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Nordic Innovation Centre

EUROPE'S FIRST METAREGION:
CREATING A KNOWLEDGE
BASED BIO-ECONOMY

ScanBalt BioRegion

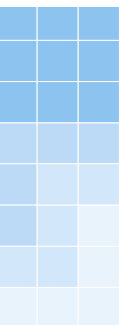


ScanBalt

BORDERLESS BIOTECH



DATE OF PUBLICATION: JUNE 2006
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The following project participants were elected to the Chairmanship of ScanBalt:

Bo Samuelsson (Chairman), Göteborg University
Børge Diderichsen (Vice chairman), Novo Nordisk
Jaanus Pikani, Estonian Genome Foundation

In addition to the Chairmanship the following project participants served on the ScanBalt Executive Committee:

Bent Christensen (replaced by Stig Jørgensen), Medicon Valley Academy
Werner Christie (replaced by Ole Solesvik), Innovation Norway
Hanna Halme, Turku Biovalley
Peter Nilsson-Ehle, Lund University
Arvydas Janulaitis, Institute of Biotechnology
Ole Marvik (replaced by Thor Amlie), Norwegian Bioindustry Association
Iordanos Azimanoglou, Biomedico Forum
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Jens Gran, Medcoast Scandinavia



Fact Sheet

Title: ScanBalt Network of Network in Biotech

Nordic Innovation Center (NICE) project number: 02095

Author: Peter Frank, ScanBalt

Abstracts: The project “ScanBalt Networks of Networks in biotech 02095” was divided into 4 sub projects (1) ScanBalt organisation; (2) Biotech one click away; (3) Educational mobility; (4) Economic barriers for Borderless Biotech. ScanBalt was 1 August 2004 established as an independent not for profit membership association. ScanBalt has attracted more than 4 mill Euro to the members, mainly in EU co-financing. A ScanBalt strategy 2006-2008 with 3 key priorities and 11 specific action lines was adopted in June 2005. The web www.scanbalt.org has approximately 50.000 hits per month. The ScanBalt Newsletter has 6000 subscribers, coming out 6 times a year. The Fact file “Education” allows to search for life science study and research institutions and their International student offices across ScanBalt BioRegion and present the education systems in the various countries. ScanBalt Campus, a Nordic-Baltic University structure in life science and biotechnology is being established co-funded by Interreg IIIB. ScanBalt Campus creates critical mass and promotes shared curricula. ScanBalt Academy has been established with prominent scientist from Industry and Academia to promote quality. A ScanBalt-Novo Nordic student exchange programme has been established. Fact file Investment informs of investment and venture capital companies. In addition can be found information on the public support systems for innovation throughout ScanBalt BioRegion. The fact file is published as a searchable database. In June 2005 Nature Biotechnology could declare that ScanBalt was Europe’s most successful initiative. ScanBalt acts as a recognized voice for ScanBalt BioRegion.

Key words: ScanBalt, ScanBalt BioRegion, Network of Networks, metaregion, borderless biotech

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Executive Summary

The report "ScanBalt BioRegion – Creating a Knowledge Based Bio-Economy" marks the end of the project "ScanBalt – Networks of Networks" financed by the Nordic Innovation Center.

The project was in accordance with the application divided into 4 sub projects each with their own objectives:

(1) ScanBalt Organisation:

Purpose: Consolidate and build ScanBalt network organisation in a regional/national based structure, expanding ScanBalt network and as a key factor.

ScanBalt was 1 August 2004 established as an independent not for profit membership association ScanBalt™ fmba with 22 Founding Members. At the end of the project 30 November 2005 ScanBalt had doubled to 44 Members. ScanBalt for the first financial year 1 august 2004 to 31 December 2005 had a profit of 78.000 Euro according to the audited financial report. All the most significant regional network organizations in ScanBalt BioRegion are today members of ScanBalt except Stockholm/Uppsala, though The Baltic University at Uppsala University is a member.

ScanBalt in the project period has been able to attract more than 4 mill Euro to the members, mainly in EU co-financing. The ScanBalt project portfolio 30 November included 4 projects with focus on Metaregional Infrastructure in research, education and innovation and 5 thematic projects. ScanBalt is today by the EU recognized as a model case on how to organize life science and biotechnology at a metaregional level also known as the "Big Fish – Small Fish" Model. The key words for the ScanBalt organization are "decentralization", "bottom up" and "regional involvement".

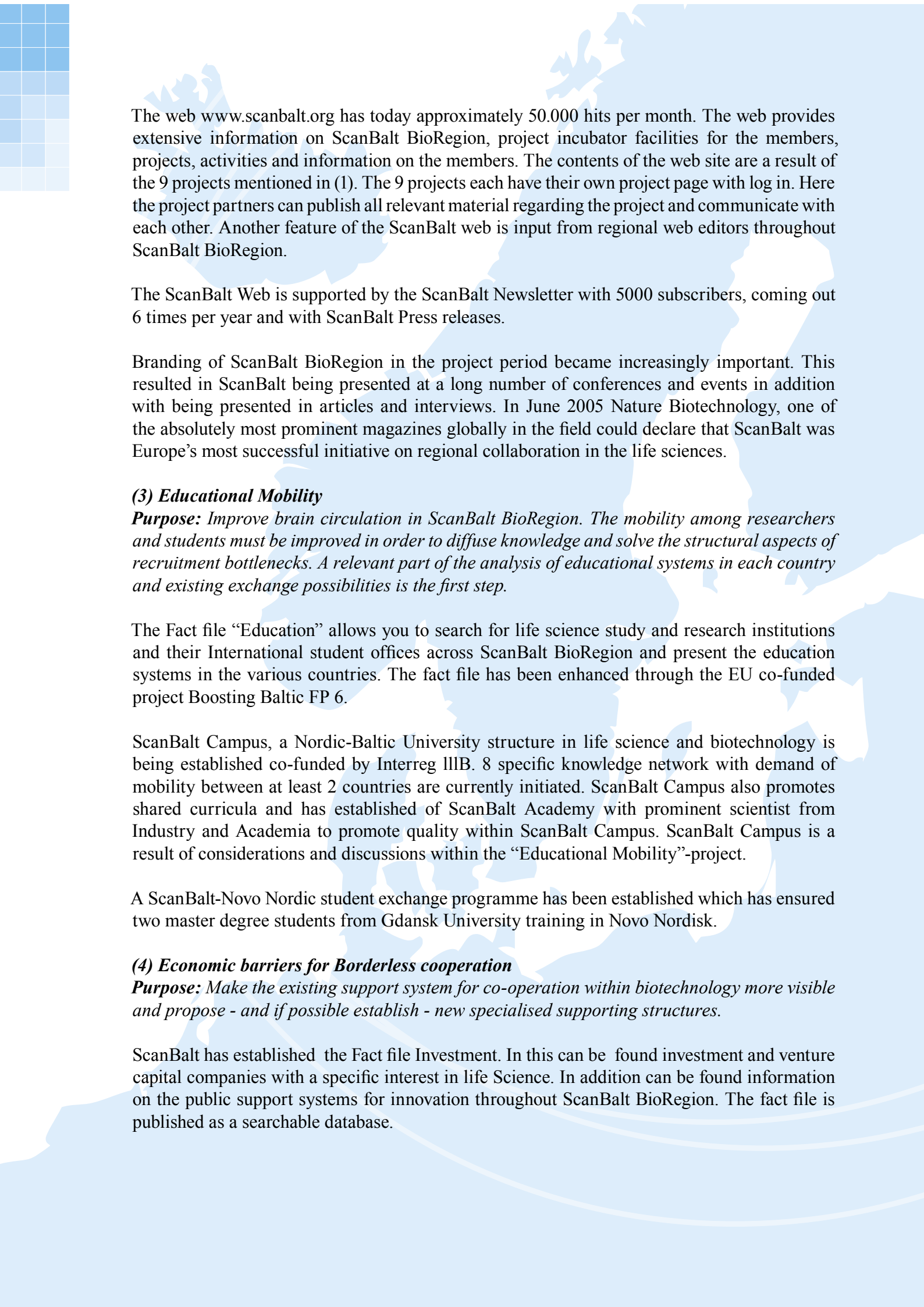
The objectives of the ScanBalt Network of Network project have been considerably strengthened with EU-funding to mapping of competencies, databases, marketing, media service and strategy development (see also other sub projects).

A strategy group with representatives from all the projects in Networks of Networks in 2004-2005 prepared the ScanBalt strategy 2006-2008 with 3 key priorities and 11 specific action lines. The strategy was adopted in June 2005. The 3 key priorities are:

- Identity and Infrastructures
- Communication and Transparency
- Coordination and Consolidation

(2) Biotech one click away

Purpose: Establish www.scanbalt.org as the portal to biotechnology in the Nordic-Baltic area. The website will be a natural tool in peoples work, when finding info, conferences and courses in ScanBalt BioRegion. It will develop into a dynamic, virtual cluster, where relations between actors are developed continuously.



The web www.scanbalt.org has today approximately 50.000 hits per month. The web provides extensive information on ScanBalt BioRegion, project incubator facilities for the members, projects, activities and information on the members. The contents of the web site are a result of the 9 projects mentioned in (1). The 9 projects each have their own project page with log in. Here the project partners can publish all relevant material regarding the project and communicate with each other. Another feature of the ScanBalt web is input from regional web editors throughout ScanBalt BioRegion.

The ScanBalt Web is supported by the ScanBalt Newsletter with 5000 subscribers, coming out 6 times per year and with ScanBalt Press releases.

Branding of ScanBalt BioRegion in the project period became increasingly important. This resulted in ScanBalt being presented at a long number of conferences and events in addition with being presented in articles and interviews. In June 2005 Nature Biotechnology, one of the absolutely most prominent magazines globally in the field could declare that ScanBalt was Europe's most successful initiative on regional collaboration in the life sciences.

(3) Educational Mobility

Purpose: Improve brain circulation in ScanBalt BioRegion. The mobility among researchers and students must be improved in order to diffuse knowledge and solve the structural aspects of recruitment bottlenecks. A relevant part of the analysis of educational systems in each country and existing exchange possibilities is the first step.

The Fact file "Education" allows you to search for life science study and research institutions and their International student offices across ScanBalt BioRegion and present the education systems in the various countries. The fact file has been enhanced through the EU co-funded project Boosting Baltic FP 6.

ScanBalt Campus, a Nordic-Baltic University structure in life science and biotechnology is being established co-funded by Interreg IIIB. 8 specific knowledge network with demand of mobility between at least 2 countries are currently initiated. ScanBalt Campus also promotes shared curricula and has established of ScanBalt Academy with prominent scientist from Industry and Academia to promote quality within ScanBalt Campus. ScanBalt Campus is a result of considerations and discussions within the "Educational Mobility"-project.

A ScanBalt-Novo Nordic student exchange programme has been established which has ensured two master degree students from Gdansk University training in Novo Nordisk.

(4) Economic barriers for Borderless cooperation

Purpose: Make the existing support system for co-operation within biotechnology more visible and propose - and if possible establish - new specialised supporting structures.

ScanBalt has established the Fact file Investment. In this can be found investment and venture capital companies with a specific interest in life Science. In addition can be found information on the public support systems for innovation throughout ScanBalt BioRegion. The fact file is published as a searchable database.



ScanBalt at the Baltic Development Forums summit 2005 organised a session on financing life science which contributed to inspire the Nordic Venture Associations for further discussions on cross border collaboration. In addition ScanBalt was represented at the 2005 Nordic Venture Summit VIP round table discussion.

The project group was represented in the ScanBalt strategy group and assisted to prepare the ScanBalt strategy 2006-2008 especially with developing action lines on innovation and financing.

ScanBalt has constantly argued to decision makers for the need of increased trans national funding in innovation and research.

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FOREWORD

ScanBalt Chairman, Bo Samuelsson



Bo Samuelsson
Chairman

This report outlines the milestones, and achievements of ScanBalt and ScanBalt BioRegion from the initial vision in 2001, to the present day – with the recognition as Europe's first successful metaregion^{1, 2}.

The report also marks the completion of the project "ScanBalt - Network of Networks" co-funded by the Nordic Innovation Centre. The aims of the project were to establish ScanBalt as an organisation, establish a web portal as a one-stop-entry point to the ScanBalt BioRegion. The results also include promotion of international mobility and contributions to reduce economic barriers for borderless co-operation.

At the following pages you will find a presentation of some of the key players and their activities. We also present the strategy for 2006-2008, which shall assist in reaching the goals set by the Lisbon agenda, our pioneering action in putting the Bologna process into practice and acting as a tool to realize the ambitions of the EU strategy for life science and biotechnology.

*"I am proud
to be involved
in ScanBalt"*

ScanBalt is primarily a mediating and coordinating umbrella or platform. Our strength comes from our members – who are regional, national and transnational networks together with universities, companies, development agencies, tech transfer organizations, hospitals and public authorities. Reaching our goals can only be done by providing added value to our members' activities.

The rapid development of ScanBalt BioRegion has been a truly exiting journey which has been made possible thanks to the generous support of the Nordic Innovation Centre, Interreg IIIB, NordForsk, and the EU FP6. ScanBalt's success – both now and in the future - comes from those individuals and organisations with the vision to recognise that Life Sciences and Biotechnology in northern Europe have a vital role to play in the future of Europe.

I am proud to have been involved in ScanBalt. The project results, fund raising and undoubted benefit to the European Life Science and Biotechnology sector are a vindication of the time and effort spent in creating this novel, and effective, organisation.

I hope that you enjoy reading about ScanBalt BioRegion, Europe's first successful Metaregion, and that you will find the inspiration to become involved, or continue your involvement, whether you are a company, institution, investor, public authority, hospital or individual.

¹ Nature Biotechnology, Volume 23, Number 6, 2005.

² A Metaregion is formed from the collaboration between microregions (eg. Medicon Valley).

Nordic innovation Center: www.nordicinnovation.net
NordForsk: www.nordforsk.org
EU's Sixth Framework Programme : <http://ec.europa.eu/research/fp6>
BSR INTERREG III B: www.bsrinterreg.net
www.scanbalt.org/members
www.scanbalt.org

SCANBALT – a Nordic-Baltic show-case



*Kjetil Storvik
Managing
Director*

In the early nineties Nordic Biotech was defined as one of the major growing sectors. National investments and programs were established in order to support research and innovation in this new industry. The Nordic Innovation Centre's (NICE) main role is to grasp early signals and needs from new and emerging industries and create Nordic platforms for co-operation. Such platforms will enhance innovation and create critical mass, thereby increasing the global competitiveness of Nordic industry.

ScanBalts core concept, the creation of a Nordic and Baltic network of networks within the field of biotech, was directly in line with NICE's role and strategy. In addition to investing in the establishment of the ScanBalt organisation and infrastructure, NICE has also invested in projects operating under ScanBalts umbrella. The NICE commitment to ScanBalts organisation, activities and independent projects represents one of NICE's biggest ever investments.

ScanBalt has managed to create a metaregion of critical mass benefiting both knowledge institutions and industries. For NICE, the ScanBalt metaregion is a showcase of Nordic co-operation. Without the early investments in ScanBalt this Nordic-Baltic region would never have been this strong in the field of Biotechnology.

Today I see ScanBalt not only as a good investment but as a valuable partner for realizing the potential of Nordic-Baltic co-operation.

Nordic innovation Center: www.nordicinnovation.net
ScanBalt project pages: www.scanbalt.org/projects

WELCOME TO SCANBALT BIOREGION

Europe's first Metaregion for Life Science and Biotechnology

ScanBalt BioRegion has been founded with the aim of ensuring that north European Life Science and Biotechnology realises its potential for global competitiveness.

The ScanBalt BioRegion encompasses Denmark, Estonia, Finland, Iceland, Latvia, Lithuania, Norway, Poland, Sweden, the northern part of Germany and north western Russia. This metaregion provides a structure for the acceleration of the academic, commercial and entrepreneurial activities necessary to compete successfully with the USA and Asia.

There are many relevant cultural, historical and political ties in ScanBalt BioRegion and more than 60 universities and 870 biotech/life science companies are located within.

In the ScanBalt BioRegion a number of regional networks exist between universities, industry, hospitals, public institutions and other important actors within the life science arena. The region therefore constitutes an excellent foundation for the promotion of closer interregional and cross-national cooperation. These regional networks' aims are the basis of ScanBalt. ScanBalt is a unique concept with the sole purpose of building a strong competent metaregion able to compete with other life science regions at the global level.

ScanBalt is a mediating and coordinating non-profit association deriving its strength from the networks and organisations it represents. ScanBalt brings together regional and national expertise into one coherent, transnational, organisation.

More information on the competencies within ScanBalt BioRegion can be found in the ScanBalt FactFiles

www.scanbalt.org/bioregion
www.scanbalt.org/incubator
www.scanbalt.org/projects
www.scanbalt.org/organisation

***Denmark,
Estonia,
Finland,
Iceland,
Latvia,
Lithuania,
Norway,
Poland,
Sweden,
the northern
part of Germany
and north
western Russia***

SCANBALT

– a Voice for ScanBalt BioRegion

Position papers

ScanBalt publishes position papers on subjects which affect its members, and the ScanBalt BioRegion. ScanBalt has currently released two position papers, which can be found in full text at www.scanbalt.org:

○ ScanBalt Position paper no. 1: Metaregions and preparation of FP 7

ScanBalt advises the EU to strengthen meta-regional development as a tool to reach major EU objectives. The key recommendations to do so are:

1. Strengthen meta-regional infrastructures for education, research, innovation, tech-transfer and development
2. Increase synergy between FP 7, Interreg, Eureka, other EU-funds as well as the Northern Dimension Action Plan, Nordic Innovation Centre, NordForsk and other regional initiatives.
3. Increase meta-regional representation in the EU advisory structure wherever it is relevant

○ ScanBalt Position Paper no. 2: Marine biotechnology in FP 7

ScanBalt Marine Biotech network supports the Galway declaration and calls for a greater priority to be given to Marine Science and Marine Biotechnology in FP7. This means strengthening Marine Science in FP7 by introducing Marine science as a horizontal initiative with respect to each of the individual axes of FP7.

| www.scanbalt.org/position_papers

European Spallation Source (ESS)

ESS is a large scale facility which, as the world's biggest and most powerful neutron scattering facility will provide researchers, from all disciplines, the opportunity to look deep inside matter and thus understand the behaviour of individual atoms and molecules. ScanBalt supports the placement of ESS in Region Skåne, Sweden.

| www.ess-scandinavia.org

Innovative Medicines Initiative – A Joint Technology Initiative

The Innovative Medicines Initiative (IMI) has been launched by the European Commission and EFPIA (European Federation of Pharmaceutical Industries and Associations) in order to accelerate the development of safe and more effective medicines.

A Medicon Valley based “IMI workgroup” has hosted 2 Stakeholder seminars, that attracted participation from the entire ScanBalt community. The 1st Stakeholder meeting focused on four targeted disease areas: Cancer, Diabetes, Brain disorders and Inflammation. The 2nd Stakeholder meeting was hosted in cooperation with ScanBalt Clinical Research Network and focused on “Clinical trials and patient recruitment”. ScanBalt actively supports the location of an IMI Executive office in the Medicon Valley. Please contact Lise Vinkel Clausen for more information (lv@scanbalt.org).

| www.scanbalt.org/sw5983.asp
| www.mva.org/imi

Increase Transnational Funding

ScanBalt constantly promotes the need for increased funding of transnational research and development. This is an absolute necessity if the competencies in the 11 ScanBalt countries are to be fully exploited. Highly educated populations and excellent science, innovative behaviour, cost effectiveness and emerging clusters in the Baltic countries, Poland and north western Russia combined with the industrial know how, established clusters and spearhead competencies in the Nordic countries and northern Germany gives us a unique possibility for growth and prosperity based on our competitive edge.

ScanBalt suggests that the Nordic collaboration should be considerably strengthened and enlarged to cover the entire ScanBalt BioRegion.

In addition public, national and regional funding should be much more open for cross border investments in research, development and start-up companies.

Promote mobility of human and financial resources

ScanBalt works to promote the increased, and effective, mobility of human and financial resources in ScanBalt BioRegion. This work has been co-funded by the Nordic Innovation Center and EU FP6 and has resulted in 6 searchable databases focusing on competencies and capacities in ScanBalt BioRegion.

The databases are currently:

- Life science education and educational mobility
- Venture capital and national support systems for biotech
- Clinical competencies
- Company Listings
- Industry associations
- Universities

In addition, in 2005 the ScanBalt Forum and the Baltic Development Forum Summit organised sessions with a particular focus on how to increase the availability of venture capital.

www.scanbalt.org/factfile-e
www.scanbalt.org/factfile-i
www.scanbalt.org/factfile-c



“Increased mobility carries with it the threat of an East- West brain drain. With some prudence and creativity this could be avoided. One approach is to set up networks such as ScanBalt, that emphasizes collaboration between the East and West”

*Paul Smaglik, editor,
NatureJobs, Nature 429, p. 323, 20 May 2004.*

ScanBalt gives support to stem cell research

ScanBalt has argued to relevant ministers throughout ScanBalt BioRegion for a common Nordic Strategy of cooperation within stem cell research being a substantial contribution to a Nordic Research and Innovation Area (NORIA). Therefore ScanBalt urges that stem cell research becomes a prominent strategic theme to further develop the high level of excellence present in the ScanBalt BioRegion.

PROJECT ACTIVITIES AND ACHIEVEMENTS



The Project Leaders from ScanBalt Campus met at the 4th ScanBalt Forum in Oslo.

ScanBalt Forum

ScanBalt Forum is the annual meeting place for ScanBalt's projects, public and private life science researchers, regional and national decision makers and European stakeholders. ScanBalt Forum is a platform for the coordination of existing activities and the initiation of new ones. ScanBalt Forum promotes a dialogue with regional, national and supranational decision makers and facilitates new fund raising activities.

**ScanBalt
Forum
2006,
Estonia**

ScanBalt Forum is organized and hosted by a different ScanBalt member every year. The first ScanBalt Forum took place at the 1st Baltic Biotech Forum in Teschow, Mecklenburg-Vorpommern. ScanBalt Forums have subsequently taken place in 2003 (Gdansk, Poland, organized by Anna Podhajska, University of Gdansk), 2004 (Turku, Finland, organised by Hanna Halme, BioTurku) and 2005 (Oslo, Norway, organised by Jens Gran, MedCoast Scandinavia). In 2006 the 5th ScanBalt Forum will take place in Tartu, Estonia, organised by the Estonian Genome Foundation.

| www.scanbalt.org/Forum2006

ScanBalt project incubator

ScanBalt acts as both an umbrella and a platform for transnational projects according to simple guidelines approved by the ScanBalt Executive Committee. ScanBalt has facilitated the raising of approximately 4 million Euros for its members since 2002. Projects either focus on the development of metaregional infrastructure in the ScanBalt BioRegion or on a specific theme. The ScanBalt incubator function implies that ScanBalt upon initiative or suggestions from its members can assist in identification of key stake holders, attract pilot project funding and provide initial secretariat assistance and prepare - or assist to prepare - large scale funding applications.

| www.scanbalt.org/incubator

**ScanBalt
has raised
4 million
Euro for it's
members**

Metaregional Infrastructure Projects



o ScanBalt Network of Networks in Biotechnology

The project "Scanbalt Network of Networks in biotechnology" focuses on the development of the ScanBalt organisation, the involvement of key players from ScanBalt BioRegion, and the increased promotion of human and financial mobility.

The project targets 4 areas:

- Educational mobility • Economic barriers to borderless cooperation
- Biotech – one click away • Organisational set-up

The project was initiated in December 2002 and co-funded by the Nordic Innovation Center. Contact Peter Frank, pf@scanbalt.org.

| www.scanbalt.org/networks_of_networks



o ScanBalt Competence Region

It is the objective of ScanBalt Competence Region, to provide an extensive and structured mapping of the ScanBalt BioRegion's Life Science and Biotech actors, competencies, framework conditions and other relevant factors on a globally comparable basis. This will increase transparency within the ScanBalt BioRegion and assist in the integration of the new EU-members. The project was initiated October 2004 and is co-funded by the EU FP 6. The project is coordinated by BioCon Valley.

Contact Careen Krüger, ck@bcv.org

| www.scanbalt.org/compreg



o Boosting Baltic FP 6

Boosting Baltic FP6 aims to increase National Contact Point (NCP) competencies in FP6, and related programs. The project works with the NCPs, and their customers, through the promotion of advanced partnerships and the development of entrepreneurial and competitive skills. The project has two target groups, the NCP's of 4 newly associated countries (Estonia, Latvia, Lithuania and Poland) and their life science research community, as a model case for effective technology transfer. Boosting Baltic FP6 is co-funded by EU FP 6. The project is coordinated by Steinbeis Transfer Center Technology and Management Northeast. Contact Frank Graage, graage@stw.de

| www.scanbalt.org/boosting

○ ScanBalt Campus



ScanBalt Campus (SBC) is a R&D and education network between universities, companies, hospitals/university hospitals and other actors – all sharing life sciences and biotechnology as a common base. The SBC will improve regional coordination and mobility, and increase collaboration between sectors. SBC will deliver a framework, acting as an umbrella and/or as a platform, in the whole field of knowledge formation from idea to market. ScanBalt Campus is co-funded by Interreg III B. The project is coordinated by Göteborg University. Contact Katarina Gårdfeldt, katarina@chem.gu.se

*Pioneer
in putting
the Bologna
process into
practise*

ScanBalt Campus Knowledge Networks

As part of the ScanBalt Campus project transnational collaborations in education and research are being established. They result from open tender procedures to the members of ScanBalt. This bottom up approach is a strong and unique characteristic, which improves metaregional coordination and visibility. The following Knowledge Networks are currently being established:

| www.scanbaltcampus.org

○ Environmental Biotechnology



This network has its node at the Centre for Environment and Sustainability (GMV) at Chalmers University of Technology and Göteborg University. It is coordinated by professor Oliver Lindqvist, GMV. The scientific focus is renewable energy, chemicals and new products from forestry and agriculture. One aim is the production of bio-fuel for the transport sector based on residues (or products) from forestry and agriculture. Three areas of specific interest are the extraction of lignin from black liquor (kraft paper pulp process), ethanol production (separation of lignin from process streams) and the gasification of biomaterial.

Contact Katarina Gårdfeldt, katarina@chem.gu.se

| www.scanbaltcampus.org/envbio

○ Process Analytical Technology (PAT)



PAT is a system for designing, analyzing and controlling pharmaceutical manufacturing through measurements of quality and the performance properties of materials and processes. The goal is to maximize final product quality. The intended results of the PAT framework are a reduction of production cycle time with more advanced measurement and control methods. In addition it will enable more automation and savings of energy and material. The PAT network is being coordinated by Prof. Carl-Fredrik Mandenius, Linköping University, Sweden.

Contact Carl-Fredrik Mandenius, cfm@ifm.liu.se

| www.scanbaltcampus.org/pat

◦ Molecular Diagnostics



The Molecular Diagnostics network is coordinated by the Intercollegiate Faculty of Biotechnology, University of Gdańsk and Medical University of Gdańsk. These act as a hub together with the Technical University of Gdańsk. This hub is in collaboration with the University Medical Centre Hamburg-Eppendorf, Germany, and the Institute of Tumor Biology and Radium Hospital, Oslo Norway. The Network focus is on the extension of existing expertise in molecular diagnostics to highly specialized fields enabling the development of new commercial diagnostic tools and strategies and the improvement of standards in experimental research on cancer. There is also a focus on the development of new diagnostic tools for the detection and identification of plant pathogens and animal diseases. The network is co-financed by FP6 and COST. Contact *Ewa Lojkowska*, lojkowsk@biotech.univ.gda.pl

| www.scanbaltcampus.org/moldiag

◦ Regenerative medicine



ScanBalt Regenerative Medicine Knowledge Network is coordinated by the University of Rostock, and BioConValley. The aim is to bundle existing high-level research activities in the fields of regenerative medicine, biomaterials, stem cell research and ethics to form a virtual center representing a north European knowledge region in regenerative medicine. The center is planned to be positioned as an international competitive regional cluster and to recruit national grant support. Contact *Gustav Steinhoff*, gustav.steinhoff@med.uni-rostock.de

| www.scanbaltcampus.org/regmed

◦ Informational Biology



Informational biology reflects the current changes in biosciences where a multidisciplinary approach is required in order to fully exploit available data, and involves biochemistry, biophysics, structural biology, bioinformatics, computational chemistry, cell biology, computer sciences and mathematics, among others. The Knowledge Center will have clear links to industry, particularly related to biotechnology, medicine and pharmaceutical development. Graduate students will receive a high-quality, multidisciplinary education and research training experience. The Knowledge Network is coordinated by Åbo Akademi University. Contact *Mark Johnson*, johnson4@abo.fi

| www.scanbaltcampus.org/infbio

Entrepreneurship and Innovation

◦ Intellectual Property and Bio-entrepreneurship



The purpose is to satisfy the need for increased knowledge and skills in the creation of innovation from bioscience research in the region. Specifically, skills and tools in IP management and innovation, technology transfer, venture creation, and business development are required to ensure a return on the huge investment in bioscience research from industry, universities, and society. Education and training programs will be offered focusing on different actors including university students, researchers, technology transfer professionals, and business actors involved in bioscience activities. In addition, there will be a focus on new research into critical operational theories and the development of interdisciplinary business tools to address the creation of early-stage bioscience innovations.

Contact *Bo Heiden*, bo.heiden@cip.chalmers.se

| www.scanbaltcampus.org/ipbio

◦ Education and Training of Leaders for the Life Science Industry of the Future



The aim is to design, develop and test a set of course modules for business students interested in the management of life science-related businesses in the Scan-Balt BioRegion. Highly specialized training schemes will be developed for academics with limited professional experience. This will target those who need analytical insights and additional qualifications to become engaged, for example, at a professional level in the operations of a business unit or in the management group of a biotech start up. A further aim is to develop and test internships in life science firms and institutions in the Baltic Sea Region. The internships would be open to young management talent, who want to gain practical experience as part of (or as a supplement to) their academic education. The activity will be coordinated by the Copenhagen Business School, Contact *Jan Annerstedt*, ja.Int@cbs.dk

| www.scanbaltcampus.org/lseu

◦ Baltic Entrepreneurship Training

The "Baltic Entrepreneurship Partners" (BEPART) project focuses on the European need for a strengthened entrepreneurship culture, more effective entrepreneurship promotion and more qualified personnel for entrepreneurship education in order to raise start-up numbers and employment opportunities. The project is co-financed by Interreg III C. The partners will offer a course with multi-university certification from autumn 2006 onwards. The modular structure



will allow for the specialization of prospective entrepreneurship trainees and lectures. Studies will be undertaken which will benefit entrepreneurship education within partner universities as well as competent business counseling of new venture initiatives by technology centers and incubators. The Network will offer tailor-made training on entrepreneurship issues for staff members of larger and medium sized companies. *The network is coordinated by the Hanseatic Institute for Entrepreneurship and Regional Development at the University of Rostock.*

Contact *Christoph Diensberg*,

christoph.diensberg@uni-rostock.de

| www.scanbaltcampus.org/bet

Thematic Projects

ScanBalt Thematic Projects focus on specific subjects within research, innovation and education based on the initiative or suggestions from ScanBalt members.

*research,
innovation
and education*

◦ ScanBalt IP-Knowledge Network (Intellectual property)



The objective of the ScanBalt Intellectual Property Knowledge Network (IPKN) is to facilitate regional cooperation and coordination of research and education in the field of intellectual property (IP) management in order to boost supply and demand as well as the accessibility of IP knowledge throughout the ScanBalt BioRegion. The project has its own website at www.cip.chalmers.se/ipkn/. The project is co-funded by EU-FP 6. Contact Bo Heiden, bo.heiden@cip.chalmers.se

| www.cip.chalmers.se/ipkn

◦ ScanBalt Marine Biotech Network

The ScanBalt BioRegion has high level competencies in marine research. The ScanBalt Marine Network aim is to create critical mass and mobility between these competencies and to attract substantial funding. The marine biotech network has received pilot project funding from NorFa.

Contact Lise Vinkel Clausen lv@scanbalt.org

| www.scanbalt.org/marine



◦ ScanBalt Clinical Research Network

The clinical research network maps spearhead competencies, potential partners and participants with the aim of facilitating the formation of partnerships between hospitals, academia and private companies. It will also enable the formation of partnerships between existing networks and exploit the cross disciplinary innovation potential. It will develop databases for the purpose of easy access to competency information, and partner searches. A pilot project is co-funded by The Nordic Innovation Center.

Contact Jaanus Pikani, jaanus.pikani@biotech.ee.

| www.scanbalt.org/clinres



◦ ScanBalt AgroBiotech Network

The network has been formed focusing on biotechnology based research on "Root-Microbe Systems Biology". It promotes training and education of research students, but is also highly beneficial to experienced researchers by providing a firm network structure targeting the significant problems of root and microbe interactions. The network has received co-funding from NorFa.

Contact Jari Valkonen, jari.valkonen@helsinki.fi

| www.scanbalt.org/agro



◦ ScanBalt Stem Cell Network

ScanBalt Stem Cell Research Network has representatives from all the 11 countries in the ScanBalt BioRegion. ScanBalt BioRegion could become world leading within stem cell research provided that measures of cooperation, research training and mobility of researchers and research students are initiated. The ScanBalt Stem Cell Network has received a planning grant from NorFa and partners in the network have received funding from the European Science Foundation. Contact Stefan Krauss, stefan.krauss@medisin.uio.no

| www.scanbalt.org/stemcell



CLUSTER DEVELOPMENT

By:

Wolfgang Blank, CEO, BioCon Valley, Vice Chairman, ScanBalt and
Careen Krüger, Project Manager, BioCon Valley



Wolfgang Blank,
CEO, Biocon Valley

ScanBalt CompetenceRegion will provide a comprehensive and structured mapping of the ScanBalt Bioregion in order to develop a model-case of joint regional strategies and recommendations on how to strengthen the competitiveness of a metaregion.

The results give a picture of the competencies and capacities in life sciences and biotechnology in the individual bioregions, and countries; from individual actors, university units, research institutions and companies. The collected quantitative and qualitative data will serve as a basis for a Scorecard analysis and subsequent Cluster analysis.

The development of clusters occurs in life cycles along a development curve. According to the first mapping, clusters and networks in life sciences and biotechnology in the ScanBalt BioRegion are at different levels of development and specification.

3 stages of cluster development

- **1st stage:** Technologically oriented clusters develop in regions with high and outstanding scientific expertise. The scientists and their institutions (often public funded) can be regarded as “scientific fountains” developing and producing excellent and commercially attractive results laying the foundation for the spin off of start up companies as well as for the attraction of capital.
- **2nd stage:** Characterized by the “co-location” of science and industry. Companies start to attract private capital to finance their further growth and development.
- **3rd stage:** The cluster attracts foreign expertise, companies and capital to the region. This stage can be described as “in sourcing” based upon the attractiveness of the cluster for outside resources.

A cluster is embedded in the economical, social and political system and its development depends to a large extent on prevailing socio-economical conditions. In the ScanBalt BioRegion several bioclusters exist: Medicon Valley Academy, Turku Biovalley, BioCon Valley, MedCoast Scandinavia, BioTeam South, BioMedico Forum, BioForum Oulu, Norgenta, BioTop Berlin-Brandenburg and BioMobile. These clusters vary significantly in size and critical mass. Medicon Valley can be regarded as one of Europe’s top 5 bioclusters regarding scientific excellence and critical mass. Turku Biovalley or BioCon Valley show individual strengths in specific areas of life sciences and biotechnology.

Many others cluster formations can be identified around the Baltic Sea Region, e.g. in Poland, Lithuania, Latvia and Estonia. In the Baltic Sea Region, the socio-economical conditions for creating value between these clusters is regarded as more than promising.

It is the goal of the 2nd mapping phase to identify the potentials of transnational cooperation in ScanBalt BioRegion and describe the necessary measures of how to create even more value between the different bioclusters.

www.scanbalt.org/compreg
www.scanbalt.org/bioregion

THE BALTIC SEA INITIATIVE 2010



*Jaanus Pikani,
Estonian Bio-
technology
Association,
Vice Chairman
ScanBalt*

ScanBalt in 2005 signed a strategic partnership with the Baltic Development Forum and became involved in the Baltic Sea Initiative 2010. This seeks to establish a coherent strategy for the development of the entire Baltic Sea Region. ScanBalt's representative in the Baltic Sea Initiative is Jaanus Pikani, ScanBalt Vice Chairman, representing the Estonian Biotechnology Association.

The importance of this partnership was demonstrated at the annual summit of the Baltic Development Forum in October 2005, Stockholm, where the participants included the President of the European Commission José Manuel Barroso, Nordic and Baltic Prime Ministers, Baltic Sea Region key stakeholders and other high level representatives. ScanBalt was highlighted several times as a model case for the region and has been identified as one of a core group of stakeholders who have the primary role of promoting competitiveness and sustainable growth in the Baltic Sea Region. General Secretary Per Unkel, The Nordic Council of Ministers, has the overall responsibility for the Baltic Sea Initiative. Read more about the Baltic Sea Initiative at www.bdforum.org

"ScanBalt BioRegion is a very concrete and visionary example of how the Baltic Sea region and its 11 countries can become a global centre of excellence, if we make the right choices"



Chairman of the Baltic Development Forum and Former Danish foreign minister Uffe Ellemann-Jensen (Left) shake hands with The Chairman of ScanBalt Bo Samuelsson (Right).

Chairman of the Baltic Development Forum and Former Danish foreign minister Uffe Ellemann-Jensen (Left) shake hands with The Chairman of ScanBalt Bo Samuelsson (Right) after signing the strategic partnership. Uffe Ellemann Jensen said: "ScanBalt BioRegion is a very concrete and visionary example of how the Baltic Sea region and its 11 countries can become a global centre of excellence, if we make the right choices".

Baltic Development Forum: www.bdforum.org
Nordic council of Ministers: www.norden.org

THE MILESTONES

in ScanBalt's History



Børge Diderichsen
Vice President,
Novo Nordisk

There is insufficient space to tell the complete story of ScanBalt or give credit to the many organisations, institutions and individuals who have been so crucial by devoting their valuable time and energy. However, here are presented some of the important milestones in the creation of ScanBalt. Those individuals, who were responsible for certain activities, are mentioned in brackets.

2001

June Novo Nordisk presents the advantages of closer regional life science collaboration to Norwegian Prime Minister Jens Stoltenberg (Børge Diderichsen)

November During the 1st Baltic Biotech Forum a discussion on Nordic-Baltic life science results in the initiation of ScanBalt as a mechanism for promoting greater collaboration

2002

January Copenhagen. Bo Samuelsson is elected project chairman and Wolfgang Blank elected vice chairman. Work groups are established on "Mapping", "Research and Education" and "Innovation and Recruitment" (Werner Christie, Mikael Klingberg, Wolfgang Schütt)

June After receiving co-funding from the Nordic Innovation Center, a pilot project is initiated to develop the concept of ScanBalt BioRegion.

October Malmö, Sweden. Børge Diderichsen and Anna Podhajska are elected as vice chairmen of ScanBalt.

December After further co-funding from the Nordic Innovation Center, and hosted by the Medicon Valley Academy, the infrastructure of ScanBalt is initiated,

2003

May 2nd ScanBalt Forum, Gdansk, Poland. Organised by the Center of Technology Transfer, Gdansk University (Anna Podhajska).

2004

June The first large scale ScanBalt project, 'Boosting Baltic FP6', is started, co-funded by EU FP 6 (Frank Graage) and directly contributing to ScanBalt BioRegion competencies.

August Finland. The 3rd ScanBalt Forum takes place, organised by Bio-Turku (Hanna Halme). ScanBalt becomes an independent not for profit membership association and the formal Chairmanship is elected (chair Bo Samuelsson, vice chairs Wolfgang Blank, Børge Diderichsen, Ewa Lojkowska, Jaanus Pikani) and the General Secretary appointed.

October The ScanBalt Infrastructural project 'CompetenceRegion' is initiated, co-funded by EU FP 6 (Wolfgang Blank). The aim is to detail competencies and skills in the BioRegion

*1 st of August
2004 ScanBalt
becomes an
independent
not for profit
membership
association*

Become a ScanBalt member!
www.scanbalt.org/members

2005

March The ScanBalt Intellectual Property Knowledge Network is initiated, co-funded by EU FP 6 (Bo Heiden). The network will improve IP skills, and consolidate activities.

April A strategic partnership is signed with the Baltic Development Forum and ScanBalt enters the Baltic Sea Initiative 2010 (Jaanus Pikani)

May The ScanBalt project 'Campus' is initiated, co-funded by EU Interreg III B (Oliver Lindquist). An ambitious project offering unique education opportunities in Life Sciences and Biotech.

June Kjetil Storvik, CEO Nordic Innovation Center, is elected as a co-opted member of the ScanBalt ExCo.

June ScanBalt Academy is initiated with Professors Kaare Norum, Oslo and Leena Peltonen-Palotie, Helsinki, elected as chairman and vice-chairman respectively.

June A strategy for 2006-2008 is adopted (Strategy group: Børge Diderichsen, Hanna Halme, Horst Klinkman, Hans Kuhn, Ewa Lojkowska, Kaare R. Norum, Jaanus Pikani, Bo Samuelsson, Vadim Vassilyev)

June The board of ScanBalt Campus is elected (Bo Samuelsson, Børge Diderichsen, Horst Klinkman, Wieslaw Makarewicz, Valdis Pirags)

November The 4th ScanBalt Forum, Oslo, Norway, is organised by MedCoast Scandinavia (Jens Gran) and the first General Assembly of ScanBalt is held.

November The Federal German State of Mecklenburg-Vorpommern offers to open the first ScanBalt liaison office (Minister Hans Robert Metelmann). The intention is for others to follow, across the ScanBalt BioRegion.



Participants in the round table discussion during the 1st Baltic Biotech Forum, Teschow, Mecklenburg-Vorpommern, Germany, November 2001. In the center Anna Podhajska, in memoriam, organizer of the ScanBalt Forum 2003 and former Vice Chairman of ScanBalt.

www.scanbalt.org/organisation
www.scanbalt.org/projects

STRATEGY 2006-2008

ScanBalt

BORDERLESS
BIOTECH



The following section outlines the strategy for 2006-2008.

The strategy is supported by specific action lines developed by the members of ScanBalt.

ScanBalt Vision, Values and Mission

Vision

ScanBalt will promote knowledge formation, education, research, technology transfer, innovation and economic development within life sciences in order to meet meta-regional needs and increase competitiveness. This will be in accordance with ScanBalt values. ScanBalt will be a forum for discussions of the impact of life sciences on society. ScanBalt will act as a platform and an umbrella for activities within life sciences.

Values

ScanBalt believes that the life sciences have a major potential to contribute positively to health, welfare and prosperity. The exploitation of life sciences and the promotion of growth must be conducted in tandem with a dialogue between science and society. ScanBalt will promote such a dialogue.

Sustainable development is, in the same sense, an overarching objective for ScanBalt. Thus the development and application of life sciences must take place in a way which is healthy to citizens and the environment and is consistent with common fundamental values and ethical principles. The development of ScanBalt BioRegion requires that these values are respected and that all involved parties will benefit while working together towards the same goals.

Mission

With respect for our vision and values, ScanBalt promotes the development of ScanBalt BioRegion as a globally competitive meta-region.

Action Lines

The action lines fall within three priorities:

Identity

and Infrastructures

- *promote a corporate identity for ScanBalt BioRegion*
- *facilitate meta-regional infrastructures for education, research, tech transfer, innovation.*
- *promote the integration between regions based on mutual benefits.*
- *strengthen interaction between knowledge – production, -transfer and -utilization.*
- *promote large scale financing of meta-regional infrastructures.*

Communication

and Transparency

- *be a voice for ScanBalt BioRegion.*
- *promote the triple helix model in line with EU strategies.*
- *strengthen communication between life science actors in ScanBalt BioRegion*
- *strengthen international promotion of regional capacities and build bridges to regions outside the EU*
- *attract human and financial resources.*
- *promote transparency of metaregional activities.*

Coordination

and Consolidation

- *assist ScanBalt networks to concrete goals.*
- *facilitate dialogue and promote coordination and synergy.*
- *strengthen dialogue with our members and adjust to needs.*
- *strengthen coordination and partnerships with relevant organisations*

| Download full strategy: www.scanbalt.org/strategy

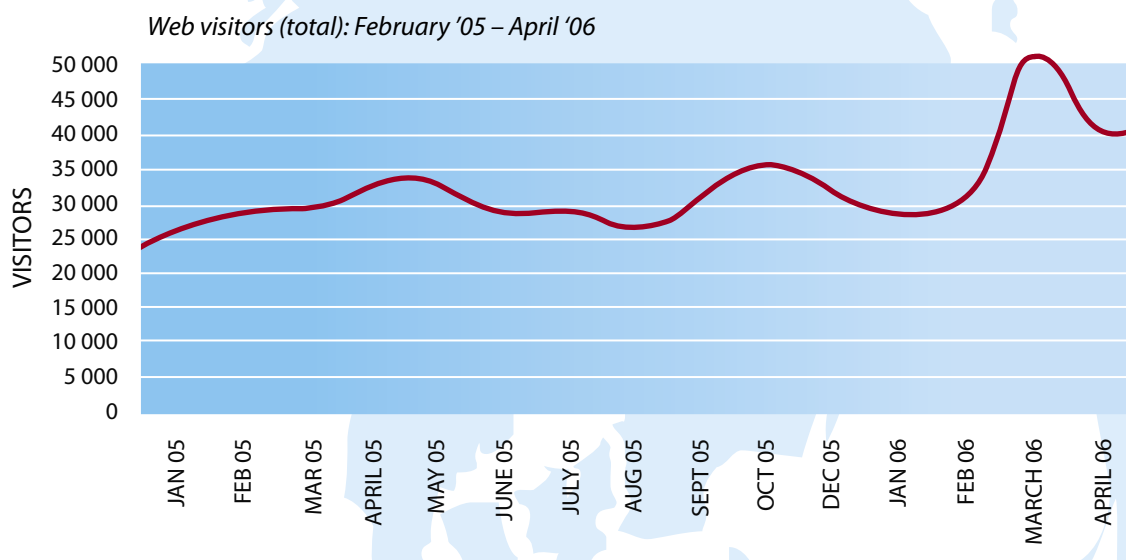
BIOTECH - ONE CLICK AWAY

The one stop web-entry to ScanBalt BioRegion

With co-financing from the Nordic Innovation Center, ScanBalt has developed the website, www.scanbalt.org, to a well visited one-stop-entry to ScanBalt BioRegion with over 40.000 monthly visitors. The web is based on ScanBalt's philosophy of being bottom up and decentralized. This means that every region in ScanBalt BioRegion can have its own regional web editor with the ability to post relevant regional news and information.

*Access to
competencies*

The website for ScanBalt BioRegion is being further strengthened through the Interreg IIIB-project ScanBalt Campus, which will enable easy access to Campus Knowledge Networks' competencies. This shall also assist in promoting ScanBalt BioRegion to students, researchers, companies and investors inside and outside of ScanBalt BioRegion. A media service is being developed which shall assist the members of ScanBalt to effectively communicate their news and information to the largest possible relevant audience.



| Biotech one click away: www.scanbalt.org/boca

***Subscribe to ScanBalt
newsletter!***
www.scanbalt.org/newsletter

SELECTED PRESENTATIONS

(chronological order)

Bo Samuelsson:

How to Reach a Critical Mass in the European Union: The ScanBalt Success Story, Biovision 2003, Lyon, 9-11 April 2003

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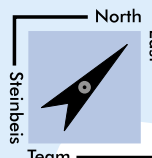
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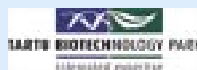
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SCANBALT SECRETARIAT

The ScanBalt Secretariat coordinates and facilitates the activities of ScanBalt. The staff at the secretariat promote the successful implementation and development of ScanBalt's projects and strategy.

The Secretariat is the one stop entry to the ScanBalt BioRegion and can answer all enquires concerning, for example, existing projects, membership or proposals for collaboration. The Secretariat staff have extensive experience in attracting project funding, international project management and communication.

The establishment of the secretariat and the successful initiation of ScanBalt as an independent not-for-profit member association was co-financed by the Nordic Innovation Centre.

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Left to right: John Wedderburn / Project Manager, Peter Frank / General Secretary, Lise Vinkel Clausen / International Communications manager, Elise Kvarnström / Project Manager

SCANBALT MEMBERSHIP INFORMATION

ScanBalt offers 2 types of commercial membership:

	<i>Joining Founding Membership</i>	<i>Institutional Membership</i>
<i>Votes at General Assembly</i>	5	1
<i>Votes at Executive Committee</i>	1	1 by election
<i>Fee, €</i>	5000	1000

* new members can apply for reduced fee (minimum 10%)

Member benefits

○ Incubator service

ScanBalt members have exclusive right to use the ScanBalt incubator function for setting up projects and attracting funding. Only ScanBalt members can participate in ScanBalt Projects utilizing ScanBalt as a platform / umbrella.

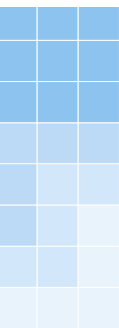
○ Information service

ScanBalt members are free to use the ScanBalt website and ScanBalt Newsletter to bring news stories and highlights and to post jobs, events, scholarships and grants.

○ Reduced fees

ScanBalt members participate in ScanBalt events at reduced fee, and at other selected events.

***Please find Application form
and more information at:
www.scanbalt.org/members***



ScanBalt™ report 2006

Publisher ScanBalt

Editors L.V. Clausen
P. Frank
E. Kvarnström
J. Wedderburn

Design Triip, Estonia

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