria Mutagamba (Water &amp; Environment, Uganda); supporting inputs by a rural water user from India; running workshop activities; encouraging political commitments and raising the profile of rural water solutions at the event.</p>	2012
<p><b>Professionalising borehole drilling (UNICEF)</b></p> <p>Management of two back-to-back projects that aim to professionalise water well drilling in sub-Saharan Africa. The first was in relation to mechanised drilling, with a focus on Sudan, Nigeria and Sri Lanka as well as the development and publication of guidance materials on: siting, drilling supervision, procurement and contract management. The second is in relation to the professionalization of manual drilling, focusing on documenting experiences and supporting efforts in 15 countries in sub-Saharan Africa.</p>	2011 - 2013
<p><b>6<sup>th</sup> Rural Water Supply Network Forum in Kampala, Uganda in 2011</b></p> <p>The bilingual (English/French) event provided 25 thematic sessions on all aspects of rural water supplies and 28 exhibitors for 480 people from 54 countries. Director of the event, with the responsibilities of coordinating the development of the concept and forum structure; promotion; liaising with partner organisations; managing the call for and review of over 140 papers; posters and films; fundraising, financial management and managing translators, event manager and venue.</p>	2010-2012
<p><b>Country Status Overview (CSO) Report of Water and Sanitation in Uganda (Water and Sanitation Program, WSP-AF of the World Bank)</b></p> <p>Assessment of the performance of Uganda in delivering the Water Supply and Sanitation (WSS) Millennium Development Goals (MDGs) based on benchmarking of service delivery pathways, past spending and future needs versus commitments for the rural and urban water context. Analysis of how money is being turned into WSS services, where it is getting stuck and where it is flowing into sustainable service models using the CSO assessment framework. Engagement in and facilitation of country sector dialogue that reaches consensus on key problems and practical solutions. Work carried out in collaboration with the Ministry of Water and Environment (MWE), Uganda and under the auspices of AMCOW.</p>	2009 - 2010

**Develop Code of Practice for Cost Effective Boreholes (UNICEF/USAID), Burkina Faso, Ghana, Nigeria, Sudan, Zambia and Switzerland** 2009 - 2010

Management of a series of research and development projects to develop a generic code of practice for cost-effective boreholes which sets out to improve the professionalism of water well drilling; tendering; contract management procedures and ensure that well designs fit water supply use. Project includes case studies in Burkina Faso, Ghana, Nigeria and Zambia.

**Domestic Rainwater Harvesting in Uganda** 2009

Identification of private-sector based distribution plans for potential domestic roofwater harvesting (DRWH) products under design by the client. Collection and analysis of information relevant to the product design to ensure that the product's value propositions are consistent with the business interests of commercial stakeholders in prospective distribution channels and with the needs and preferences of the final customers.

**Water and Environment Sector Performance Monitoring Report (Ministry of Water and Environment), Uganda** 2004 - 2010

Technical support to the Ministry of Water and Environment for data analysis and compilation of the Uganda Water and Environment Sector Performance Report. The report is the single most important document of the sector and includes information with respect to access and functionality of water supplies, sanitation and hygiene improvements, per capita investment costs, budget performance and programme outputs. In 2009 and 2010 the report covered the Environment and Natural Resources sub-sector (trees and forests, wetlands and aquatic resources and environmental management). The work involves extensive dialogue with Government departments and quality control as well as synthesis of their inputs.

**Operation and Maintenance Framework (UNICEF), Malawi** 2008

Study of operation and maintenance of rural water supplies in Malawi including field work in central and northern Malawi. Development of a national operation and maintenance framework and draft national action plan.

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**Freelance Consultancy Kampala, Uganda** 2003 - 2008  
**Water and Environmental Sanitation Specialist**

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**Theme Coordinator – Cost-effective Boreholes, Rural Water Supply Network (RWSN), Water and Sanitation Programme (WSP-AF of the World Bank)** 2005 - 2010

Coordination and strategy development of the RWSN research and advocacy flagship on Cost-Effective Boreholes. Management of studies in Ethiopia, Nigeria and Madagascar. In-depth study and extensive networking in Niger. Dialogue and information sharing with stakeholders throughout sub-Saharan Africa. Analysis of borehole cost and quality issues for several African countries. Development of Code of Practice for Cost-Effective Boreholes for UNICEF WASH Programmes globally. Co-management of the 5th RWSN forum in Accra in 2006, entitled "Scaling up local entrepreneurship in rural water supplies to meet the MDGs.

**Technical Advisor, Household Rainwater Harvesting Projects in Kapchorwa and Kabale (Diageo Foundation), Uganda** 2004 - 2009

Support to two small CBOs in remote parts of rural Uganda as they develop and implement their first household rainwater-harvesting projects. Facilitation of learning exchange with other organisations. Advice on project management, quality assurance, enterprise development and documentation with particular emphasis on learning, reflection and grass roots decision-making.

**Water and Sanitation Engineering Advisor to the Directorate of Water Development Ministry of Water and Environment (SIDA funded), Uganda** 2004 - 2007

Provision of advice to DWD and NGOs on piloting and promotion of innovative technologies and approaches for rural water supplies (rope pump, rainwater harvesting, iron removal and self-supply). Dissemination of operation and maintenance framework. Support for the coordination, data collection, analysis and editing of the Ugandan Water and Sanitation Sector Performance Reports (2005, 2006 and 2007). Capacity building of government staff in technical and social aspects to develop and implement national programmes, strategies and guidelines within a Sector Wide Approach to Planning (SWAP). Finalisation of the Water and Sanitation Sector District Implementation Manual (2007).

**Supervisor and Moderator of MSc Thesis (Uganda Management Institute) Uganda** 2005 - 2007

Supervision of MSc theses and moderation of oral exams.

**Team Leader: (i) Mid Term Review and (ii) Evaluation of Kigezi Diocese Water and Sanitation Programme (Tearfund UK), Uganda** 2004;2006

Leading a (i) review and (ii) evaluation of an NGO programme providing water, sanitation and hygiene education in rural Uganda. Analysis of programme relevance, effectiveness, impact, sustainability, efficiency, linkages and organisational capacity. Emphasis on on-going support for sustainability, hygiene and sanitation and scaling up. Extensive interviews of water users and discussions with programme staff as well as local and central Government and donors.

**Consultant, Interim Evaluation of Special Country Programme II (Small Scale Irrigation) (International Fund for Agricultural Development, IFAD) Ethiopia** 2004

Assessment of the viability of small-scale irrigation and women's vegetable gardens using IFAD's evaluation framework (evaluation of project performance, impact, gender mainstreaming, sustainability and performance of partners). Interviews with beneficiaries and programme staff throughout Ethiopia and data analysis.

**Consultant, Small Scale Irrigation in Ethiopia (Farm Africa), UK/Ethiopia** 2004; 2005

Developing a strategy for Farm Africa's future involvement in small-scale irrigation in Ethiopia. Extensive consultation with farmers, water user associations, NGOs and Government through site visits throughout Ethiopia.

**Technical Advisor, UWASNET (Uganda Water and Sanitation NGO Network), Uganda** 2004 - 2005

Supporting UWASNET to implement the Ugandan NGO Capacity Building Programme, develop their Networking Programme and set up a Monitoring and Evaluation system. Development of operational M&E procedures with staff and board. Support to ensure that UWASNET could respond to and influence Government policy and facilitate effective collaboration between NGOs and government at all levels.

**Draft/Edit the Water and Sanitation Sector Poverty Eradication Action Plan (PEAP) Revision Paper, Directorate of Water Development, Uganda** 2003

Literature review and consultation with sector stakeholders to ensure that the 2004 PEAP revision paper for the water and sanitation sector was succinct; captured pertinent issues and was consistent with Government of Uganda policy.

**Workshop Facilitation, Kigezi Diocese Water and Sanitation Programme, Uganda/Tearfund, UK** 2003

Development of strategies for the sustainability of community managed gravity flow schemes. Participants included scheme and local Government chairpersons and chiefs as well as representatives from NGOs, Government and Development Partners.

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**Research Assistant, Cranfield University, Silsoe, UK** 1998 - 2003

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**Private Sector Participation in Low Cost Water Well Drilling, Uganda** 2003

Co-ordination of participatory action research project in collaboration with central and local Government, local small enterprises and NGOs. Dialogue with key players in the water sector regarding decentralisation, privatisation and attitudes to low cost shallow well technologies. PhD research undertaken in this period.

**Part Time Lecturer** 2001 - 2003

Lectures and workshop sessions on MSc Course and professional development programmes on water and sanitation technologies and culture in development.

**Uganda Team Leader, Rural Water and Sanitation Private Sector Study, Uganda, Directorate of Water Development, Uganda/DFID** 1998 - 2001

Situation analysis and strategy development regarding the participation of indigenous private sector organisations in rural water supply and sanitation. Extensive qualitative interviewing of public, private and community stakeholders and support organisations throughout Uganda followed by a consultative process of strategy development.

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**Consultant, SAP AG, Waldorf, Germany** 1996 - 1997

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Supporting and training customers as they integrated SAP's business application software into their organisation. Specialising in HP-Unix platform and Oracle database.

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**Research Assistant, National Technical University of Athens, Greece** 1993

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Research and experimental work on pneumatic systems for turbomachinery.

## **REPORTS, PUBLICATIONS, CONFERENCE PAPERS**

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Carter R and Danert K (2006) *FARM-Africa Ethiopia: planning for small-scale irrigation intervention*, FARM-Africa Working Paper No. 4, FARM-AFRICA: London. <http://www.farmafrica.org.uk/resources/WP4%20Planning%20for%20Small%20Scale%20Irrigation%20in%20Ethiopia.pdf>

Carter RC, Chilton J, Danert K and Olschewski (2010) *Siting of Drilled Water Wells – A Guide for Project Managers*, Rural Water Supply Field Note 2010-5. Available on <http://www.rural-water-supply.net>

Carter RC, Danert K (2003) *The private sector and water and sanitation services - policy and poverty issues* [Journal of International Development](#) 15(8): 1067-1072.

Danert K (2006) *Only the beginning. A History of Hand Drilled Wells in Niger*, Rural Water Supply Network (RWSN) / Water and Sanitation Programme (WSP) Field Note.

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- Danert K (2009) *Realizing the potential of hand drilled wells for rural water supplies*. Waterlines Vol. 28 No 2, April 2009. Practical Action Publishing
- Danert K (2009) *Traditional and Modern (or Improved) Rural Water Supplies: Stories from Ethiopia and Niger* in Wilson, Furniss and Kimbowa (Eds). *Environment, Development and Sustainability*, Oxford University Press
- Danert K (2015) *Messy, varied and growing: country-led monitoring of rural water supplies*, In Schouten, T and Smits, S, (eds) (2015) *From Infrastructure to Services: Trends in monitoring sustainable water, sanitation and hygiene services*, Practical Action Publishing: Rugby, UK
- DANERT, K (2015) *Manual Drilling Compendium 2015*, Publication 2015-2, Rural Water Supply Network (RWSN), Available from: <http://www.rural-water-supply.net/en/resources/details/653>
- Danert K and Ssemugera F (2001) 'Private Sector Participation in low cost shallow well drilling - The Mpigi Experience' Water, Sanitation and Hygiene: Challenges of The Millennium:46-48 2001. WEDC Conference Proceedings
- Danert K, Carter RC, Adekile, D and MacDonald A (2010) *Cost-Effective Boreholes in sub-Saharan Africa* in Xu Yongxin and Braune E (Eds). *Sustainable Groundwater Resources in Africa*, UNESCO International Hydrological Programme, CRC Press, The Netherlands, ISBN 978-0-415-45273-1. Available on <http://nora.nerc.ac.uk/9185/>
- Danert K, Carter RC, Rwamwanja R, Ssebalu J, Carr G, Kane D. (2003) *The private sector in rural water and sanitation services in Uganda: understanding the context and developing support strategies* [Journal of International Development](#) 15(8): 1099-1114.
- Danert K, Luutu A, Carter RC and Olschewski (2010) *Costing and Pricing - A Guide for Water Well Drilling Enterprises*, Rural Water Supply Network Fieldnote 2010-6. Available on <http://www.rural-water-supply.net>
- Danert, K and Flowers, C (2012) *People, Politics, the Environment and Rural Water Supplies*, Volume 1, RWSN/IFAD Rural Water Supply Series, Rural Water Supply Network (RWSN) Available on <http://www.rural-water-supply.net>.
- Danert, K; Carter, RC; Adekile, D; MacDonald, A; and Baumann, E (2009) *Cost-Effective Boreholes in sub-Saharan Africa*. Paper presented at the 34<sup>th</sup> WEDC conference in Addis Ababa, Ethiopia
- Flowers, C and Danert, K (2012) *Finding Information on Rural Water Supplies*, Volume 4, RWSN/IFAD Rural Water Supply Series, Rural Water Supply Network (RWSN) Available on <http://www.rural-water-supply.net>
- Kimanzi G and Danert K (2005) *Out of projects and into SWAP - Lessons from the Ugandan rural water and sanitation sub-sector*. Paper presented at the 31st WEDC International Conference, Kampala, Uganda, 2005.
- McLean R.C Morrison S.J., Danert K Galbraith G.H (1997) *High-temperature occupational exposures: Investigation and control' Building Services Engineering Research and Technology* Series A, Chartered Institution of Building Services Engineers (CIBSE), 1997, Vol 18, No 3, pp 161-168, ISSN: 0143-6244.
- McLean RC, Danert K, Morrison SJ (2007) 'Hot occupational exposures: a corrected maximum exposure period to allow for sweating onset'. *Building Services Engineering Research and Technology* 28,2 pp 183-185.
- Ssozi, D and Danert, K (2012e) *National Monitoring of Rural Water Supplies: How the Government of Uganda did it and lessons for other countries*, Volume 5, RWSN/IFAD Rural Water Supply Series, Rural Water Supply Network (RWSN) Available on <http://www.rural-water-supply.net>
- UNICEF/Skat Foundation (2016) *Professional Water Well Drilling: A UNICEF Guidance Note, Cost Effective Boreholes Partnership of the Rural Water Supply Network by UNICEF and Skat Foundation*, Available from [www.unicef.org](http://www.unicef.org) and [www.rural-water-supply.net](http://www.rural-water-supply.net)
- Weatherhead, EK and Danert K, (2002) *Survey of irrigation of outdoor crops in 2001 - England* Department for Environment, Food and Rural Affairs (DEFRA).



## **PROFESSIONAL DEVELOPMENT**

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2015 One month French Immersion Course - Institut de Français in Villefranche-sur-Mer, France

2015 Introduction to Water Diplomacy - United Nations Institute for Training and Research, Geneva, Switzerland