



Newsletter 8

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Botswana National Atlas hot off the press



Sture Petterson handing over the first copy of the National Atlas to Bryson Morebodi of DSM (Department of Surveying and Mapping).



The first national atlas of Botswana has been launched.

A real masterpiece of 416 pages in a format resembling A3 containing 700 photos in four colours and 500 diagrams and tables. This edition printed in 5000 copies.

The atlas is comprised of facts about everything from the country's geological structure, road network and trade ties to estimated lion populations within the country's borders.

Department of Surveys and Mapping (DSM) ran the project with the Director, Mr B.B.H. Morebodi as Project Manager. An Editorial Board has been responsible for the contents while the staff at DSM carried out most of the work with maps, charts, tables, images and layout. Sida partially financed the training and general support which was provided by Swedesurvey.

The thematic maps were created in ArcView and a digital version of the atlas will be ready in March 2002. Swedesurvey in Kiruna developed the application in close co-operation with DSM. The experience and knowledge gained from the work with the Swedish National Atlas and PC-Atlas was used.

ArkPressen in Västerås using a digital flow "computer-to-plate" technology did the printing in Sweden. The Department of Surveys and Mapping delivered digital PageMaker files to ArkPressen containing text, maps, charts, tables and images. Proofs were produced for approval before printing. The printing was supervised by a delegation from Botswana and Swedesurvey was responsible for quality control of pre-press and printing.

Anders Hedin
Project Manager



Swedesurvey during 2001

For Swedesurvey 2001 was yet another good year. Our business activities saw a positive development and a continued strong demand for the company's services and products. The situation regarding incoming orders is most satisfactory. Twenty-five new contracts worth approximately SEK 100 million were signed during the first 10 months of the year bringing the net value of orders in hand for the company to approximately SEK 140 million. Nearly 70 per cent of the new contracts are for consulting services within institutional development and 30 per cent for production of land and geographic information on repayment basis.

During 2001 Swedesurvey's activities have embraced some 80 projects in more than 30 countries and engaged more than 300 individual consultants and experts. As in previous years Europe, including the Commonwealth of Inde-

pendent States, continues to be a dominating market for Swedesurvey. The co-operation with particularly Russia is comprehensive and contains a wide and varying consultant support in land information systems. The mapping activities within the Greek National Cadastre have continued over the year based on a new contract and a World Bank financed project within real property valuation and taxation has been started in Slovenia.

Swedesurvey's other activities have mainly focused on Southern Africa, Central America and South East Asia. We are very pleased with the development of the co-operation in Botswana, where Swedesurvey during 2001 has been awarded three contracts within mapping and geographic information systems. Other positive trends are that the co-operation with China and Guatemala has been resumed after a few years break. The co-operation with China aims at building a multi-purpose cadastre system for 3 cities in Hebei Province while the co-operation with Guatemala aims at supporting the land reform programme.

For the years to come production of geographic information is expected to play an increasingly important role for the company. To promote this development Swedesurvey has, during 2001, established a joint venture company in Athens as well as opened a branch office in Helsinki.

Finally, I would like to express, on behalf of Swedesurvey, my thanks for the excellent co-operation we have had during 2001 and to wish you all a Merry Christmas and a prosperous 2002.

Sture Pettersson
Managing Director

Botswana Geospatial Data Infrastructure making great progress

The Botswana Government is intent on improving the conditions for the use of GIS within the departments and elsewhere in the society. Swedesurvey has won three major contracts which all are key cornerstones in the work to further develop the Botswana Geospatial Data Infrastructure.

Swedesurvey has been awarded three contracts in Botswana in the frame of Botswana Geospatial Data Infrastructure. One contract with the GIS co-ordination unit Government Computer Bureau, BCB, within the government and two contracts with the Department of Survey and Mapping.

The main objective for the contract with BCB is to create a master plan for the implementation of a GIS strategy within the departments. In order to create a more efficient handling of geographic information in Botswana the national geographic data infrastructure will be further developed. This infrastructure encompasses legislation and policies, organisational remits, geographic data resources, technologies, standards, delivery mechanisms and financial and human resources. An important tool in this work will be to seek involvement and support of decision-makers at the highest levels of business, government, and academia and to generate support to the local and regional levels.

The contracts with the Department of Survey and Mapping, DSM, comprises a great extent of data cap-



Swedesurvey AB is a Swedish state owned company which has access to all the resources of the National Land Survey of Sweden.

Land information and cadastral systems, surveying and mapping including training, method development, consultancy and direct technical assignments are all part of the work of Swedesurvey.

Swedesurvey is active in more than 30 countries in East and Central Europe, Asia, Africa, the Middle East and South America.

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Geospatial structure at progress

ture and capacity building in data base management. The contracts were signed in June 2001 and the implementation started at the end of July. The duration of the projects will be three years.

A new digital national base map will be established. Measurements for a new Zero - order network were carried out during July 2001 by DSM with support from Swedesurvey. The final calculation has been done in Sweden with the Bernese software. The new national base map will be based on the new reference system. Aerial photography and orthophoto mapping of the entire country will be carried out. The negative scale is 1:80 000 and black & white film is used. The photography commenced in September and by the end of October 30% of the country had been covered.

In addition to the black & white photography colour photography on lower altitudes - 1000 to 1500 metres will be carried out for urban areas. The orthophoto production and data capture from these images will be carried out as a joint venture between DSM and Swedesurvey.

A web solution will be developed where a seamless orthophoto coverage of Botswana in it's entirety will be possible to access. This application will be based on web browser Geo-Imager, which is also used to display and distribute orthophotos in Sweden by Lantmäteriet (lantmateriet.com)

Anders Hedin
Project Manager

Delegation of Russian Ministers in Sweden



Mr Thomas Bodström, Minister of Justice, flanked by Mr Sergej Sai, (left), Head of Roszemcadastre, First Deputy Minister and Head of Delegation and Mr Nikolai Sadchikov (right), Ambassador of Russia to Sweden.

In November, a delegation of Ministers from Russia paid a one week visit to Sweden. Discussions were held on the prerequisites for a well-functioning market economy based on a sound land administration infrastructure. Talks were also held on the public benefits of having a relevant and reliable land information system in place. The content of the programme was made in complete accordance with planned future activities within the Russian-Swedish Cadastre Project to which Swedesurvey has been providing advisory services since 1992.

The delegation was headed by Mr Serguei Sai, First Deputy Minister and Head of the Federal Service for Land Cadastre. The other delegates included Deputy Ministers from the Russian Federal Ministries of Justice, Agriculture, Property Relations and Taxes and Fees as well as the Deputy Chairman of the State Committee for Statistics.

The delegation first visited Stockholm for two days; Mr Joakim Ollén, Director General of Lantmäteriet, held an introduction

about the Swedish land administration infrastructure. The delegation also visited several Ministries, a bank, a construction company, Statistics Sweden and the Russian Embassy where the Ambassador, Mr Nikolaj Sadchikov invited to afternoon tea. The delegation travelled by high speed train to Malmö in where they met several actors in the land market sector. The entire visit was very much appreciated by all the delegates and ended with a meeting with the Mayor of Copenhagen, Denmark.

Gradual progress is being made in the development of the land sector in Russia. The Duma and the President recently approved the new federal Land Code which initially allows for transactions, even by foreigners, of two percent of the Russian territory (almost comparable to the size of Sweden). A reorganisation of the governmental organisations handling the different registers of ownership rights and cadaster is expected in the near future and will lead to efficiency of information exchange and improved customer services.

SUCCESSFUL START for the Tbilisi Land Management Training Centre



The Director General of Sida, Mr Bo Göransson, handing over the emblem of the training centre to Mr Zurab Gegeckori, Chairman of SDLM, and Mr Givi Kekelidze, Chairman of SDGC, at the opening ceremony, April 2001.

Since mid-2000, Swedesurvey has been supporting the State Department of Land Management (SDLM) and the State Department of Geodesy and Cartography (SDGC), Georgia, in the establishment of a Land Management Training Centre in Tbilisi. The Training Centre has already got a good reputation and the main reasons for this are threefold:

- I The Georgian Project Manager, Mr George Gotsiridze, has full insight into all activities within the land management sector in Georgia, excellent relations with the Technical University and very dedicated to his work, knowing that human resource development is a prerequisite for the survival of "new ideas" in the long term;
- II The five trainers are all young academics with western experience and a strong commitment;
- III The advisory services and training of trainers are carried out by Swedish and Lithuanian experts, working together. This has been well received by the participants because it provides

an opportunity to compare different approaches to methodologies, technologies, organisational structures, management etc. The well-developed Lithuanian land management concept is also easy for Georgians to relate to since it is based on similar historical and traditional origins. This successful concept is now also being introduced in projects in other former Soviet Union Republics.

The five trainers are specialised in registration, legislation, valuation/taxation, cadastral survey and GIS/mapping, respectively. The training centre has a computer room with modern equipment as well as an auditorium. The trainers are currently carrying out a Mobile Training Campaign where the trainer-team visits branch offices of the SDLM to provide on-site training. In addition, office management is being developed and the incorporation of World Bank financed training modules is being prepared.

Fredrik Zetterquist
Area Manager
Swedesurvey



Swedesurvey and Metria representatives together with the new Finnish colleagues at the opening.

NEW Swedesurvey branch office IN FINLAND

On 29th August, 2001 Swedesurvey and Metria opened a branch office in Espoo, just outside Helsinki. It is manned by five Finnish employees who will work mainly with marketing and sales but also with the production of internet maps for the Finnish market.

Swedesurvey has previously carried out a number of aerial photography and orthophoto assignments in Finland and will now be in a position to offer a wider range of products and services.

Joakim Ollén, the Director General of Lantmäteriet, the National Land Survey of Sweden, says that this is a positive indication of Nordic co-operation. Stig Jönsson, Head of Metria, added that the Finnish market is of great interest to us and we are delighted to be able to offer GIS and satellite services.

Sture Pettersson, the Managing Director of Swedesurvey, says that the opportunities are particularly good for developing and selling Geographical Information Systems. We are especially interested in the possibility of developing different products and systems for particular business sectors such as forestry, telecom and energy as well as for the public sector.

Successful co-operation with HBSM, China

In 1995 the Hebei Bureau of Surveying and Mapping, together with Swedesurvey carried out a project in the province of Hebei in the Peoples Republic of China. The purpose of this project was to establish a Multi-Purpose Cadastral Information System in Hebei province. Our Chinese counterparts were responsible for programming, field survey, data capture, maps and databases while Swedesurvey carried out the transfer of technology, system development and training components of the project. The project was developed in the province capital, Shijiazhuang and a pilot system was implemented in a test area in Xinji City.

The Hebei Government and Sida financed the project, which was successfully completed in 1998.

Between 1998 and 2000 discussions were held and studies were carried out between Swedesurvey and HBSM to find ways to continue the successful co-operation and in June 2001 a contract was signed for a new, extended project.

The new project will establish an Urban Management Geographic Information System (UMGIS) in



Photo: Ingmar Westgårds

three cities, Baoding, Handan, and Qinhuangdao and is planned for three years.

The Hebei Government and Sida will finance the project and the main objective is to provide the land administration and the land planning offices with reliable and up-dated basic geo-positioned



information for land and urban management in their daily work using GIS based software.

About 15 Swedish experts will be involved in the project and the budget

for the Swedish consultancy, fees and reimbursable, is close to 9 MSEK, this includes study visits and the training programmes for our Chinese counterparts.

Leif Eliasson
Project Manager



From left to right Tommy Österberg, George Stergiopoulos, Irene Tsitoura, Stavros Tzioufas, Joakim Ollén and Sture Pettersson

Swedesurvey Hellas SA established in Greece

Swedesurvey AB has, together with Greek businessmen, established a company in Athens, Swedesurvey Hellas AB. The aim of the company is to offer services to the Greek market for example the Greek Cadastre Project as well as other fields of activities such as Geographic Information System (GIS) for different applications such as road administration, telecommunication, forest management, energy and public utilities in general.

Joakim Ollén is the Chairman of the board for Swedesurvey Hellas SA and Tommy Österberg, Swedesurvey's Technical Director is the joint Managing Director together with Stavros Tzioufas of Greece.

The first Board meeting of Swedesurvey Hellas SA was held in Athens in October.

Swedesurvey in the Kyrgyz Republic



The project group for the Sida-financed project in the Republic of Kyrgyz. From the left Meerim Sarybaeva, Ulf Bjälkefors, Zamira Diusupova, Lennart Frej, Elvira Tenigbaeva, Edwin Hyde, Nurkul Chimkanaev and Staffan Noréus.

In August 2000, Swedesurvey signed a two-year contract with the State Agency on Registration of Rights to Immovable Property in the Kyrgyz Republic, GosRegister.

This project is another example of where Sida has stepped in to finance Technical Assistance as bilateral aid in a World Bank project.

Swedesurvey's project leader, Edwin Hyde, is stationed in Bishkek on a full time basis.

The project aims at establishing local registration offices, developing the legal and technical framework for the registration system for immovable property, supporting the development of the real estate market and transferring know-how through study tours, seminars and workshops. Co-ordination with other donor projects is very much in the foreground.

The Kyrgyz Republic is one of the states in CIS that has already taken the important step of merging the former Bureau of Tech-

nical Inventory, BTI, with the offices registering ownership to land. This merger has been very successful and we are now in the process of establishing 50 local registration offices. It is planned to complete this task by the end of this year.

The Swedish team has so far consisted of Edwin Hyde, Ulf Bjälkefors, senior systems analyst, Håkan Faxälv, valuation/real property taxation adviser, Lennart Frej, real estate market development adviser, and Staffan Noréus, legal adviser.

A law on registration of immovable property was adopted in 1998. Amendments were passed this year. The law is an important step towards a free real property market. Other legal acts in the pipeline are laws on valuation and changes to the law concerning real estate brokers.

The land and real estate market development component aims at introducing market value based valuation methods, taxation of

immovable real property and establishing procedures that can efficiently service the real estate credit market, when it emerges.

The system development component aims at preparing ground for a future LIS. However, today the main task is to develop efficient data acquisition methods. Also, before an LIS can be established a lot of work still remains on standardization of data and deciding the business areas of the different organizations that are to provide the data.

Sida has also agreed to finance a bilateral assistant expert on a full time basis. Her name is Elisabeth Lundgren (see photo above) and she commenced her assignment in mid November and will mainly work in the field of GIS.

A two-day seminar on women's access to land is also planned to be held in Bishkek next year.

Lennart Frej
Project Manager



Project for valuation and taxation in Slovenia on the right track

Standing from left Ann Myles, (Team Leader), Neva Zibrik (Project Manager), Knut Mattsson (Valuation Expert) and Igor Bevc (assisting Project Manager)

After some initial delays the project started in April this year. The consultants Swedesurvey, together with Slovene partners IGEA and LUZ, were then faced with the request to carry out system development for property valuation and taxation in a very short time. The government wanted a general assessment and taxation of all properties to take place already in 2003.

The team elaborated a possible plan to comply with the request, and started the building of valuation models on the basis of information from the real estate market. It was soon realized, however, that Slovene government institutions would not be able to provide the necessary legal instruments and organization for

the implementation of a new taxation system so soon. Furthermore, it would not be possible to collect data on properties necessary for valuation, within the required timeframe.

The project is now "back on track", i.e. a more reasonable development period has been allotted. Assessment of properties is planned for 2004, and the first taxation according to the new system is planned for 2005. Developments are going ahead and preliminary results will be tested in pilot areas during 2002.

Ann Myles
Ljubljana

Training programme for Russian experts



In October, a Russian delegation of twelve land surveyors and lawyers participated in a training programme in Sweden, organised by Swedesurvey and financed by the World Bank. The training focused on real property legislation and techniques for realisation of land reform in agriculture.

Major Land Consolidation projects for land reforms in Sweden have been and are still carried out in Dalarna region, where the main part of the training was also located. Mr Mats Backman, experienced land surveyor and expert in land consolidation issues, provided

an intensive training programme containing legislative measures, the role of appropriate land agencies in implementation of land reform, organisational matters and financing of procedures for land reform programmes. Study visits were also made to the organisations involved including the Swedish National Board of Agriculture and farmers, who are participating in land consolidation projects for arable land.

The Russian Government owns forest land while agricultural land partly is acquired by private persons through gigantic Land

Reforms. Former kolkhoz workers have a possibility to acquire a share of the arable land that previously belonged to the kolkhoz and obtain private ownership. The participants of the training programme considered their gain of Swedish Land Reform experience in agriculture being of major importance in their strive for an improved land allotment and infrastructure within the rural areas of the territory of Russia.

Asta Zetterquist
Land Surveyor



Season's Greetings

Photo: Ulf Olsson

Staff News



Åke Finnström

After a two year long-term assignment in Zimbabwe, Åke is now back at the head office. As from 1st July, 2001 he is the new Marketing Director for Swedesurvey.



Anders Rydén

Since the beginning of June Anders is working as a GIS and Cartographic expert at the Namibian Central Bureau of Statistics where he also supports the personnel.



Christos Papadopoulos

Welcome to Christos Papadopoulos who joined Swedesurvey in July 2001. Christos is mainly working with GIS applications and development.



Elisabeth Lundgren

Good Luck to Elisabeth who commenced her assignment as a bilateral assistant expert in the field of GIS in the Kyrgyz Republic in November.



Anders Hedin

For the next two years Anders will mainly be working with our new projects in Botswana.



Emma Pöppel

Good Luck to Emma who is to commence an assignment as a bilateral assistant expert in Zambia and work under the long-term adviser for the Urban Land Management Project.



Tommy Österberg

Technical Director and Vice President of Swedesurvey

Congratulations to Tommy who in September was appointed a post as visiting professor in International Land Information Management at the University of Lund.



Edwin Hyde

Since August 2000 Edwin Hyde has been stationed in Bishkek, in the Kyrgyz Republic as our long term expert in cadastral surveying, registration and land management.