



The Digital North Denmark



Annual report 2002



The Digital
North Denmark

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Orla Hav, County Mayor of the County of North Jutland (Chairman)
Henning G. Jensen, Mayor of the Aalborg Municipality
Bent Brown, Mayor of Hjørring, The Association of Municipalities
Sven Caspersen, Principal of the Aalborg University
Svend Erik Lang, Chairman of the LO/RAR Trade Unions
Richard Byrdal, Director of the DA, the Danish Employers' Association
Poul Lauritsen, Chairman of the Board of Directors, NOVI



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Preface

In 2002 the Digital North Denmark initiated the last round of projects, setting the North Danish lighthouse full alight. A total of 89 projects has been initiated. Just as important, however, are the results and experiences gained by the projects, which make the visions of the Digital North Denmark come true in many fields.

This is rendering the profile of the Lighthouse an even sharper edge than was the case in the previous year. This is also reflected in the prizes awarded to a number of projects, and in particular in a range of technologies made applicable in practice, now coming up in the shape of solutions that could be deployed on a nationwide basis. This goes for example for the industries of building, construction and transport, the health sector, the public administration and the educational sector.

By the end of 2002 the Board is pleased to observe that only two projects had to be terminated before fulfilling their objectives. Compared to the total number of projects, and taking into consideration the inherent elements of innovation and risk, this is a remarkably low rate of cancellation.

During the past year a great effort has been put into communicating the project results, not only on a regional and national level, but also abroad. Within the region the results of the DDN projects has drawn great attention, which has been reflected in a variety of deliberations – and the start of new initiatives – as to how the region can retain and further develop the results once the Digital North Denmark is concluded.

The Board puts great emphasis on creating a permanent effect from the Digital North Denmark, and based on the facts mentioned above we are confidently looking forward to the ast project year of the Digital North Denmark.

Orla Hav
County Mayor
Chairman of the board of the Digital North Denmark



Introduction

The Annual Report of the Digital North Denmark accounts for essential milestones, results and activities in 2002, partly for projects initiated and partly for the experiment in its entirety.

The Annual Report reflects the status of the projects within the main themes from the first four Project Contests and discusses the strategy and results of the most recent Project Contest, in which the Digital North Denmark in early 2002 awarded financial aid to 11 new winner projects.

Moreover an account is made of the communicational – and visibility efforts as to promoting the results and experiences both within the region and outside, also covering activities contributing to the support of the total experiment and the projects initiated.

The last part of the Annual Report is focusing on the economy and the supervision of the projects.

Information on the background, objectives and organisation of the Digital North Denmark is available in the Annual Report for 2000 on the Web-site, where all projects are described and can be monitored on an ongoing basis:

www.thedigitalnorthdenmark.com



Projects Well on their Way to Meet their Goals

By the end of 2002 the Digital North Denmark had initiated 89 projects in 5 project contests over the period from 2000 to 2002, which are distributed as follows:

Winner Projects 2000-2002

Calls for Project Proposals and Themes	Number of projects	Grant mill. €	Project amount mill. €
Call for Project Proposals 2000: IT Industry, IT Infrastructure, Qualification & Education and Digital Administration	44	10,8	50,5
Call for Project Proposals 1/2001: Qualification & Education and E-Democracy	16	3,6	17,8
Call for Project Proposals 2/2001: eHealth	8	3,4	11,6
Call for Project Proposals 3/2001: SMEs in the Global Society	10	2,2	6,6
Call for Project Proposals 4/2002: Arts, and Cultural Experiences and IT in the Network Society	11	1,3	4,2
Totals	89	21,3	90,7

A great element of variation is a significant feature to the circle of players attending the projects of the Digital North Denmark. The vast majority of projects are joint projects, and 60 of these consortium projects count participation from both the public and the private sectors. In 43 of the projects a private enterprise is in charge of the project, and private enterprises are represented in 76 projects.

Another characteristic feature is that to a large extent most of the relatively large projects are drawing on researchers. In this way the Aalborg University contri-

butes to 15 pct. of all projects. However, when compared to the total project amount for these projects (25,9 mill. €), this amounts to almost 30 pct. Adding to this is the follow-up research, which also gives projects the opportunity to draw on special competences.

In 2003 a number of analyses will be conducted to examine the use of IT in the private as well as the public sector. It will e.g. be very interesting if one can detect any crossover effects to business life in cases where the public sector takes the lead in IT development.

■ Themes Overview

Qualification and Education

Within the theme of qualification and education 2 project contests were held in 2000 and 2001, respectively. The focus within this very broad defined theme was on the development of both formal and informal education/-qualifications in relation to numerous and various sectors and target groups.

IT, Pedagogy and Knowledge Sharing

One of the arch stones of the Network Society is the will and the capability of knowledge sharing, which to several projects is quite a challenge on top of the technological challenge. This also goes for the "Pedagogical Application of IT Technology at Grammar-School Level" project, which in 2002 got really going in utilizing the common infrastructure in connection with the IT pedagogical sub projects within each subject, across subjects and across schools. For example cooperation in high-level physics happens via the common conference system across 7 high schools. This is one of the minor subjects where a mutual knowledge sharing will contribute to a better utilisation of resources and a wider educational scope.

IT-Illiterate Adults

For the Digital North Denmark one vision is that the network society should be for everyone, not just ordinary citizens but also for groups of marginalized citizens whom for one reason or another might be facing the threat of even further social exclusion caused by an increasing deployment of IT technology. Over the year part of the projects have been working to make this vision come true.

In the "Break the Isolation" project the experience was made that to a large extent IT can indeed contribute to breaking the isolation and loneliness that is often the condition of mentally afflicted people. Via flexibly organised IT courses the project has made it possible to expand the world of the mentally challenged, where a virtual community involving others sharing the same interests has proved itself as a route to take out of the loneliness – also in the physical world.

Several positive examples have been reported, for example of resumed contact with family and friends, a contact that may have had an anxiety-provoking effect but by using e-mail in the communication as a less direct means of contact, communicating is less stressful. www.brydisolationen.dk

For the relatively large group whom for various reasons have reading difficulties and hence find it hard to benefit from the Internet potentials, the "Speaking Internet Portal" project has introduced a software-based aid in 2002, to be downloaded for free from www.adgangforalle.dk.

This makes it possible to have any Danish text from any home page, e-mail or any other e-texts read aloud. In 2003 the technique is developed to include the options of user-controlled speed and pitch of voice on the text to be read aloud.



Development of the Citizens' IT qualifications

An effort has been made on a lot of frontiers to increase the IT qualifications of the citizens. In 2002 the shared "IT for everyone" project run by the public libraries has educated approx. 7.000 North Danes distributed over the entire region via introductory courses in the use of the Internet. These courses have also drawn on examples from some of the other DDN projects aimed at the citizens in order to demonstrate the potential of the network society.

Specifically in relation to the target group of the senior citizens the "Senior-City-Danmark" project

has been highly successful in the creation of IT clusters, where the EUCNorth in cooperation with the DanAge Association has educated "fiery souls" to take up the tasks as educators and IT instructors for senior citizens in accordance with the motto of "Seniors help seniors".

Adding to the overview of the educations the portal enables an interactive study counsel based on a test of the individual's interests which subsequently results in proposals for relevant educations. Also a utility has been integrated to compare educations, enabling the student following a course of further education to create a more detailed overview of similar routes of educations.

With special regard to the development of qualifications and supplementary training of the unskilled workers, the "Net-Based Self-Evaluation as Guidance" in the www.laesogskriv.nu project has addressed the oftenlacking motivation for supplementary education that is a characteristic of this group. Using a range of self-tests of the individual's reading skills – combined with the success stories of people in the same situation – users are motivated to consider attending the courses offered, eg. the FVU (preparatory adult education).

A virtual portal has been created to work as a "meeting point" across the clusters where eg. private "family rooms" can be created for free for members to communicate freely, exchange photos etc.



Interactive Guiding Methods

In accordance with the new Counselling Reform issued by the Ministry of Education the "Portal for Education in North Denmark" has been collaborating with most of the North Danish labour market and educational facilities to develop the www.uddannelsesnord.dk web site.

Digital Administration

The theme is covering a total of 20 projects within eGovernment, eHealth and eDemocracy. Most projects are operating until the end of 2003, but several of them have already reached a number of milestones and results:

Open Service Oriented IT-Architecture

In line with the recommendations of the most recent whitepaper on IT architecture issued by the National IT and Telecom Agency, the "Digital County Administration" has implemented an open service-oriented IT architecture. The infrastructure of the digital administration based on such an open IT architecture has been established with well defined interfaces, for data and rules/logic to be used across systems and fields of application. Moreover the "Digital County Administration" has not based itself on traditional EDMS (Electronic Document Management System), but on solutions based on open interfaces – XML and SOAP – with the objective of increasing the integration with other-systems including the external systems.

Digital Signature

Several projects have been working on the use of digital signature, and obviously this work has been marked by the fact that not until the end of 2002 was a final clarification reached with a view to a solution model for a national digital signature. Already in 2002 for example, the "Towards the Digital Town Hall" project had made a lot of experience in implementing and using a digital signature in connection with the tax servicing of citizens in the "View Your Own Tax Case" subproject. During 2002 other projects have decided to wait for the national digital signature

to be launched, and instead they have concentrated their efforts on developing more services for the citizens to be used once the national digital signature has been disseminated.

GIS - Geographic Information System

In 2002 several DDN projects have been working with GIS, and they have made great progress. Here the "Active Map of Aalborg" project should be mentioned in particular. The "Active Map of Aalborg" has developed and implemented an interesting IT solution with municipal statistic information intuitively linked to geographic information.

In 2002 things were brought so far that on the www.detaktiveaalborgkort.dk



citizens can see their own property on both road maps and cadastral maps and you can view the number of child care centres, schools and cultural institutions and their localization in the area. And finally – for the first time in Denmark – a line of municipal plan revisions have been digitally published. Also in 2002 the "Digital County administration has launched a virtual

flight over North Denmark, which in a near future will give the citizens completely new potentials for visualizing changes to the landscape.

eDemocracy

On a conceptual level there is a lot of aspects to democracy, and this is reflected in some of the DDN-projects. For example democracy is also about transparency in the public administration, and this is exactly what the "Openness in the Digital Administration & the Press as a Mediator within the Democracy" project is addressing. The result of the work with open mail lists in the County of North Jutland administration in 2002 was published in a report in January 2003, and it can be downloaded on www.dicar.dk/ddn/Rapport_post-liste200103.doc

Another approach to the aspects of democracy is that of the "ABDD portal project". This project is not only about local politics and democracy; it is just as much about democracy and participation in decision-making – both for pupils and parents in everyday life at school. At 5 elementary schools in Aabybro and in a 10th class in Hjørring the project has established a virtual meeting point for each school and its local community. An example of this is the central school of Vedsted in the municipality of Aabybro:

Adding to pupils, parents and teachers, also the public administration, leisure time/recreational organisations etc. have been involved, and in broad terms the new developed portal also serves as a facilitator of dialogue in the local community.

The project has successfully developed and implemented this solution, and even more interesting, it has identified the

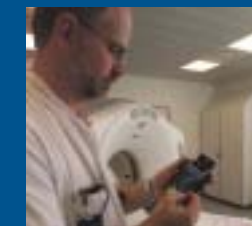
technical, organisational and cultural conditions of significance in establishing such a virtual meeting point.



eHealth

New Potentials in Image Processing

The system of the "Image and Data Management" was successfully developed and implemented at the Hospital of Aalborg in 6 months. The "EasyViz" system enables access to digital X-ray photos in up to 4D via a browser or a handheld unit (eg. PDA), and it enables the simulating of X-ray photos of CT images.



Moreover the system enables doctors, surgeons and nurses to retrieve all the patient information needed from one and the same location. As a bonus the handling and management of images has become safer and more economical by far. At the end of 2002 the system was close to being commissioned, and the applications of the system will subsequently be extended.

Online Appointment Booking etc.

The "On-line Appointment Booking and Extension of Prescriptions" project has given a great deal of citizens the opportunity to book appointments – and to request an extension of prescriptions – with their own general practicing doctor via the Internet. Obviously the dissemination of this service has been depending on the participation and collaboration of both various suppliers of medical systems and the GPs. By the end of 2002 approx. 50% of all health centres had the opportunity to join the system. The project is carried on and will be integrated in the new public health portal, and in this way the project will keep on running on both a regional and national level.

Collaborations Across the Health Sector

Collaborations across the Health Sector poses a special challenge when it comes to the art of communication. One project that has been dealing with this aspect is the "Exchange of Information within the Health Care Sector". Here the Aalborg Municipality has been collaborating with the County Hospital and the GPs to establish an electronically enabled communication for use in the treatment and care of the senior citizens of the municipality.

Even though this project is not working with XML within the project period

(however, prepared for it), it clearly demonstrates the potentials offered by electronic communication in rendering a both better and more efficient holistically oriented service to the citizens. And this type of cross-organisational collaboration is just what is presented via the national initiative established in 2003 concerning the "infostructure base".

IT Industry

The main theme of IT Industry has held two calls for proposals in 2000 and 2001, respectively, with the latter having a special focus on small and medium-sized enterprises' use of information technology, including the migration to knowledge economy and network society.

E-business Got its Breakthrough in North Denmark

Skagenfood A/S was one of the winners in the project contest no. 3/2001. The company sells subscriptions to "fresh" fish delivered at your door on a fixed schedule. All communication with customers can be performed electronically, and on this background Skagenfood A/S was awarded the e-Business prize in 2002. A characteristic of their product is that the time from discharging the fish from the fishing vessel to delivery at the customer's location is cut down to approximately half the normal time of this process.

For 2 years the County of North Jutland has now been working with the "e-Business Between Private Enterprises and the County of North Jutland" project. The project met a range of its "technical" objectives in 2001, but it still remained to establish arrangements and agreements with suppliers and vendors. In 2002 the work was carried on with both the purchase system and the dissemination of the electronic business, while also working to make e-business both easier and cheaper to small suppliers. Here the support of XLM and e-invoice are important new technologies.

IT in the Building and Construction Sector

Digital North Denmark runs 3 projects with a focus on the building and construction sector. These are "The Digital Building Process", "Knowledge Sharing in Enterprises and Networks" and "The Mobile Employee".



Where "The Digital Building Process" has focused on the general management and coordination between the parties in construction projects, the two other projects have been focusing on the professional fields of constructions, e.g. within heating & sanitary engineering and painting and the project management in these fields – regarding both the content and the professional level.

"Knowledge Sharing in Enterprises and Networks" has enabled a builder or a master artisan to use an IT system in coordinating his tasks and to allocate tasks to his men. The same way he can change the allocation of tasks if convenient.

The current task status can be retrieved via the mobile phone.

First and foremost "The Mobile Employee" contains a recording system meaning that all time recordings and all items consumed at a customer's location are recorded via a barcode system and a mobile phone. The company Byggeriets IT A/S has shown great interest in entering a formal collaboration with NetMill, the company behind "The Mobile Employee", noting that at long last, for the first time in 20 years, a usable solution for digital recording and data collection has been launched within the building and construction industry.

The combination of these three projects is anticipated to be a heavy booster to the productivity and application of IT within the building and construction sector. The only hurdle remaining is to commercialise the project, and hence the capability of the companies to convert the project into a proper business strategy.

The North Denmark Transport Sector On Its Way

The 2 projects "Eurotrans-north.com" and "Transport and Logistics Solutions for E-Business" has focused on two different fields of the transport sector. In 2002 contact has been made between projects with a view to obtain large-scale operation advantages by linking the sea and land based transportation, but so far the results required have not turned up.

"Transport and Logistics Solutions for E-Business" successfully got its portal marketed to haulage contractors and can now report of approximately 20.000 hits a week on the www.transonline.dk portal. 242 haulage contractors have made their bid with transportation capacity, and they

have all reported of incoming orders. In early 2003 a heavy marketing campaign will be targeted at the demand sector of the transportation market, so not until next year can a real appraisal be made of the combined effect on the transportation sector.

The Agricultural Sector Demonstrates Great IT Maturity

Four projects are aimed at the agricultural sector. Three of these are within the theme of IT industrial development and one is within the theme of Qualification and Education. The Agricultural Society of Aalborg County has finalised the construction of its portal, www.agriworld.dk and by doing so a substantial part of its counselling has been migrated to the Web. In nine months the daily number of visitors on the portal has increased from 59 to 258.

On an organisational level the Agricultural Society has managed to train almost all consultants in using the portal, and contributions are demanded from everyone in the way of newsletters,

articles etc. This has been a significant factor in creating "value" for visitors, and in turn it has created a base for the sale of commercial advertising on the portal. So the Agricultural Society expects the portal to be gradually self-financing. Over the past year the "Agricultural Net" project has replaced the executive project manager, which has caused a delay. However, the project is still expected to be completed, and this will offer the subscribing farmers a new way of collecting and processing data from cattle farming.

The "Knowledge Building Using Virtual Visualised Network Collaborations" will use cell phones in the field to collect data on plant growing and make this information and analyses available to a larger circle of farmers.

In this way DDN projects helps farmers to get counsel and assistance in the production of livestock and crops and in administrative functions.

SMEs in Digital North Denmark

Several projects are counting a range of small and medium sized enterprises among their participants – e.g. in courses or as testing enterprises.

The "VUR-IKON" project has been working with the IT qualifications of the enterprises in 3 fields – counselling, network groups and courses for employees. Geographically the project has been defined to the 9 northernmost municipalities gathered in the VUR organisation (Development Council of Vendsyssel). On completion of the courses the participants will be better prepared to create and implement an IT strategy.

This way the VUR-IKON project has run 63 courses during the autumn of 2002, and a similar number is anticipated for 2003. Until now a total of approx. 40 enterprises have benefited from this boost in IT qualifications.

Geographically the "e-Business in the Aalborg Region" project is targeting the 12 municipalities entering this collaboration with the Municipality of Aalborg. With this project around 30 enterprises are expected to gain a substantially rise in qualification with a view to business development via a strategic application of IT technology. Just as in the VUR-IKON project the commitment is based on practical and relevant training followed up by support and counselling assistance. So far 8 enterprises have embarked on this course of development.

A substantial increase in the application of IT in small and medium sized enterprises is also on the agenda in the projects of "The Digital Chamber of Commerce", "Knowledge Sharing in Enterprises and Networks" and "The Mobile Employee". The full impact of those projects is however not expected to occur until 2003.



IT Infrastructure

The projects within the theme of IT Infrastructure are widely varied in their contents and objectives, but initially they covered the objects as laid down in the strategy. Both the "TV2-North Digital" project and the "PMBS" project are based on wireless technologies, while the "Bit Wagon" is more conventional "copper" (ADSL) based. Finally the "Net Forum of North Denmark" has placed the IT infrastructure on the political agenda, thereby ensuring a range of permanent effects of the Digital North Denmark.

TV2-North Digital – A Global Leading Position

The largest project within the theme of IT infrastructure is that of "TV2 Nord Digital". As planned the project managed to produce the first digital broadcasts in November 2002, and has since been broadcasting on an ongoing basis.

Two characteristics apply to this project: One is the technique of transmission,

which is based on terrestrial (ground based masts), digital transmissions; the second is the applications on the set-top box, which is based on MHP. While MHP is the platform, which both Canal Digital and Viasat have committed themselves to use in 3-5 years, TV2-Nord goes solo in using a terrestrial digital broadcasting net in Denmark. In combining the MHP platform with a terrestrial digital broadcasting network, TV2-Nord Digital has in practice obtained a "global leading position".

Using analogue broadcasting technique the present masts can handle 4 channels, but currently one of those four channels is reserved for digital experiments – including TV2-North Digital. Today using the digital technique the TV2-North is broadcasting 4 channels (DR1, DR2, TV2 and TV2-North Digital) on the same frequency band that could alternatively be used for one analogue channel. This is why a digital broadcasting network is substantially cheaper to run compared to an analogue network.

Moreover TV2-North plans on testing whether the existing capacity can carry 5 channels simultaneously, which again will reduce the costs per channel, and the project hopes for the opportunity to test the program broadcasts via a cable TV facility.

TV2-North's current permission to broadcast runs until 15.9.2003, upon which it must be extended by the National IT and Telecom Agency. An extension of the broadcasting permission is of substantial importance to the test results that can be achieved by the project in 2003.

The "IT Infrastructure" on the Political Agenda

As planned the "Netforum and KMD Netbroker of North Denmark" have prepared a strategy and developing plan for the region of North Denmark. In the first place the project has created a tool that is capable of generating an IT infrastructure on the basis of GIS information. The project set up some developing scenarios and is heavily arguing that the most functional development is either to follow

a "Fibre-optics cable to the household" or a "Fibre-optics cable for all" strategy.

Over the past year the project has initiated similar work in other regions and has taken the initiative to establish the organisation of "West Denmark Net Forum". This organisation includes several organisations of Jutland and Fuenen rendering the Netforum of North Denmark the platform of similar work in other regions.

In 2002 the Netforum of North Denmark held a conference with 110 participants, consisting of IT managers, consultants and politicians. Exactly this wide support from politicians and IT managers from the public sector proves that the "IT infrastructure" now makes part of most of the municipal board's IT strategies. This was further strengthened in 2002 when the 12 municipalities within the region of Aalborg collaboration asked the Netforum of North Denmark to prepare a plan for a linking of the municipalities in terms of network.



The Follow-up Research

The framework, tasks and organisation of the follow-up research at the Aalborg University was laid down in 2001. So in early 2002 all fields of the follow-up research were covered by associating 5 Ph.D. students, 1 research assistant and 6 senior research associates with a total resource consumption of 9 Ph.D. full time equivalents. Moreover the follow-up research group has been supplemented with 2 Ph.D. students who selected the DDN as their field of research, including for example Digital TV. These resources are financed solely by the Aalborg University or via other external sources of financing.

Like the Digital North Denmark, the follow-up research is characterised by collaboration across subjects and by network collaboration, both across faculties and with relevant players in the region, obviously to a wide extent including the project partners of the Digital North Denmark.

As part of the research group's work a range of activities are completed, for example in the way of steering group meetings, research seminars and research conferences. The follow-up research section held an international research seminar on November 21st-22nd 2002

in Aalborg, where the main theme was "ICT-development at the Regional Level" with a range of contributions including: "Regional Innovation Systems, Clusters and the Knowledge Economy". Part of the research seminar was arranged in thematic workshops related to the main themes of the DDN with the participation of researchers and project partners.

Publications and activities of the follow-up research is available on www.hum.auc.dk/ddn



New Projects 2002 – The last Project Contest in Digital North Denmark

■ Art and Culture in the Network Society

As with the earlier 3 calls for proposals, the last project contest had a distinct focus on one defined theme to fill into the total experiment on the potentials of the network society. Based on an assessment of the winner projects of the very first project contest in 2000 it was determined that the field of Art and Culture were not adequately covered, so the field was allocated a separate call for proposals in 2001/2002 – The first call included only the project of the development and establishing of a Cultural Search Database of North Denmark.

Objectives and Strategy

The focus of this call was on new offers of digital art and culture. One of the objectives was to facilitate and inspire to a further development of the cultural digital production of contents. Not only the quantitative dissemination of the information technology in terms of larger numbers of users and broadband connections, but also the qualitative use of the technology, the aspect of content with innovation of products and services have been a vital part of the experiment with the first network society of Denmark. Here it was essential to focus on the development of offers and experiences, that could be attractive to citizens, tourists, students deciding on an education and the industrial sector.

The call for proposals requested projects within two fields of effort:

- Digital Production of Art and Culture
- Digital Mediation of Art and Culture

The field of *Digital Production of Art and Culture* had its focus on the contents production on the Internet and other digital media. It was an essential demand that the projects could make innovative use of the digital potential in using to use multimedia, interactivity and communication and in turn use this to create new artistic ways of expression. Digital projects were in demand within all arts and their hybrids in a mixture of sound, graphics, text, moving pictures and interaction. Generally the projects should give a new content and new experiments, extend bounds, create fusions of genres within art and culture while making it all available to the largest possible number of citizens within the target group.

In relation to the field of *Digital Mediation of Art and Culture* projects were in demand that were broadly aimed or narrowly focused on certain target groups and capable of utilising the potential of digitising the presentation of art and culture. The call for proposals also welcomed projects collaborating across institutions, sectors and environment, making a more holistic approach to offers of culture and experience available, while making it more accessible and comprehensible to the users. Moreover proposals were desired for the development of E-Learning programmes as an extension of more conventional ways of introduction to cultural themes and experiences.

Results – Winner Projects

Economic overview Call for Proposals 4/2001

	Applications			Granted		
	Number of projects	Support (mill. €)	Project Amount (mill. €.)	Number of projects	Support (mill. €)	Project Amount (mill. €)
Total:	19	2.8	8.5	11	1.5	4.6

The framework amount of 1.6 mill. € was distributed with 1.5 mill. € on 11 projects, of which 1 project was granted a smaller amount of support than applied for. The entire framework amount was not spent owing to the fact that apart from the winner projects, applications did not adequately meet the established criteria for grants. The smallest support amount was 38,387 €, the largest amount was 279,488 € and the average amount was almost 134,693 €. As in the other winner projects in previous project contests, this call for proposals, too, counts project consortiums with the joint participation from both the public and the private sector. This goes for all 11 winning projects. Private enterprises are in charge of the project for a total of 7 winner projects while local governments/institutions of the region are in charge of the remaining 4 projects.

In their combination the project winners cover both fields of the main theme. Some projects focus on more than one field. The fields are covered by 4 of the projects approved having a special focus on the field of "Digital Production of Art and Culture" and 7 of the projects approved focusing on the field of "Digital Mediation of Art and Culture". The field of "Digital Production of Art

and Culture" counts projects that are either creating new artistic ways of expression and in turn new experiences for the users for example by using 3Dsound, or they find innovative ways of combining the cultural offers from various sectors using interactive narrative techniques. Just to mention the "Virtual Digital Sound Experiences" project, creating new experiences to the users in collaboration between composers, musicians and sound technicians/engineers. 3D sound is applied in the project to optimise the experience of cultural offers by adding an extra dimension to the visual expression eg. in the presentation of art/culture, natural experiences, literature etc.; all the while new unique audio-based genres of art are created, too.

The field of "Digital Mediation of Art and Culture" represents a great number of various proposals for the extension and enhancement of experiences and services using digital media. This includes projects that, apart from creating portals, are adding new cultural experiences and information using eg. web cam and video streaming to go behind the scenes and present the audiovisual story of the creation of the cultural activities.

On the field of museums the "The Virtual Cultural Tour" project must be classified as a grand scale project with 22 culture-historical museums and 6 art galleries covering the entire North Denmark teaming up to create virtual cultural experiences across geographic and institutional boundaries. This is done using an interactive narrative technique enabling a new and enhanced way of presentation aimed at specific target groups. This in turn is posing a great potential for eg. the educational sector.

Moreover projects are included that are utilising experience gained from previous DDN projects and continue the technological innovation of their ideas, for example the project of "Personal Digital Museum Presentation" to utilise and further develop parts of

the technique of the technique from the "Personalized Mobile Broadband Services" project.

Generally these are projects involving a great and varied number of players – not only from the private and public sector, it also creates new collaborations among players of the cultural contents industry, for example creative artists, cultural institutions, the tourist industry and the IT and multimedia industry. Worth mentioning here is the "Cumedin" project, which is exactly aiming to act as a catalyst for bridging between cultural life, industrial life and public/regional institutions with a focus on the production of contents for e.g. the Internet, cell phone telephony and digital TV.



Communications

IAs with the previous two years, 2002 saw a great interest in the Digital North Denmark on both a national and International scale. In a variety of contexts all parties in the organisation of Digital North Denmark have been involved in presentation activities.

■ Presentations and Calls

Over the year the Lighthouse staff held a total of 59 presentations at visits/-arrangements in the region, or as summoned presentations outside of the region. 2002 saw an increasing interest from students from educational facilities. For example a group of students from South Denmark University paid a visit to the Lighthouse Centre.

Adding to this a long range of projects have to a great extent been contributing

to the presentation and dissemination of the experiences created in individual projects – and at international conferences, too, they have made their contribution to profiling both the Digital North Denmark and the individual projects at the EISCO conference in 2002 (European Society Information Conference), and at the IST-conference in Copenhagen.

The interest has partly been concentrating on the Digital North Denmark as a regional development programme, among others at a research seminar at RISØ on regional/ technological visions and at the "Citizens Relationship Management – CRM Government 2002" conference in Amsterdam – and partly to a great extent on the specific solutions and the experience made within all themes.

■ Web Site

Websites in a Danish and English version have been extended on an ongoing basis, and towards the end of 2002 a redesign was prepared including features like index entries and links to the projects' own Web sites.

In 2002 the Danish Website hosted a total of 19,466 unique visits, and the English version a total of 18,642 unique visits. The latter figure is an increase of almost 5,000 from 2001, which emphasizes an increased international attention to the project.

■ Special Activities and Initiatives

The following examples of initiatives aiming to support and supplement the total experiment and the projects initiated in various ways could be mentioned:

You and IT – Technology Festival for the Young

For 4 days in February 2002 the Digital North Denmark held a technology festival for young people in collaboration with Aalborg Congress & Culture Centre and a range of local players within the Educational and Cultural area. The arrangement was targeting the entire region of North Denmark and under the four headings of Entertainment, Challenge, Education and Future, it demonstrated what North Denmark could offer on the IT front to the target group of children and teenagers and, as a secondary target group, teachers, pedagogues and parents. The Technology Festival hosted a total of 4,500 visitors from the entire region.

DDN-mapping

On the shared request from the Digital North Denmark, the Ministry of Science, Technology and Innovation and the Centre for the Network Society, the Oxford Research consultancy performed a mapping of all DDN projects in the spring of 2002. Among other facts the report indicates that private enterprises are involved in 76 of the DDN projects. In 43 projects private enterprises are collaborating with the public sector. 5 North Danish municipalities are involved in at least 4 projects. 20 projects are including mobile communication and wireless technology as a central element in the application of technology. This and further information can be found in their report, which can be downloaded from www.thedigitalnorthdenmark.com

Archiving in Connection with Digital Administration

One problem faced by all public authorities is that of archiving. This goes partly for the filing and retrieving of vital information for the administrations, partly for the retainment of the digital cultural heritage. This is posing a very urgent problem, namely how to secure a reasonable way of filing both from a purely legal and not least a historical point of view? This is the reason for the Digital North Denmark's support in the spring of 2002 to a survey of the problems of the digital administration in digital archiving and retrieval. The City Archives of Aalborg is in charge of the survey assisted by the municipalities of Aalborg, Frederikshavn, Hals and Nibe. The final report on this is expected to be available in mid 2003.



Partners in Projects 6FP

In connection with the launch of the EU's 6th Framework Program for research and technological development projects the Digital North Denmark was co-arranger in collaboration with the North Denmark EU-office, the Municipality of Aalborg and the County of North Jutland on a two-day conference and workshop in Aalborg in November 2002. The arrangement aimed to facilitate the search for partners and the generating of project concepts, and it hosted almost 200 participants from 17 different countries.

Internal Seminar for Project Partners

In order to maintain and extend the formation of networks across individual projects, that was initiated on the seminar the previous year, the Lighthouse Centre held a two-day seminar for project partners in May 2002. Adding to presentations of common interest on eg. effect measuring, the seminar was divided in a number of workshops, giving the project partners an opportunity to work in-depth with various problems within the main themes and to share experience and make new contacts and partnerships.

Administration and Supervision of Projects

The entire case management related to the allocation of project support on the levels of both finance and contents have been accounted for in the Annual Report 2001.

The administration of subsidies in the way of quarterly budgets, accounts and reports of contents from the projects and the use of the case management is still running as intended. In 2002 the number of operative projects increased substantially, and the introduction of regular reminding procedures for the delivery of quarterly reports was called for to keep the time limits as decided.

In parallel to this formal audit of the projects, a constructive dialogue is taking place between the Lighthouse Centre and project managers concerning the progress and any issues that may arise in the course of the project. Moreover the Lighthouse Centre made a round of calls to all operative projects during 2002 in order to get a personal impression of the status of each project

and to have a demonstration of the solutions developed.

Annual Accounts, Accountant Certified

Of a total of 89 project winners 81 projects had their annual accounts audited. Compared to the previous year only few projects gave rise to auditor's comments. This is owing to the improved experience gained by the projects in their submission of accounts, and partly to any errors and shortcomings being identified prior to the auditor's report. On the other hand, this has led to adjustments to the payments of project grants for the 1st quarter of 2003 for some projects.



All Projects

Main Theme	Number	No Funds Received	Funds Received		
			No comments	Comments	No accounts Received
Qualification & Education 2)	44	4 6)	38	1	1 1)
Digital Administration 3)	20	1	17	1	1 1)
IT Industry 4)	21	1 7)	18	2	0
IT infrastructure 5)	4	1	2	1	0
	89	6	76	5	2

1) Auditor's report not yet received owing to circumstances known to the Digital North Denmark

2) Covering project winners from call for proposals 2000 – 2001 and call for proposals concerning Art and Culture 2002

3) Covering project winners from call for proposals 2000 – 2001

4) Covering project winners from call for proposals 2000 – 2001

5) Covering project winners from call for proposals 2000

6) Including 3 projects concluded in 2001

7) Concluded in 2001

The types of auditor's comments can be categorised in 3:

- a) Overhead expenses for private persons have been calculated as 20% of the item of expenditure of "Wages and Travelling", and not as actual costs.
- b) Expenses paid prior to the initial date of the period of grants were included in the accounts.
- c) Missing acceptance in advance from the Lighthouse Centre as to the application of an average hourly rate.

All conditions mentioned in the comments were subsequently remedied, and adjustments were made in payments of project grants covering the 1. quarter of 2003.

Annual Accounts 2002

The Annual Accounts are partly covering administrative expenditures for the operation and activities of the Lighthouse Centre, partly the accounts of the funds for project grants and their use for projects eligible for support including the distribution on item of expenditure.

Administration

The Lighthouse Centre runs a total budget of 4 mill. € covering 4 fiscal years (2000-2003).

The allocated amount is funded by the Ministry of Science, Technology and Innovation, the County of North Jutland and the 27 municipalities of North Denmark with one third each. The county and the municipalities each pay their share of 336,732 € once every year. Payments from the Ministry of Science are quarterly and adjusted to the budgeted expenditure.

Administrative Accounts 2002

Income

The County	336,732.08 €
The State	336,732.08 €
Municipalities of North Denmark	353,247.58 €
Total Income	1,026,711.74 €

Expenditure

Secretariat

Staff	333,833.12 €
Meetings	33,969.44 €
Real property	43,445.35 €
Initial expenditure (furniture etc.)	3,878.60 €
Training/Courses	4,917.64 €
Office expenses	17,879.15 €
Marketing and Presentation	168,271.00 €
Computer equipment	32,998.96 €
Consultant assistance	3,031.43 €
Other	1,464.54 €
Total Secretariat	643,689.22 €

Conferences

Dig & IT	12,364.01 €
IT Health Conference	4,962.62 €
Other	1,357.82 €
Total Conferences	18,684.46 €

Network Groups

Meetings	29,731.42 €
Consultant assistance	8,448.29 €
Other	132.67 €
Total Network Groups	38,312.39 €

Pool for Special Activities / Projects

IT Calendar	4,040.78 €
DDN Mapping	40,407.85 €
Special Activities	23,705.94 €
Pool for Special Activities / Projects total	68,154.57 €

Follow-up Research	364,074.73 €
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Total Expenditure	1,132,915.37 €
Amount carried forward to 2003	-106,203.63 €

Administrative Funds Carried Forward to Next Fiscal Year

Euro	2000	2001	2002	2003
Surplus/Deficit	556,338.77	195,731.18	-106,203.63	
Carried forward from previous fiscal year		556,338.77	195,731.18	-106,203.63
Accumulated Transfer		556,338.77	752,069.95	645,866.32

Administrative Accounts

Entire Period. 1,000 €, 2 decimals

	2000		2001		2002		2003	Total
	Budget	Accounts	Budget	Accounts	Budget	Accounts	Budget	Budget/ Accounts
Income								
- The State	336.73	336.73	336.73	336.73	336.73	336.73	336.73	1,346.92
- Other	673.46	673.46	673.46	689.63	673.46	689.63	673.46	2,726.18
Expenditure	538.77	453.91	740.81	831.05	1,279.58	1,132.77	1,655.37	4,073.10
Result/balance	471.42	556.28	269.38	195.31	-269.39	-106.41	-645.18	0.00

■ Project Accounts

The 22.9 mill. € grant from the Ministry of Science is distributed on a general level with 0.4 mill. € for the assessment of the total experiment, max. 1.3 mill. € for administration, including the follow-up research, and max. 21.1 mill. € for project grants.

At the end of 2002 the allocated amount for project funding of 21.1 mill. € was allocated as follows:

The Spending of Funds For Project Support

Project accounts, 1,000 €, 1 dec.

	2000	2001	2002	2003	Total
Promised amount 1)	10,775.4	9,428.5	1,616.3	0.0	
Actual granted promised amount 2)	10,021.1	9,051.4	1,454.7		20,527.2
Unused promised amount	754.3	377.1	161.6		
Payment limit	10,775.4	20,203.9	16,324.8		
Paid	0.0	5,495.4	8,243.2		13,738.6
Balance by the end of the year	10,775.4	14,708.5	8,081.6		

1) According to the framework amounts as per agreement between the Digital North Denmark and the Ministry of Science. The promised amount for 2002 was subsequently changed owing to the reclaimed unused funds and funds returned, and an amount of 1.6 mill. € was accepted.

2) Total amount promised by the County of North Jutland to the projects on a total scale in the current year with a deduction of unused promised amounts, partly owing to projects that were not launched, and partly owing to reduced projects.

The Relationship between the Ministry of Science and the Digital North Denmark

The actual expenditures of the DDN compared to ongoing payments from the Ministry of Science. 1,000 €, 1 decimal

	2001		2002		Total
	Projects	Admin.	Projects	Admin.	
Actual Payments to projects	5,495.5	336.7	8,243.2	336.7	14,412.1
Payment in advance from the Ministry of Science	8,189.3	336.7	6,775.0	336.7	15,637.7
Difference to be adjusted on 1st payment the fiscal year	-2,693.8	0.0	1,468.2	0.0	-1,225.6

Of the total 20.5 mill. €, granted by the end of 2002 on the basis of the project contests completed in 2000, 2001 and 2002, an amount of 8.2 mill. € were paid

in grants to projects in 2002. The project support was distributed on the items of expenditure as follows:

Project Expenditures 2002 Distributed on Items of Expenditure

	€	%
Staff costs	4,414,485.33	53.52
Overhead expenses	582,261.13	7.06
Voendors / Consultants	1,215,008.31	14.73
Project specific hardware and software	2,309,390.60	28.00
Travelling	101,268.98	1.23
Presentation and evaluation	151,073.24	1.83
Auditing	996.59	0.01
Sundry	199,904.21	2.42
Retained amount (10% of max. grant)	-435,612.54	-5.28
Own share of expenses (Costs exceeding max. grant)	-290,439.54	-3.52
	8,248,336.30	100.00

Accounts are in accordance with the bookkeeping of the county of North Jutland.

The County of North Jutland.
The Finance and Accounts dept.
June 12th. 2003


Anders Boje

Digital North Denmark.
The Lighthouse Centre.
June 12th. 2003


Nanna Skovrup

Auditor's Report

We have audited Digital North Denmark's annual accounts for the year 2002 presented by the management.

The management is responsible for the annual accounts. Our responsibility is to express our conclusion concerning the annual accounts.

The Audit Performed

We have performed our audit in accordance with generally approved public audit standards, the provisions in the regulations for audits of the county of North Denmark, and the Contract made between the County of North Jutland and the Ministry of IT and Research on February 9th. 2001, and in accordance with generally approved public audit

Aalborg, June 17th. 2003

Kommunernes revision


Anders Øster
Chief Auditor



Keld B Kristensen
Managing Auditor

standards to obtain reasonable assurance that the annual accounts are free from considerable misstatements, discrepancies or short-comings. Based on an evaluation of materiality and risk, we have tested the basis and the documentation for the amounts and disclosures in the annual accounts.

Our audit has not given rise to any reservations.

Conclusion

In our opinion, the annual accounts have been properly prepared in accordance with the bookkeeping and policies of accounting as laid out in the contract made between the County of North Jutland and the Ministry of IT and Research.



■ Projects 2002 Overview

Call for Proposals 4/2001-2002

Projects Title:	Kultnord - a Portal Presenting New Cultural Experiences on the Internet
Organisation in Charge:	Nordjyllands Mediecenter
Grant:	38,387 €
Project Amount:	116,139 €
Project Abstract:	The Kultnord is focusing on the culture to be experienced on location, and it presents the interesting side stories to the cultural events using live video, audio and texts. The Kultnord will be an experience in its own right but it will not draw the focus from the existing culture.
Project Title:	The Virtual Cultural Tour
Organisation in Charge:	The County of North Jutland, Cultural Dept.
Grant:	235,712 €
Project Amount:	707,137 €
Project Abstract:	The commitment of the project is the presentation of the history, culture and distinctive features of the entire region in the conventional media as well as new IT enabled types of media. Via professional collaboration, exhibitions and interactive Websites related conditions are rendered intelligible in time, subjects, history and development to the local citizen and tourists across the municipalities of the country. With a focus on material already remaining with the museums of the county 5 thematic routes will be prepared through the world of the museums in North Denmark.

Project Title:	The Public Knowledge Room of the Museums
Organisation in Charge:	DiaPhoni A/S
Grant:	45,796 €
Project Amount:	137,387 €
Project Abstract:	Using the Internet the project intends to take three museums of the region to the leading edge in the utilisation of IT as a facilitator of their content between the museums, the schools, the pupils and the parents. We want to break the mould of a linear presentational structure that is characterising today's relationship between museums and schools.
Project Title:	The Digital Art School
Organisation in Charge:	Nordjyllands Kunstmuseum
Grant:	116,554 €
Project Amount:	349,663 €
Project Abstract:	A digital portal for the presentation of art with a focus in the permanent collection of Nordjyllands Kunstmuseum. Apart from providing an overview of the works of the museum, the portal provide tools for the users to better understand modern art. This can be achieved in a digital art school with digital images and video.

Project Title:	Personal Digital Museum Presentation (PDM)
Grant:	89,795 €
Project Amount:	269,386 €
Project Abstract:	The project presents items and stories in museum exhibitions via Personal Digital Assistants and wireless network transmissions, targeted directly at the visitors of the museum. State of the art technology and new methods of presentation will allow museums to make a still larger amount of knowledge available to citizens.
Project Title:	Mobile G@tekeeper
Organisation in Charge:	Mobital.net A/S
Grant:	279,488 €
Project Amount:	845,198 €
Project Abstract:	Denmark is to be a leading IT nation. The foundation for this is a network society with smooth and unobstructed transfer of communication and knowledge sharing, and with electronic networks connecting people in new ways. This requires the development of a hi-tech infrastructure, services, content – and IT literate citizens who are prepared to utilize the potentials of information technology. MobileG@tekeeper is the tool for North Denmark to direct a cultural content to the right place at the right time with one of the information technology's new features, namely pullpush information, to the media you desire to use.

Project Title:	Cumedin
Organisation in Charge:	Cumedin
Grant:	67,346 €
Project Amount:	202,039 €
Project Abstract:	Taking a regional cultural agreement (between the County of North Jutland, the Municipality of Aalborg and the Ministry of Culture) as it's point of reference, the general purpose of the Cumedin project is to establish a commercial communication, consulting and service facility in the cross field of culture, industry and commerce. Its focus will be the production of content for the new media, or the so called "enabling technologies" such as visualization, graphics, mixing, navigating and digital media management.
Project Title:	Art Guide for the County of North Jutland
Organisation in Charge:	Det nordjyske Landsbibliotek
Grant:	52,800 €
Projektsum	158,399 €
Project Abstract:	The goal of the project is to create a digital art guide for the County of North Jutland and to optimize the familiarity with art in the region and new ways of collaboration between institutions and artists. The project is also aimed at the field of children culture.

Project Title:	Art and nature - Digital Presentation of Art and Nature in North Denmark
Organisation in Charge:	Dafolo Marketing A/S
Grant:	202,039 €
Project Amount:	756,974 €
Project Abstract:	Providers of art and nature experiences in North Denmark should be able to offer the digitized presentation of these experiences to citizens, tourists, schools, institutions and industrial life. The project is Internet based, however, it involves other media like TV, interactive video and DVD.

Project Title:	Virtual Digital Sound Experiences
Organisation in Charge:	The Aalborg Symphony Orchestra
Grant:	203,386 €
Project Amount:	610,159 €
Project Abstract:	Based on an entirely unique audio-technology developed in North Denmark, the purpose of the project is to produce a range of experiences with sound as its common and central expression. Users will meet the results in existing physical locations (the art and cultural facilities of North Denmark) as well as in virtual spaces.

Project Title:	ZOOMedia
Organisation in Charge:	Aalborg ZOO
Grant:	148,162 €
Project Amount:	444,486 €
Project Abstract:	ZooMedia's is a contribution to the enhanced presentation of exotic species, their habitats and nature using a platform that will convey to the visitor a cultural experience, a knowledge of the cycles and vulnerability of Nature, and an understanding of the importance of taking the interaction between man, nature and fauna in consideration.

■ Payments to Each Project 2002 Overview

Competence and Education

	€		
Visual Handicap and the Digital North Denmark	19,305.48	GIS in the School Curriculum	4,887.84
Information Handling Competence and Knowledge Management in Small and Medium-Sized Enterprises (SME)	-382.93	Network Society Right at Hand	17,779.87
Break the Isolation	64,371.05	SIM-TOOLS Pedagogical Application-Construction of Simulation Games	67,760.47
Digital Villages in North Denmark	129,935.07	IKT Qualifying and Virtual Learning within the SOSU Education	4,585.85
From Classroom to Project Room with IKT	27,121.76	A Portal for Education in North Denmark	238,599.47
The Virtual Centre for Qualification Development of the Northern Region	46,316.91	Net-Based Self-Evaluation as Guidance	31,694.30
An Interactive Portal for Citizens, Associations and Industry	15,825.98	E-learning - Distance Teaching of Adults with lack reading and writing skills	53,819.60
PEITU - Exchanging Pedagogical Experience with IT in Education	-9,031.96	IT Control of Amenities for the Disabled	22,170.57
The Digital Village	1,741.90	SeniorCityDenmark	34,959.21
Using E-Learning for Implementing Electronic Patient Case Sheets	0.00	The Municipal Senior Citizen Council Network	14,653.73
A Speaking Internet Portal www.adgangforalle.dk	46,533.40	Kultnord - a Portal Presenting New Cultural Experiences on the Internet	34,548.71
The ABM Cultural Database	11,182.16	The Virtual Cultural Tour	14,693.62
Qualification and Quality Development in IT Enterprises	47,547.14	The Public Knowledge Room of the Museum	14,945.25
New Ways of Learning and IT Based Teaching	73,485.98	The Digital Art School	58,935.07
IT for Everyone - Introductions to the Internet for At Least 10.000 North Denmark Citizens	14,753.48	Art Guide for The County of North Jutland	12,150.08
PC-Art in the Primary School	1,403.05	Art and Nature - Digital Presentation of Art and Nature in North Denmark	53,466.86
Standard Model for the Planning of IT Based Educational Courses (NIS Educational Model)	18,322.58	Virtual Digital Sound Experiences	59,575.65
The IT Village Package	30,329.60	ZOOMedia	44,655.48
AgroVidenNet (AgroKnowledgeNet)	8,368.78	Personal Digital Museum Presentation (PDM)	9,877.47
Net High Schools in North Denmark	102,485.85	Cumedin	60,611.77
Virtual Learning Environments and Learning Methods (the ViLL project) .	210,841.74	Mobile G@tekeeper	152,015.45
Face to Face	41,037.30		
Pedagogical Application of IT Technology at Grammar-School Level ..	78,811.78		
		Total Qualification and Education	1,986,692.42

IT-Industrial Development. E-Business and IT Framework Condition

	€
Transport and Logistics Solutions for E-Business	35,438.59
E-Business in the Aalborg Region – Electronic E-Business	
Developing Project for Enterprises	43,055.66
E-Business Between Private Enterprises and the County of North Jutland	119,995.33
The Digital Building Process	18,978.40
B2B - 2.2None	1,885.70
Vækstcenter Nord - An IT Hot-bed and Innovative Environment	90,550.94
Web Security via the Cell Phone	5,388.16
Eurotrans-north.com	10,640.73
www.agriworld.dk	59,936.21
Centre for the Network Society	43,348.82
MobileContent	82,047.65
Agricultural Net/Landbonet	5,239.06
The Mobile Employee	283,148.36
Knowledge Sharing in Enterprises and Networks	161,961.48
Sharing of Proprietary Software among IT Enterprises	15,043.17
Market and Product Development of Fresh Fish Subscription System	13,755.06
Participate – New Ways of Working in International	
Work Sharing Environments for Enterprises in North Denmark	67,227.17
The Digital Chamber of Commerce	189,940.56
Knowledge Building Using Virtual Visualisation	14,434.09
Intelligent Production Using Dynamic Simulation	191,328.92
VUR-IKON IT, Kompetence Og Netværk (IT, Competence and Network)	111,285.91

Total IT-Industrial Development, E-Business and IT Framework Condition 1,564,629.96

Infrastructure

Netforum and KMD Netbroker of North Denmark	167,152.85
Personalized Mobile Broadband Services (PMBS)	-33,880.81
TV2/Nord Digital	722,005.02
The BIT Wagon	0.00

Total Infrastructure i alt 855,277.05

Digital Administration

The Digital County Administration	476,064.79
Your Open Municipality Digital Administration for the Future - from Vision to Reality	284,885.90
Exchange of Information within the Health Care Sector	131,902.45
Towards the Digital Town Hall	67,609.97
The Open Digital Administration	43,262.35
The Active Map of Aalborg	187,489.66
Digital Service for the Citizens of North Denmark	0.00
The [Inter]Active Citizen	66,410.32
The ABDD Portal	191,344.74
The Digital Democracy	475,976.02
Digital Democracy in Rural Areas	35,986.50
Openness in the Digital Administration & the Press as a Mediator within the Democracy	109,421.45
The Prehospital Effort	90,800.29
The Digital Hospital	450,549.60
Speech Recognition Integrated on The Institute of Pathology	241,661.39
The Asthma Centre - The Electronic Shared Patient Record	150,217.47
The Healthy Town Net Shop - The Electronic Preventive Record	72,734.13
An Image and Data Management System for the Hospital of Aalborg	538,771.33
On-line Appointment Booking and Extension of Prescriptions with the Doctor's Consultancies in North Denmark	149,919.24
Remote Monitoring of Cardiac Patients	76,729.27

Total Digital Administration 3,841,736.87

Total Payments 8,248,336.30

Income:

Income from the State 6,779,998.79

Total Income in 2002 6,779,998.79

To be carried forward to the next fiscal year -1,468,337.51





The Digital North Denmark

The Lighthouse Centre
Brohuset
Vesterbro 102
9000 Aalborg
Tel.+45 72 14 66 81
fyртаarn@nja.dk
www.thedigitalnorthdenmark.com