

Dear Readers,



As part of the editorial team it is my turn to welcome you to this July ecosan newsletter. Based on strong demand from our French-speaking colleagues, we are also publishing a French version again (at the last count, we had 150 French-speaking subscribers). So from now on, this newsletter will be available in English, Chinese and French (you can subscribe to the French version [here](#)).

In this newsletter you will find information about the recent successful SuSanA meeting in Addis Ababa (Ethiopia). It was also encouraging to see the diverse presentations on sustainable sanitation at the WEDC conference which followed the SuSanA meeting. This shows that the importance of sustainability aspects is becoming more and more accepted in today's discourse on sanitation.

Contributions and feedback to this newsletter are always welcome (send to: ecosan@gtz.de). If you see this newsletter in a messy-looking text-only format, please adjust your e-mail program to display e-mails in HTML-format.

Yours,

Dr. Arne Panesar (ecosan@gtz.de)

News

Kenya

GTZ-Kenya investigates cost reduction options for UDD toilets – June 2009

The objective of this study was to identify UDDT (urine diversion dehydration toilet) cost optimization options with respect to amendments in design and construction materials and thus resulting in alternative bills of quantity. Optimization and cost estimates are based upon the assessment of various designs of UDDTs. This study is a follow-up of an artisan training course on the construction of UDDTs in Ugunja (Kenya) on 11 -12 February 2009 (which was mentioned in the last ecosan newsletter). During that workshop, experiences of two years of construction (approx. 250 UDDTs, 5000 beneficiaries) with emphasis on improving construction quality and cost reductions were discussed.

- [Study: Cost optimization of single door UDDTs in Kenya \(PDF; 1.1MB\)](#)
- [Excel file with background calculations \(XLS; 0.4MB\)](#)

Germany

German Toilet Organisation publishes educational material for hygiene awareness raising at schools – June 2009

The German Toilet Organization (GTO) invites schools and NGOs working at schools in developing countries to bring the "my school loo" project to life with their students. "My school loo" consists of educational materials, ranging from comics and puppet theatre to card games for hygiene awareness. Print files for all materials are available free of charge from GTO. The project is part of GTO's worldwide "Sanitation is Dignity" Campaign, made possible with the support of

Funding finally approved

The German ministry BMBF approved funding for a 6-partner research project (worth EUR 1.1 million) about ecosan in [GTZ House 1](#) in Eschborn, Germany.

Links

Suppliers of waterless urinals and urine-diversion toilets

A worldwide [list of suppliers](#) for waterless urinals and urine-diversion toilets is now available on the GTZ website ([further additions welcome](#)).

List of ecosan projects worldwide

We have added a [worldwide ecosan project list](#) to our website, containing brief information on 240 documented ecosan projects (please [send us](#) information on further projects).

New SuSanA resource DVD

The DVD is an offline version of the SuSanA website and is made as a product of the [working group on capacity development](#) especially for users with slow or without internet connection.

[Click here to order the DVD](#)

SuSanA website survey results

The SuSanA secretariat wishes to thank the 64 people who filled in its online survey about the SuSanA website – the [results](#) showed that a more dynamic and interactive website was requested by many.

New ecosan photos on Flickr

We continually upload ecosan related photos on Flickr (currently

[Website of My-School-Loo](#)

Burkina Faso and Bolivia

EcoSanres program launches two new knowledge nodes on sustainable sanitation – June 2009

A knowledge and expertise node is an organization or network of organizations that is taking a leading role in the promotion and development of sustainable sanitation in a specified region or country. During the first half of 2009 two additional knowledge nodes within the EcoSanres programme have been launched - in the end of April the Burkina Faso node and on 4 June the Bolivian knowledge node.

- [EcoSanres Knowledge nodes 2009](#)
 - Contact: [Elisabeth Kvarnström](#) (SEI, Sweden)
-

Niger

Productive Sanitation project in Aguié, Niger (IFAD, CREPA, SEI) – June 2009



In the province of Aguié in the South of Niger a “yellow revolution” is taking place. Participative tests in eight villages involving 700 households demonstrate the effects of using urine as fertilizer. After good results on different vegetables the demand is high for toilets and urinals that make the collection of the new fertilizers possible. The rainy season is now starting with further tests on

sorghum and millet. IFAD is the main donor of the project.

- [Productive Sanitation in Aguié, Niger \(1-page flyer\)](#)
 - [More information on the project](#)
-

China

Decentralised wastewater treatment system (DEWATS) and Sustainable Sanitation (SUSAN) - design workshop, Beijing – May 2009

This international training workshop was successfully held from 4 -15 May 2009, and was organized by the University of Science and Technology (USTB) and Center for Sustainable Environmental Sanitation (CSES) in Beijing. UNICEF-DPRK, ecosanres, GTZ-ecosan and CIM also gave their support. 17 participants from China, DPRK (North Korea), Nepal and Germany were trained on establishing knowledge transfer for design and implementation of “DEWATS – Sustainable Sanitation” between key stakeholders.

[DEWATS and SUSAN workshop report \(PDF: 0.5MB\)](#)

Philippines

The Sustainable Sanitation Knowledge Node for the Philippines is taking off! – May 2009

After a long scoping process in the Southeast Asian region in 2008 the EcoSanRes II program decided to concentrate their regional nodal activities in Southeast Asia on a national Philippine knowledge node that will be hosted by the Centre of Advanced Philippine Studies (CAPS) and is built on the already established Philippine Ecosan Network (PEN). A constituent workshop with national key players in the sector was held in May 2009 where national knowledge gaps were identified.

[Knowledge Node in Philippines, 1-page flyer \(PDF: 0.04MB\)](#)

1400 photos uploaded). See for example these three new sets for ecosan projects in [Uganda](#), [Ethiopia](#) and [Kenya](#).

Akvopedia resource by Akvo

[Akvpedia](#) is a water and sanitation resource to which everybody can contribute as it is set up in the same manner as 'Wikipedia'.

TIPS

Frequently Asked Questions

A list of [FAQs](#) about ecosan with short answers is now available on the GTZ website and is useful particularly for newcomers.

SuSanA Videos

The [new videos on sustainable sanitation](#) uploaded to the SuSanA website are proving popular by visitors to this site.

Presentations on GTZ ecosan website

We have uploaded recent selected [presentations](#) which the GTZ ecosan team gave at conferences (some also in [German](#)).

Upcoming events

14/07/2009 – 20/07/2009
[Rainwater harvesting from rock outcrops & water from dry riverbeds](#)
Kitui, Kenya

20/07/09 – 23/07/09
[Ecosys 2009](#)
International Symposium on Sustainable Ecosystems Harmonious Ecosystems for a Bright Future – Successful Pathways to Sustainability in Africa
Valley View University
Accra, Ghana

12/08/09 – 15/08/09
[3rd International Dry Toilet Conference](#)
Tampere, Finland

16/08/09 – 22/08/09
[Stockholm World Water Week](#)
Stockholm, Sweden

Philippines

Xavier University conducts Ecological Sanitation Short Course – May 2009

Xavier University (Mindanao, Philippines) recently conducted a 3-day Ecological Sanitation Short Course for public health workers, local government units (LGU), municipal planning and development coordinators, sanitary inspectors, civil society groups and the academia. An essential part of the course was the development of local action plans in order to identify locally applicable ways on how to integrate ecosan into the planning framework of the respective participating LGU's and into the curricula of the participating universities.

[Ecological Sanitation Short Course \(1-page course report\) \(PDF: 0.7MB\)](#)

Ethiopia

Successful 9th SuSanA meeting – May 2009



The 9th meeting of the Sustainable Sanitation Alliance ([SuSanA](#)) organized by the Ethiopian-WASH movement, WSP-Ethiopia and GTZ was held on 16-17 May in Addis Ababa, Ethiopia, just prior to the WEDC conference. The meeting was inaugurated by his Excellency, the Minister of Health of Ethiopia, Dr. Kebebe Wolku. It was attended by 95 Ethiopian and international participants from about 63 organisations (photo: Daudi Bikaba, Oxfam, presenting results of the

SuSanA working group 8 "sustainable sanitation in emergency and reconstruction situations").

[Extended minutes 9th SuSanA meeting \(including links to all presentations and photos\)](#)

Ethiopia

GTZ-IS builds urine diverting dry toilets at Adama University – May 2009

GTZ-International Services has begun construction of an architect-designed upmarket UDDT toilet block for 400 users at the Adama University on 18 May 2009 in Adama, Ethiopia. Start of operation is planned for October 2009. The objective of the UDDTs is to demonstrate a cost and resource reduced sanitation system that is suitable on institutional level, and requires no water for toilet flushing which is important in these water-scarce regions.

- [Poster at WEDC conference about Adama University UDDTs \(PDF: 2.8MB\)](#)
- [Detailed drawings for UDD toilet block at Adama University \(zip file: 3.4MB\)](#)
- [Bill of Quantity for UDDT toilet block at Adama University \(PDF: 0.1MB\)](#)
- [Presentation: planning process and capacity development \(PDF: 4.9MB\)](#)
- [Construction and Maintenance of the Demonstration Project \(PDF: 2.4MB\)](#)
- Pictorial user instructions for UDD toilets in English and Amharic: [Girls](#) & [Boys](#)

Ethiopia

Multi-storey condominium houses in Awassa with indoor UDDTs are now ready for tenants (GTZ PPP project) – May 2009

As part of a PPP project with several German partners (e.g. GTZ and Otterwasser) and several Ethiopian partners (e.g. Ministry of Works and Urban Development, Southern Housing Development Project Office Awassa, EthioFibre Glass) urine-diversion dehydration toilets with a novel box and chute system were installed in six apartments of one 3-storey condominium house in the city of Awassa. These new buildings are now finished but there is a delay in allocating tenants due to economic difficulties of the prospective tenants who

The 10th SuSanA meeting will be held in conjunction with this event.

01/09/09 – 03/09/09

[5th Specialised Membrane Technology Conference for Water and Wastewater Treatment](#)
Beijing, China

10/09/2009

[5th International BORDA "Basic Need Service" Workshop, "Expert Workshop: Improving Emergency Sanitation"](#)
Bremen, Germany

[DEWATS Emergency Sanitation Information \(PDF: 0.27MB\)](#)

06/10/2009 – 08/10/2009

[Tropentag 2009: Biophysical and Socio-economic Frame Conditions for the Sustainable Management of Natural Resources](#)
Hamburg, Germany

15/10/2009 – 16/10/2009

Philippine Sustainable Sanitation Symposium
Manila, Philippines

Contact person: [Robert Gensch](#)
(Xavier University / CIM)

17/10/2009 – 18/10/2009

[2009 Beijing International Environmental Technology Symposium](#)
Beijing, China

25/10/09 – 28/10/09

[Efficient2009: 5th IWA specialist conference on efficient use and management of urban water](#)
Sydney, Australia

28/10/09 – 30/10/09

[10th WaterNet/WARFSA/GWP-SA Symposium](#)
Entebbe, Uganda

03/11/2009 – 13/11/2009

[Regional course on sustainable sanitation \(in Spanish\), IV Curso Regional de Saneamiento Sostenible](#)
Tepoztlán, México

06/11/2009 – 09/11/2009

[Sustainable Water Infrastructure for Cities and Villages of the Future \(SWIF 2009\)](#)

have to pay to get into the houses.

- [Presentation at WEDC conference: Experience with UDDTs in condominium houses in Awassa \(PDF; 0.8MB\)](#)
- [Paper at WEDC conference: Experience with UDDTs in condominium houses in Awassa \(PDF; 1.8MB\)](#)
- [Flyer Ecological Sanitation Ethiopia: Introduction of ecological sanitation to large scale housing programmes \(PDF; 0.5MB\)](#)

Philippines

Sustainable Sanitation Education Programs for the Philippines (SuSEP) – March 2009

The World bank funded program 'Developing Sustainable Sanitation Education Programs in the Philippines (SuSEP)' that is currently implemented by the Centre of Advanced Philippine Studies (CAPS) aims to integrate sustainable sanitation into the countries' educational system, through development of education programs for sanitation professionals and practitioners.

[Research study on SuSEP \(1-page summary\) \(PDF; 0.14MB\)](#)

Australia

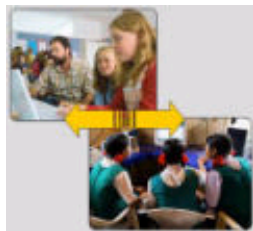
Urine-diversion trials in the states of Victoria and Queensland – Feb 2009

Ecosan trials are currently underway in two states of Australia: at Maryborough High School in Victoria and at Currumbin eco-settlement in Queensland. In the first location, urine-diversion dehydration toilets were tested at a high school (only partially successful), in a study led by engineering consultancy GHD (under the Smart Water Fund). In Currumbin eco-village, urine-diversion flush toilets (Swedish Gustavsberg toilets) are used at 16 households in the "Urine separation and reuse project" which is funded by the Queensland government.

- [Publication about UDDTs at Maryborough high school \(from Australian Water magazine, Vol 36, No 1\) \(PDF; 1.0MB\)](#)
 - [Urine separation and reuse project newsletter Currumbin eco-village \(PDF; 0.9MB\)](#)
 - [GHD composting toilets](#)
 - [Smart Water Fund](#)
-

Switzerland and India

Seecon and ESF conducted a virtual exchange programme on sustainable sanitation for school pupils – Jan. 2009



"We shall no longer remain silent on the issue of toilets" - This was the voice from the young ambassadors of ecosan! A first successful (virtual) exchange was conducted between students from the Abhinava Medium English High School in Pune, India and students from the Freies Gymnasium Bern in Switzerland, from November 2008 to January 2009. New student exchanges

will continue this year.

- [Flyer on Sustainable Sanitation Exchange \(PDF; 0.5MB\)](#)
 - [Sustainable Sanitation Exchange Program](#)
-

Burkina Faso

EU-funded project EcoSan-EU2

The second EU-funded West African ecosan project, called EcoSan-EU2, is now in its second implementation year, in which the construction of household UDDTs will be carried out in 30 villages with 5 UDDTs installed per village.

Contact: [Moussa Bonzi](#) (CREPA)

- [The action plan for the Year 2 \(in French\) \(PDF; 1.2MB\)](#)

Beijing, China

10/11/2009 – 13/11/2009

[3rd Decentralised Conference on Water and Wastewater International Network](#)

Durbar Marg, Kathmandu
Nepal

15/11/09 – 19/11/09

[Emerging solutions to water and sanitation challenges](#)

(International Water Association, IWA)
Mexico City, Mexico

17/11/2009– 19/11/2009

[The 5th International water technologies & Environmental Control Exhibition & the 2nd International Conference](#)

Tel Aviv, Israel

19/11/2009 – 21/11/2009

[ORBIT Special Conference Biomass and Organic Waste as Sustainable Resources](#)

Beijing, China

02/12/2009 – 04/12/2009

[World Toilet Summit and Exhibition - 'Creating the Blueprint for a Sustainable Sanitation Marketplace'](#)

Singapore

25/01/2010 – 29/01/2010

EASAN II
Philippines

Contact person: [Robert Gensch](#)
(Xavier University / CIM)

14/04/2010 – 16/04/2010

[The Sustainable City 2010 -Sixth International Conference on Urban Regeneration and Sustainability](#)

La Coruña, Spain

19/04/2010 – 22/04/2010

[IWA conference on Sustainable Solutions for Small Water and Wastewater Treatment Systems](#)

Girona, Spain

Jobs

GTZ uses e-recruiting and offers an [e-recruiting system](#).

- [Presentation of the project and its first results \(in French\) \(PDF: 10.1MB\)](#)
 - [A description of the project \(in French\) \(PDF: 0.3MB\)](#)
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Indonesia

Better sanitation for islamic boarding schools students in Java – Jan. 2009

The NGO CBTECH-LPTP successfully implemented in January 2009 two DEWATS projects in Islamic Boarding Schools in Java, one located in Purworejo (600 users) and one in Gunung Kidul (250 users). Both projects include the installation of toilets that are connected to a bio-digester for biogas generation. The biogas is used for gas stoves in the school kitchens and for water heaters in the new bathrooms. Health education was given to the users and training to the operators and community based organization who will operate and maintain the system.

- [LPTP-DEWATS project Gunungkidul \(PDF: 2.4MB\)](#)
 - [LPTP-DEWATS project Purworejo\(PDF: 2.4MB\)](#)
 - [BORDA –South East Asia](#)
-
-

Moldovia

Modern urine diverting dry toilets for public toilets and households in rural Moldovia – October 2008

Double vault urine diverting dry toilet facilities were constructed for a primary school by the Swiss Development Agency (SDC). The local WECF NGO partners WISDOM and Ecotox were responsible for the educational part of the project, and trained children and staff on how to use and maintain the toilet facility, and how to sanitise and reuse the toilet products.

- [SDC launches ecological sanitary facilities in Soltanesti](#)
 - [New waterless, hygienic and comfortable school toilets built in rural Moldova](#)
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USA and UK

The British Queen and Michelle Obama join the "grow your own" revolution

For the first time since the Second World War vegetables are being grown in the Palace's grounds in the UK and the White House lawns in the USA alongside ornamental plants. This may be the right moment for us to tell gardeners that they can not only grow their own vegetables but that they have their fertiliser (urine and faeces) right at home, too!

- [The Queen installs a vegetable patch at Buckingham Palace](#)
 - [Michelle Obama Launches First White House Vegetable Garden Since World War II](#)
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Publications

Philippines, DED and others

Newsletter water and solid waste of German development organisations

For many years, the German development cooperation organisations GTZ, DED, Inwent and CIM, have been active in the Philippines and have contributed to the development of different sectors. For the cluster water and waste, a quarterly newsletter is published wherein experiences are shared by both international and national experts. You can subscribe by sending a short message to [Jouke Boorsman](#) (DED).

DED Philippines website (<http://philippines.ded.de>), then click on forestry and environmental management

Germany, GTZ ecosan team

Technology review: urine diversion

This new publication by GTZ explains the purposes of urine diversion, its advantages and disadvantages, urine precipitation, urine treatment and reuse in agriculture. It provides an overview on design and operational aspects for equipment needed, such as waterless urinals and urine-diversion toilets including supplier information and indicative costs. The publication also provides design information for urine piping and storage tanks (including tank sizing, odour control and ventilation issues).

[Basic overview of urine diversion components \(waterless urinals, UD toilet bowls and pans, piping and storage\) \(PDF: 0.6MB\)](#)

The Netherlands, NWP and IRC **Smart Finance Solutions**



This publication is the result of collaboration between various organisations working in water and sanitation. The booklet gives examples of how various existing financial mechanisms and products are being used to finance water and sanitation projects and small local businesses, and gives a quick overview how to write a successful business plan (cost: EUR 15).

[Smart Finance Solutions](#)

WECF (Women in Europe for a Common Future) **Russian and Romanian WHO "Guidelines for the Safe use of Wastewater, Excreta and Greywater"**

WECF translated the summary of the WHO "Guidelines for the Safe use of Wastewater, Excreta and Greywater, Volume 4, Excreta and Greywater use in Agriculture" into Russian and Romanian language, as they have many ecosan projects in Eastern European countries.

[Russian and Romanian versions of the summary of WHO Guidelines](#)

Sustainable Sanitation Alliance **German Vision Document 1 of SuSanA**

The GTZ ecosan team together with other colleagues translated the SuSanA vision document into German ("Mehr Nachhaltigkeit bei Sanitärversorgungskonzepten") - after a lengthy debate on how to best translate the term "sanitation" in German.

[SuSanA vision document in German \(PDF: 0.6MB\)](#)

Sustainable Sanitation Alliance **New SuSanA case studies**

Six new case studies on sustainable sanitation projects were uploaded to the SuSanA website since April (and please do submit your own case studies, too):

- [Urine-diverting vacuum sanitation system Beijing, China \(PDF: 0.4MB\)](#)
- [Use of reclaimed wastewater in agriculture, Jordan Valley, Jordan \(PDF: 2.1MB\)](#)
- [Improvement of sanitation at Kanawat health center, Kanawat, Uganda \(PDF: 0.4MB\)](#)
- [Urine diversion dehydration toilets in school, Hayanist, Armenia PDF: 0.5MB\)](#)
- [Urine and brownwater separation at the GTZ main office building, Eschborn, Germany \(PDF: 0.5MB\)](#)

- [Urban urine diversion & greywater treatment system, Linz, Austria \(PDF; 0.8MB\)](#)

Uganda

Video: Sanitation for all (supported by GTZ Uganda)



This video was produced mainly to address landlords and tenants of an informal settlement in Uganda. It gives a picture of the sanitation situation there and offers one possibility to improve the living conditions. The production of the video was supported by the GTZ water program "Reform of the Urban Water and Sanitation Sector with collaboration of the Ugandan Ministry of

Water and Environment.

- [Part 1 of 2: Sanitation for all - Uganda](#)
- [Part 2 of 2: Sanitation for all - Uganda](#)

Ghana, Hohenheim University, Berger Biotechnik and VVU

Nutshell Guidelines about urine reuse

Based on the results of field research and experience gathered by implementing ecosan systems at Valley View University (VVU) in Accra, Ghana, nutshell guidelines have been developed jointly by the University of Hohenheim, Berger Biotechnik and VVU. These 2-page guidelines focus on the operators and users of the different installations, to improve acceptance, maintenance and safety.

- [Nutshell guideline 1: Small scale composting of human faeces \(PDF; 0.5MB\)](#)
- [Nutshell guideline 2: Fertilization with human urine \(PDF; 0.5\)](#)
- [Nutshell guideline 3: Maintenance of public urine diverting toilets \(PDF; 0.5MB\)](#)
- [Further publications on RESPTA project website](#)

Kyrgyzstan, WECF (Women in Europe for a Common Future)

Introducing Sustainable Sanitation in Kyrgyzstan: An analysis of success factors and barriers

The people in rural Kyrgyzstan are confronted with health problems linked to the current sanitation system which consists of pit latrines and untreated discharge of wastewater. This analysis by WECF presents key success factors and barriers for the implementation of Urine Diverting Dry Toilets and greywater filters by assessing a project where 16 UDD toilets and 2 greywater filters were built and monitored together with local NGOs.

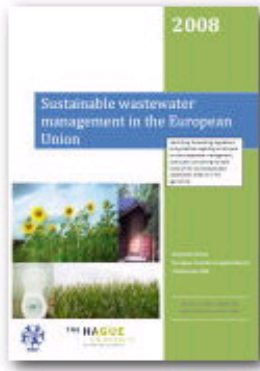
[Introducing Sustainable Sanitation in Kyrgyzstan Case Study: An analysis of success factors and barriers \(PDF; 3.6MB\)](#)

WECF (Women in Europe for a Common Future)

Safe and profitable toilets – a solution for health and wealth (manual in Russian and English)

WECF explains in this manual in both Russian and English how safe toilets not only save you money but that sanitation and health are closely related. Principles of the construction of urine diverting dry toilets are explained with many drawings. The manual is in particular developed for households in rural areas.

[WECF manual in Russian and English "Safe and profitable toilets - a solution for health and wealth"](#)



This thesis by Sanna-Mari Kuisma examined the existing regulations concerning small-scale on-site wastewater management in the European Union (EU), and particularly regarding the safe reuse of the source separated wastewater streams in the agriculture. The findings of this study show that "currently sustainable sanitation is not fully possible in the EU, and in order to allow this, the EU has to modify its legislation in the future."

[Sustainable wastewater management in the European Union \(2008\) \(PDF; 0.5MB\)](#)

USA, USAID Sanitation Working Group **Sanitation Bibliography**

Of the hundreds of references and links to information on sanitation in developing countries, the 12 in this list serve as appropriate information sources for development professionals who have limited background in sanitation programming and provide links to more in-depth information on various subtopics.

[Sanitation Bibliography \(PDF; 0.1MB\)](#)

UK, Institute of Development Studies (IDS) Practice Paper **Going to Scale with Community-Led Total Sanitation: Reflections on Experience, Issues and Ways Forward**

In his new publication on up-scaling "Community led total sanitation" (CLTS) Robert Chambers underlines: "Synergies should be strong with approaches (sometimes described as ecological) in which faeces have economic value. The Arborloo is one straightforward example. There are several other approaches for ecosan. With all approaches, there are issues of sequence. CLTS can provide a powerful entry point."

[Going to Scale with Community-Led Total Sanitation](#)

5th World Water Forum Istanbul **Sanitation: A continuous challenge for the European Region**

While the majority of Europeans have access to sanitation and properly functioning wastewater treatment, there are still many who remain unserved by improved systems, particularly in Eastern Europe, the Caucasus and South Eastern Europe. This chapter is part of the European Document which was developed within the European Regional Process of the 5th World Water Forum 2009.

[Sanitation: A continuous challenge for the European Region \(PDF; 0.6MB\)](#)

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