

Catalogue of IDEAs

In utilizing the

SHORT-TERM TECHNICAL ASSISTANCE (STTA)
under the umbrella of
URBAN ENVIRONMENTAL MANAGEMENT
PROGRAMME (UEMP)

**This document is
a description of 24 ideas and proposals
for short term technical assistance
which may improve the level of service and the joy of work performance
amongst the 10 partner administrations of the
URBAN ENVIRONMENT MANAGEMENT PROGRAMME**

Ideas currently discussed or worked on by partners have been adopted in this overview.

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A catalogue of IDEAs

The Short Term Technical Assistance (STTA) facility of the Urban Environment Management Programme is a short cut to procurement of technical expertise in portions of 1-30 days. The facility is available to all partners of the programme.

Through this facility you can easily procure the technical experts from all over the World or from South Africa. *The programme will pay your consultant, and also do the technical procurement and logistics.*

How you access the funds is described in the *Manual for the STTA*, available at the UEM Secretariat in DEAT (ble@deat.gov.za)

This document aims to present ideas for STTA projects, *already in implementation or discussed* between partners and between the partners and the PSC Secretariat. The purpose is to assist and inspire you as a partner, showing you

- what is in the implementation pipeline
- other examples of what may be achieved
- contacts to colleagues working in the same field

The wishes and ideas presented derive from you or your colleagues. All examples should have the potential of being developed into assignments eligible for funding by the STTA-facility. The decision to support a particular idea and procure a qualified expert to assist you will depend on the specific development of the idea and on available funding, as described in the manual.

The document is public.

You are welcome to submit ideas for future editions. **You are - always - welcome to contact the PSC Secretariat to discuss your particular wish or idea.** Contact details on the last page.

1. IDEAs in execution

As yet – end of October 2006 – no projects have reached this stage. But projects are about to move from “pipeline” to “execution”.

2. IDEAs in the pipeline

The following five (5) ideas are filed as proposals in UEM-Secretariat under the ref. numbers shown here. All are expected to materialized, starting in the upcoming months by the successful procurement of an appropriate expert.

M-2006-1 eThekwini. Scheme for monitoring and regulation of flaring

Problem: Flaring from oil refineries releases ambient air pollution and is the object of great concern and worry and complaints from citizens. International schemes (methodologies + standards) exist which may provide more secure knowledge on the actual exhausts and how to regulate them.

Solution: The solution is to transfer these international schemes to SA schemes, to be used for future monitoring and regulation of refinery flares in eThekwini and the rest of SA. The output

aimed for is a technical and regulatory scheme for this in international standard. From a technical viewpoint it shall be directly implementable.

Contact person: Siva Chetty, eThekwini, 031 311 3690 chettysiva@durban.gov.za

M-2006-2 eThekwini. Catalogue for Renewable Energy development

Problem: While national surveys and strategies exist for development of RE, and while eThekwini is in the process of developing an energy strategy, there is no technical assessment in place for which RE sources should be supported in eThekwini, and how to do this.

Solution: To provide a catalogue of RE solutions, which have a potential in the short and the long run in eThekwini along with proposed prescriptions on the steps to take each of these forward. The output aimed for is this catalogue, tailored for eThekwini.

Contact person: Jessica Rich, 031 311 7697, richj@durban.gov.za,

M 2006-3 Ekurhuleni. Alignment of city's procurements with LA-21

Problem: The municipality is a grand customer on the market procuring substantial amounts of goods and services from South African furnishers. Procurement procedures and guidelines are in place but although the city is in support of LA21, the Millennium Declaration etc. the city's guidelines for procurement are as yet not aligned with the principles of LA21.

Solution: The assignment wanted is an analysis of the procurement guidelines and a catalogue with prioritised proposals to improvements of the city administrations guidelines in this respect.

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N-2006-1 DEAT Industrial process engineer
N-2006-2 DEAT Toxicologist and Epidemiologist
(Two projects)

Problem: Gaps in knowledge and capacity in each of these two fields, in which new legislation and regulation will be crucial in the future

Solution: The solution provided by these *two* assignments is a capacity transfer from the international community of expertise into permanent advisor positions in the hosting institution. Plans and budgets in place for a permanent technical advisor position in each of the fields. The knowledge transfer from abroad will come through by the foreign technical assistance in three sub tasks:

- Definition of the permanent position in DEAT
- Selection of the best qualified candidate
- Introduction and "mentorship" to the candidate in the first period of employment.

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3. IDEAs under consideration

The following are proposals and ideas, which are currently discussed between partners or between partners and the PSC Secretariat. All of these are subject to further elaboration.

The ideas are presented under the headlines of the 5 themes of the programme: Air, Energy, Environmental Health, Planning and Waste. But many ideas relate to several themes. Under each theme they appear in accidental order.

Contact persons are included. In many cases several partners have indicated interest in the same proposals and are shown as contact persons. But the facility has room for more, as general applicability and collaboration are values supported by the programme. Interested colleagues and others may make contact. If successful keep the secretariat posted on the progress of your plans.

1 Proposals – Air (and Health)

1 Coordination of the statistics for Air Quality and Health.

**Cape Town,
eThekweni
Johannesburg**

All 3 cities have conveyed this wish.

Problem: In the cities, there is statistics on air quality. There is also statistics on health issues which are known be influenced by air pollution, ranging from ordinary flews over asthma to cancer. However: These statistics are not integrated in such a way that they support each other and currently decisions on air pollution are not informed by the statistical info on health. In addition there are gabs in both types of statistics.

Solution: The (first step of a) solution is a survey of statistical data available on this, a list of gabs and a prioritised list of actions to be taken to bring this interaction of the two statistical areas in place. The assessment should include a complete solution, i. a. a roadmap to a state in which we will have reliable integrated statistics. The idea should be coordinated with parallel pursuits of the National Environmental Health Indicator Task Team (NEHITT).

Contact persons:

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2 Proposals – Energy

1 Environmental price scheme for electricity.

Cape Town,

Problem: The shortage and power breaks of CT and other major cities are well known. One contribution to the alleviation of the situation is payment schemes, which promote saving of electrical power in a number of ways. Abroad, schemes are in place by which (in short) the richer

consumers pay extra if they consume "too much" electricity, and this extra money is recycled into programmes supporting energy-saving initiatives such as energy-saving light bulbs, and other low-energy electrical devices, primarily in the poor communities. Such schemes need to be designed on the basis of the local situation (of supply chains and demands etc.). When successfully implemented the total is less energy used, and the scheme has positive cultural / educational aspects.

Solution: The first step is to set up the scheme with the pertinent factors, prices etc. for CT.

Contact person:

Osman Asmal Osman.Asmal@capetown.gov.za 021 487 2200

2 Sustainable use of Energy – plan

Western Cape

Kwa-Zulu-Natal (?)

Problem: The regions must deal with energy shortage and power breaks, when supply does not cover the demand. To help cope with this shortage the interest is a campaign for wiser use of energy.

Solution: Among many themes to be considered / included are:

- Supply: Promotion of cheaper sources of solar panels – SA cities can use the roofs
- Saving: Regulation of the establishment of power-gulping developments such as smelters through the Environmental Impact Assessment.
- Both: Review the tariff in a way that you start paying double or triple per unit after exceeding certain allocated number of units in a month and tax concession for using energy-reduction devices. (see the above)

Contact persons

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3 Proposals – Environmental Health

1 EH training programmes

CT

Ekurhuleni

Johannesburg

eThekweni

Sedibeng

Environmental Health departments are currently being restructured in several local governments and there is a need for training programmes which put new administrations on the same level. The first step could be a catalogue of training programmes, with a description of each of these programmes, objectives, target groups, knowledge and skills to be achieved etc.

Contact persons:

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2 Service to informal settlements – package

Cape Town

Problem: As part of the UEM-2006 activities the City of CT has launched and tested a package of undertakings called SIS, Servicing Informal Settlements. The purpose of the package is to empower the communities. No evaluation or standardization efforts has been made to derive the lessons learned.

Solution: The wishes are to

- Make a cross-cutting evaluation of the elements of the package
- Standardize the good elements in a manual
- Reinforce these with community workers.

Contact persons

Jacobus Schippers Jacobus.Schippers@capetown.gov.za 084 300 0258

4 Proposals – Planning

1 Action plan for sustainable human settlement

Ekurhuleni

Problem: Housing programmes are vital to the alleviation of poverty. However at many places the number of houses is prioritized way above the environmental qualities of the settlements created in the programmes. There is a need for a guideline or a checklist to ensure environmental qualities in the new or the re-organized settlements.

Solution: Based on a policy of the city Council an action plan should be produced, which informs the housing department and the city administration as a whole on sustainable development actions, such as densification, open spaces with a potential for nature - oriented living, water supply and waste water, integrated waste management, etc.

Contact persons

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2 Legal survey, Integrated Planning in local government.

Cape Town

Problem: Local government does not have a comprehensive catalogue of competencies with regard to Integrated Environmental Planning.

Solution: A catalogue of competencies which are

- Solely with the City administrations

- Shared between city and province
- Shared between City, province and other

Contact person

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3 Positive interaction, informal settlements and nature reserves.

Sedibeng

Problem: An informal settlement and a nature reserve are neighbours. This neighbourship is currently a strain to the nature reserve and in the current situation the citizens of the informal settlement do not get any legal benefits from the nature reserve. Other places such neighbourships are integrated through planning and great efforts, leading to employment and the citizens generating income from the nature reserve while at the same time strains on the reserve are reduced.

Solution: The first step to a solution in the current situation is a catalogue of ways forward, to be set up by an expert in the field.

Contact

Lizette Venter LizetteV@sedibeng.gov.za 016 427 1015

4 Re-establishment of Environmental Dialogue-Forum

Sedibeng

Problem: There is a wish and a need for a formal body, not run or managed by the authorities, but of the stakeholders from various parts of the district municipality. Such structures operated in other countries, i. e. by convening 3 times a year to discuss problems and ways forward in the joint solutions of environmental challenges of society. A preliminary assembly was formed and worked in Sedibeng until 3 years ago, when lack of resources and perhaps lack of a long term agenda took the energy out of this once productive dialogue.

Solution: The wish is an analysis of the interests and in positive a strategic plan for the re-establishment of this stakeholder-assembly, which should convene i. e. 3 times a year.

Contact person

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5 Monitoring system for informal settlements

**Cape Town
Western Cape**

Problem: The province is concerned about the monitoring and servicing of informal settlements. As part of its UEM-2006 activities the city of CT will develop a system for the continuous monitoring of informal settlement. The system is IT based and will provide a common reference for all administrations of the city (including housing, health departments, social departments city police, etc.) of info related to the informal settlements.

Solution: The core system is established but several specific problems need to be solved, using ex. Short term assignments. Among these are

- Technical improvements of the systems to handle more types of data – ex. health, accidents
- Instruction, capacity building of the use of the system to mainstream it into departments

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6 Overview and action plan for informal Settlements on flood plains

Western Cape

Problem: The problems of informal settlement on flood plains is a special priority, due to the floods which reoccur. There is no comprehensive plan for the management of relocation/ safe-making of settlements and this calls for an analysis and prioritisation of the community actions on this issue.

Solution: An action plan for the re-housing and other measures to be directed towards informal settlements in the flood plains.

Contact person

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7 Urban growth monitoring - integrate with other cities

Western Cape

Cape Town

Problem: The province of is concerned about the planning of (formal) settlements industrial areas etc. General guidelines for the province have been captured in the spatial development framework for WC. As part of the UEM-2006 activities the city of CT will develop a comprehensive guideline and toolkit for decisions on major development in and around the city. The kit will ensure that all relevant matters can be considered prior to decisions on major developments.

Solution: Other cities have similar procedures and guidelines and the wishes are

- To formalize or at least integrate the CT model with those of some other cities
- To formalize or integrate a partnership of the system with UCT

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8 Eco-improvements to city's guidelines for procurement

Cape Town

Gauteng Province

Problem: The city of Cape Town has substantial budgets and guidelines for procurement. Till date there has not been made an ecological audit of these guidelines. The guidelines are there.

Solution: The wish is to have an expert review them and set up a catalogue of prioritized improvements and other actions in relation to these guidelines, with the objective that the city's budget support sustainable development better.

Contact person

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9 Master plan for provision of SDF after WC model

Kwa Zulu Natal Province

Problem: There is no comprehensive spatial development framework in place for KZN – unlike that of WC. A spatial development framework will to a large extent provide clarity of development goals to all stakeholders and save much work in the administrations. In WC the process of the spatial framework took more than two years (and many person-years).

Solution: The wish is to set up a master plan for the process, using the experience from WC, adapting it to KZN. This process master plan will include a number of actors and stakeholders within the KZN administrations other spheres of governments and in society.

Contact Persons

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10 Catalogue of open spaces in the City - verification

Johannesburg

Problem: The City of Johannesburg has a strategy for open spaces, the JMOSS. It includes a registration of potential areas of interest + a proposal for which areas should be kept open for future generations. But the strategy is not verified on the ground or in the judicial papers. It is not certain that the open spaces are actually there (physically) or whether the City can actually keep it open (judicially etc.).

Solution: The wish is to have the JMOSS verified on the ground and in the files, in order to have this platform for a final political endorsement and administration for the future.

Contact Persons

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5 Proposals – Waste

1 (National) Waste Monitoring system

KwaZulu-Natal Province

Problem: The Polokwane Declaration of 2001 requires that SA reduce waste generation and disposal by 50% and 25% respectively by 2012 and develop a plan for ZERO WASTE by 2022.

Thus the need to develop a national indicator or a methodology to monitor progress in waste generation and proportion recycled.

Solution: The indicator should be supported and used by all actors in the field, to ensure consistency and uniformity. Methodology can be scoped at international arena, and the assignment should be to transform and implement in SA.

Contact Persons

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2 Catalogue of alternative solutions for waste

Johannesburg

Problem: While national surveys and strategies exist for waste solutions and while Johannesburg is in the process of developing an waste strategies, there is no technical assessment for alternative solutions to this.

Solution: To provide a catalogue of RE solutions, which have a potential in the short and the long run in the particular cities and the proposed steps to take each of these forward.

Contact person

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3 River clean up

Johannesburg

Western Cape

Problem: Both cities call for action plans which will improve the situation of rivers being flooded (!) with solid waste. (Fluent waste and nutrients also cause problems but these issues are not targeted in this idea.)

Solution: Action plans

Contact person

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4 Incineration of Waste

DEAT-Waste

Problems: SAs waste can neither in the short run nor in the long run be disposed as attempted today – by using deposits. Other methodologies must be considered.

Solution: In other countries incineration of waste – with proper air pollution management and with proper management of the ashes etc. – is one of the solutions which greatly reduces the demands of volume for deposits. At the same time energy is gained by the incineration. A number of technical issues need to be further clarified in order that SA can assess in which ways and to what degree incineration will be part of the solution, also to SA.

Contact person

Zanele Mvusi

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