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Foreword by Hamadoun I. Touré

In accordance with the decisions taken by three World Telecommunication Development Conferences (Buenos Aires, 1994, Valletta, 1998, and Istanbul, 2002) the Telecommunication Development Bureau of the International Telecommunication Union has undertaken various activities related to the study of the potential benefit of e-health and telemedicine solutions and services in the health care sector of developing countries as well as the demonstration of these applications by implementing pilot projects in different countries.

The preparation of this E-health Directory is one example of our work together with many other partners and in particular the Luxembourg Trade Fair. E-health, including telemedicine, is without doubt an ICT application which will bring the benefits of health care and medical services to many developing countries. Many countries have already recognized it and we see a rapidly growing number of e-health/telemedicine projects and partners.

E-health may be seen as a valuable tool for providing much needed health care services to underserved rural areas. This is equally important for both, developed and developing countries. E-health also promises to enhance continued medical education of doctors, nurses and other health care professionals. This is a wide area of application extremely useful for all developing countries. The Directory will be available on the ITU website and will be regularly updated.

I hope that this Directory will provide you useful information on various e-health/telemedicine systems and solutions, and it is intended to help those undertaking projects in the emerging e-health/telemedicine needs of developing countries.

Hamadoun I. Touré  
Director  
Telecommunication Development Bureau  
International Telecommunication Union  

Geneva, March 2004

1 This Directory was distributed under the title Telemedicine which is now officially referred to by ITU as e-health.
Foreword by Michael Nerlich

As an international organization whose aim it is to facilitate the international dissemination of knowledge and experiences on telemedicine and ehealth and to provide access to recognized experts worldwide, the International Society for Telemedicine (ISfT) is proud to be a partner in the production of the Telemedicine & eHealth Directory, together with the International Telecommunication Union and Med-e-Tel.

It is ISfT’s firm belief that this directory will provide support for several of the goals included in its mission statement.

The directory will undoubtedly contribute to the dissemination and exchange of knowledge, information and technologies relating to telematic applications and provide useful contact information to telemedicine users, scientists and researchers about sponsors, advisers, manufacturers, distributors and project coordinators.

We are very pleased also with the listing of several national telemedicine organizations, some of which are already ISfT members, and we look forward to support many more national and regional initiatives for the creation and development of associations promoting the cause of telemedicine and ehealth.

We hope this directory will indeed be a useful tool to all readers and look forward to developing this project further together with our partners and all listed companies and organizations. The Telemedicine & eHealth Directory is also available on the ISfT website at www.isft.net.

Michael Nerlich
President
International Society for Telemedicine

Zürich, March 2004
Foreword by Frank Lievens

Med-e-Tel, the international trade event and conference for ehealth, telemedicine and health ICT, is pleased and honoured to be a partner in the production of the Telemedicine & eHealth Directory. Being a project that was initiated by the International Telecommunication Union, the directory was to have a strong focus on supporting telemedicine applications in the developing world. However, we are convinced that this document will also become an important "who is who" for anyone around the world with an interest in telemedicine and ehealth.

Just like Med-e-Tel, the aim of this directory is to bring together users and suppliers of telemedicine and ehealth equipment and services and provide information about ongoing developments and projects, in order to enhance international contacts and cooperation.

We are committed to make the Telemedicine & eHealth Directory a great information resource for anyone involved in the use, research, development, manufacturing, distribution, installation, implementation, funding, promotion of telemedicine and ehealth related products, services, applications or projects.

Thank you to all contributors in this current issue. If you wish to receive more information about being listed, please feel free to contact info@medetel.lu. The Directory and regular updates will also be available at www.medetel.lu.

Frank Lievens
International Coordinator
Med-e-Tel

Luxembourg, March 2004
Companies/Vendors
Aerotel Medical Systems specializes in medical diagnostic devices for continuous long-term monitoring. Aerotel’s trained staff of medical engineers has developed all inclusive, state-of-the-art signal processing systems, providing customers on five continents with a complete package, ranging from the hardware platform to the actual phone and web-based software (AEROTELnet.com). AEROTEL's highly compact trans-telephonic equipment assures optimal performance and maximum reliability. Thanks to superior technology and customer service, AEROTEL is regarded worldwide as the sound Telemedicine partner for outpatient clinics as well as for diagnostic and emergency service providers.

AEROTEL: The Company For Trans-Telephonic Diagnostic Equipment
In today’s hi-tech world, an accurate daily diagnosis of the chronically ill can be accomplished long-distance through the use of cutting-edge technology.

AEROTEL: Allowing You To Be A Heartbeat Away
AEROTEL’s “Heartline” trans-telephonic ECG Technology places cardiac patients a heartbeat away from effective and prompt medical intervention. A conceptual breakthrough, “Heartline” technology enables patients to conduct normal, peaceful lives because they know that an instant professional response to their changing cardiac condition is only a phone call away…. AND “Heartline” is also heartening news for physicians. Thanks to “Heartline”, they can immediately consult with cardiologists about their patients’ status. “Heartline” is used in over 32 monitoring services worldwide. Clinically tested, FDA and CE certified, “Heartline” equipment includes:
- Single-lead ECG, 4-event recorder/transmitter via cellular (GSM) and analogue telephone lines. (HeartOne™)
- Single-lead pre/post 1-4 events Loop Recorder/Transmitter (Heart 2005A)
- 8/12-lead ECG HeartView monitors for patient/physician use (HeartView P12/8) or for physician/nurse use (HeartView12L)
- PC-based Heartline Receiving Station (HRS) with database management software (Windows®)

AEROTEL: Monitoring Patient’s Health
AEROTEL’s state-of-the-art MPM™ (Medical Parameter Monitoring) monitors provide a complete health picture by enabling patients and physicians to conduct routine medical parameter monitoring from the comfort of their home or office. Using a simple, one-step procedure, the monitors automatically transmit data over telephone lines to the receiving station through an advanced, state-of-the-art communication unit. The MPM™ line includes:
- BP-Tel™ - Trans-telephonic Blood Pressure Measuring Device
- Weight-Tel™ - Trans-telephonic Weight Scale
- Tele-ClinQ™ - Multiple Data Access for Chronic Care & Disease Management for different parameters such as Blood Pressure, Weight, Glucose Meter, Blood Oxygen Saturation Level (SpO2) and Respiratory Flow Meter.
AEROTELnet.com: The Leading E-Health Management Service
Physicians and patients can improve their healthcare management through Aerotel’s leading web-based application - AEROTELnet.com. Designed as a complementary tool to Aerotel’s monitoring systems, AEROTELnet.com guarantees physicians, patients and specialists secure access to medical databases via the Internet. A state-of-the-art solution for optimizing and managing clinical trials and diseases management programs, AEROTELnet.com enables healthcare providers to review relevant patient-related information and to achieve a long lasting relationship with their patients.
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Ludwigstaler Strasse 25
78532 Tuttlingen
Germany

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www.BERCHTOLD.de

BERCHTOLD is an internationally recognized medical device company, focusing on developing, producing and distributing OR equipment.

BERCHTOLD. Your partner in the OR.

CHROMOPHARE® – surgical and examination lights
OPERON® – surgical tables
ELEKTROTOM® – electrosurgical units and accessories
ORICS® - telemedicine
Card Guard AG
2 Pekeris Street Science Park
Rehovot 76100
Israel

Contact: Mardi Raff
Tel: +972 8 9484000
Fax: +972 8 9484044
E-mail: mraff@cardguard.com
www.cardguard.com

Card Guard is a leading medical technology company specializing in advanced telemedicine systems and monitoring services for high-risk and chronically ill patients, and for ordinary consumers of healthcare products.

Card Guard, founded in 1990, is based in Switzerland, and is listed on the Swiss Stock Exchange. The Company has wholly-owned subsidiaries in Israel, the United States, the Netherlands, Japan and Brazil. In 2000, Card Guard acquired LifeWatch, Inc. a leading US cardiac service provider, and Instromedix, a well-known provider of telecardiology devices and services. In 2001, Card Guard acquired Quality Diagnostic Services (QDS), a cardiac service provider, and consolidated it within LifeWatch.

Card Guard provides a total solution to health care providers seeking to balance quality of care, rising costs of treatment and shrinking budgets. Its' portfolio of telemedicine systems and services provide the tools needed for efficient monitoring, transmission, acquisition, processing, and storage of patient's medical data.

Card Guard’s newest wireless healthcare platform, the PMP, is a state-of-the-art tri-band GSM/GPRS cellular phone combining a PDA with Pocket PC, a communication button, and embedded medical applications which communicate with the web-based PMP Medical Center. This complete system allows remote monitoring of patients, and offer key components of disease management.
Cegeka Health Care Systems
Universiteitslaan 9
3500 Hasselt
Belgium

Tel: +32 11 24 02 34
Fax: +32 11 23 34 25
E-mail: info@cegeka.be
www.cegeka.com

Cegeka designs, develops, implements and operates software solutions for the healthcare sector (hospitals and clinicians-specialists) and for the management of hazardous products.

Cegeka also provides a broad package of ICT services, such as software development, operations activities, help desk support, hosting, disaster recovery…to mainly Belgian customers. The services are offered in the form of outsourcing or service contracts on a project or temporary basis. Cegeka was established in 1992 and has 3 locations in Belgium and 1 in the Netherlands. The Cegeka Group realized a turnover of €22,3 million in 2002 and employs almost 240 people.

Products:
- C2M: C2M ensures that the information of the different vertical subsystems (administration, laboratory, radiology…) of a hospital is available to all caregivers at any time or place.
- MONA: MONA stands for Medical Online Access. MONA provides general practitioners direct access to their patients’ hospital records through the internet.
- C2P: C2P guarantees a perfect management of drug prescriptions in a hospital.
C.G.S. di Coluccia Michele & C. sas
Borgo Stretto, 10
56127 Pisa
Italy

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Fax: +39 050 573854
E-mail: cgs@cgsgroup.it
www.cgsgroup.it

C.G.S is a private research company dealing with advanced scientific research and industrial consulting & services. It is particularly interested in the design and development of innovative products, systems and processes and in their real application. C.G.S. has carried out project management and scientific research activities in EU-funded projects embracing extremely different research sectors (medicine, health, environment, HW/SW applications, industrial plants, communication, process and product innovation, purification, recycling, agriculture…).

Advanced scientific research: project management, project coordination and technical research activities. Particular interest towards the design, development and testing of innovative products, systems, plants and processes to be applied to the medical and other related industrial sectors.

Industrial consulting and services: health, safety & hygiene in the working environment, quality, etc.
Computerized Screening, Inc.
1395 Greg Street, Suite 102
Sparks, NV 89431
USA

Contact: Bob Sullivan
Tel: +1 775 359 1191
Fax: +1 775 359 7879
E-mail: bsullivan@computerized-screening.com
www.computerized-screening.com

Computerized Screening Inc. (CSI) is a privately held medical device manufacturer, healthcare technology, and marketing and information company. The centerpiece of CSI’s health complement is the CSI Health Station, one-stop health information, and screening technology that features four patents. Included in these is a patent for the most accurate, non-invasive automated blood pressure measurement device in existence today.

The CSI Health station provides telemedicine technology and enhances healthcare access to preventive self-health maintenance systems – to monitor vital signs, conduct medical assessments and educate users, about the importance of self-health maintenance. Advanced telemedicine capabilities allow patients to transmit test results to the clinic and enable physicians to monitor patient progress.

- Patented, most accurate blood pressure and heart rate reporting and tracking
- Personal, secure health website for each person (optional)
- Patented, seated, and wheelchair accessible weight measurement and tracking
- Telehealth capabilities through video conferencing and dial out
- Copyrighted Health Risk Appraisal scoring and tracking
- Retains the most recent 20 measurements for each user
- Printout of blood pressure, HRA and weight measurement
- Controlled Internet access for e-commerce and health information (optional)
- Disease State Management
- More effective use of your Health Care dollar - PREVENTIVE CARE!
- Customized local community service directory
- Comprehensive health tip video library
- Rx and OTC drug information
- Magstripe or barcode card access for guaranteed security of personal health information (optional)
DN Group
Via de’ Carracci, 93
40131 Bologna
Italy

Contact: Paolo Serra
Tel: +39 051 4193911
Fax: +39 051 4193900
E-mail: info@dianoema.it
www.dianoema.it

DN Group is an Italian-German group active in the health IT sector since 1996. With a customer base of more than 150 healthcare institutions, most of which large hospitals, DN Group is one of the top European players in the Diagnostic Information Systems market. GMD is the German company of the Group. Initially funded by a group of Venture Capital firms, it was focused from its very foundation on Clinical Data Management systems.

Idea
Healthcare institutions all around the world are constantly striving to improve quality of care and to reduce operational costs. Effective information sharing along clinical processes is a key driver to achieve these results, but clinical information is usually dispersed among many existing vertical systems and it is not easily accessed by healthcare professionals.

Since 1999 GMD has developed e-health.solutions®, a state-of-the-art Electronic Patient Record and Clinical Data Management platform built on the idea of integrating existing clinical data and distributing it wherever it is needed inside healthcare institutions.

Design Fundamentals

**e-health.solutions®** is built on four main Design Fundamentals:

**Integrability:** The whole data model and the communication interfaces are based on international communication standards (HL7, DICOM, XML, http) making it easy to integrate all sorts of clinical data from existing applications: reports, images, results, notes, etc.

**Accessibility:** The three-layer web architecture and the Java client allow easy access to the application from distributed stations without any need for peripheral software distribution and maintenance.

**Flexibility:** The powerful configuration tools and the fully-fledged Application Generator make the application layer easily adaptable to existing workflows and to the different processes of each organization.

**Data security:** Data encryption, audit-trail functions and powerful access right management comply with HIPAA §164.312 and with the strictest international standards for Privacy, Data Safety and Traceability.

Experiences

With e-health.solutions® it was possible to realize ITACA project building one of first web-based ASP Electronic Patient Record in Europe for “S.Orsola-Malpighi” University Hospital in Bologna.

e-health.solutions® counts now on 26 real references between Germany and Italy, most of which large institutions with more than 1,000 beds.

e-health.solutions® is used with satisfaction by thousands of nurses and physicians that rely on it as a powerful tool to improve their decision processes, reduce errors and enhance therapy effectiveness.
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Technopole Atalante Villejean
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France

Contact: Jérôme Champetier de Ribes

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Fax: +33 2 99 14 33 80
E-mail: info@etiam.com
www.etiam.com

ETIAM is editor of software for the healthcare market. European pioneer of the medical standard DICOM, ETIAM produces advanced software enabling doctors cooperation and multimedia systems connectivity. This software allows to add a connectivity function to existing hardware or software.
ETIAM does not sell directly its products. It builds partnerships with companies interested to add value to their own products by integrating ETIAM software and technologies to offer immediately well adapted, up-to-date and opened networking solutions based on their existing products.

mediem-expert is a solution allowing second opinion on DICOM images and associated documents, using point to point communication or secured e-mail.
mediem-staff adds videoconference and collaborative work on the documents.

DICOM Suite is a DICOM development kit: software libraries to allow software engineers to easily:
- include multimedia functionalities in their software, with a limited investment;
- integrate quality DICOM services or medical images inside their applications.
DICOM utilities: a line of stand-alone utility software allowing to gradually build or enhance the possibilities of the medical image networks inside the hospitals.

mediem, the multimedia medical e-mail: a dedicated communication system adapted to all the needs of the healthcare industry, to exchange securely medical information. It integrates easily into all medical software, workstations, on all platforms (Windows, Mac, Unix). It allows the association of medical data (images, vocal or written reports) in different formats inside a “medical exchange folder” relating them to one patient. These virtual folders are exchanged by doctors in a secured way (S Mmime 128 bits) on the Internet, or inside an Intranet. The same software allows to communicate on DICOM enterprise networks and convert data (like Jpeg images or video signal) into DICOM. mediem is an ideal tool to structure medical network (oncology, cardiology, gynecology).
Euromed Networks AB
Gyllenstiernsgatan 18
115 26 Stockholm
Sweden

Contact: Peter Severgårdh
Tel: +46 8 54 58 99 99
Fax: +46 8 54 58 99 90
E-mail: peter@euromed.se
www.euromed.se

Euromed Networks AB is a Swedish telemedicine and Image Management company which is well known for its unique and clinical approved systems. Our software for Image Management and Speech are well integrated and running with EPR systems.

Products:
Picsara
Migra
Medipas
MedSpeech
Click to Meet
VoiceJournal
HomMed LLC
19275 W. Capitol Drive, Suite 200
Brookfield, Wisconsin 53045
USA

Contact: Marilynn Ruch
Tel: +1 262 783 5440
Fax: +1 262 783 5441
E-mail: mruch@hommed.com
www.hommed.com

HomMed® LLC is a state-of-the-art telehealth company based just outside of Milwaukee, Wisconsin.

HomMed is a leader in the rapidly-growing home patient telemonitoring industry. HomMed, LLC is currently working with over 160 partners nationwide, and also has operations in Canada. The HomMed Health Monitoring System has been used with more than 200,000 patients.

HomMed LLC is the provider of the HomMed® Health Monitoring System. Either the HomMed Sentry unit or the HomMed Genesis unit is placed in the user’s home. (Both home units are FDA Class II medical devices.) The home unit collects complete patient vital sign measurements and subjective health-related question responses, and then automatically transmits the data via wireless technology or internal modem. Multiple simultaneous-use peripheral attachments are available for more comprehensive health monitoring needs. The data is transmitted to a Central Station for daily clinical review and assessment. Data tracking and trending allows for full care path review.
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IMCO Technologies International, a Swiss/USA company, is a leader and innovator in offering digital image management solutions (PACS) to hospitals, diagnostic imaging centers as well as orthopaedic and veterinarian practices. With over a decade of experience and more than 100 clients worldwide, IMCO is well positioned to offer leading image management solutions well into the future.

IMCO’s success is the result of providing affordable solutions with industry-leading image retrieval speed, easy to learn and use software, and unsurpassed reliability built upon industry standards. The product line ranges from diagnostic workstations, to digital archives, to web based and wireless teleradiology systems.
iMed Norwegian Telemedicine AS  
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www.imed.no  

iMed is a company that is founded to help customers find their way in the jungle of technological, medical and organisational issues that emerges when eHealth is introduced in a health care organisation. Building on the experience gained through the last decade at the Norwegian Centre for Telemedicine, iMed puts together packages of technology and knowledge that will allow the customer to start using telemedicine with little time wasted on trials and errors. Our aim is to offer help at any stage in the process from idea to operational services.

iMed has a thorough knowledge of both the health care sector and the telemedicine and eHealth development in Europe and globally. From the start in 2002, iMed has established itself as a consultancy and integration company in the field of telemedicine and eHealth, in particular within the fields of maritime telemedicine and home care.

iMed has together with Well Diagnostics and MedIT developed a rugged and compact solution for remote medical diagnostics. The merMAid solution is design for emergency use. Minimum training is required to record an ECG, measure the SpO₂ value and the temperature or to take pictures of the patient. The measured data is easily recorded and automatically sent to a predefined call center where medical experts give immediate feedback and guidance to handle the situation in an optimal way.

The ferry MS Jupiter from Fjord Line has used the merMAid since July 2003. They are very satisfied with the solution and have already used it in several emergency situations. By the end of 2003, they estimated that they had saved four evacuations. The nurse on boards says that the major benefit was the feeling of security for patients with chest pains.

The merMAid solution is based on market requests; i.e. MS Jupiter had in year 2002; 1500 minor and major cases of illness and personal injuries, resulting in three evacuations and three deaths. At least one of the evacuations could have been avoided if the ship had a 12 lead ECG and the possibility to consult medical experts. The survey of user needs for telemedicine at sea made by NST in 2002 was based on interview with different categories of ships and users. The survey concluded the main user needs to be: “A portable PC with the possibility to measure the biological signals ECG, SpO₂, Temperature and Blood pressure, combined with a digital camera and the possibility to have predefined call centers to use for interpretation and advise. The telemedicine system must be combined with simple user interface, professional training, and secure routines.” All the main requirements are combined in the merMAid solution. The software is running on a rugged PC with touch screen, all integrated with the diagnostic equipment in a compact carry case.

Both ships with and without professional medical personnel on board will be potential users of the merMAid system. Non-professional medical personnel always will have necessary certification in basic medical treatment, emergency procedures, and first aid. Other areas like
offshore, defense and governmental funded projects (UN, WHO) will also be potential users of the merMAid solution.

The medical call centers will be able to receive the data for medical diagnostics by installing the merMAid software on a PC with access to the Internet. All data transfer is encrypted, the diagnostic data can also be sent without identifying the patients name.
InformationsLogik Sweden AB
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Advanced Information Systems for Medical Laboratories: Product names: iLab (Information systems for Laboratories), SymPathy (Systems for Pathology), AIM (Advanced Imaging Module). iLab Web Solutions.

InformationsLogik is a company specialised in the development and implementation of informations systems for hospitals and especially medical laboratories. The basic product line covers laboratories such as Histopathology, Cytology, Microbiology, Bloodbank and Genetics. All basic products are connected to hospital systems and web solutions. IL has offices in Malmo, Sweden and in Utrecht, in the Netherlands, with a customer base in six countries at 110 different locations.
**LuxExpo S.A.**  
10, circuit de la Foire Internationale  
1347 Luxembourg  
Luxembourg  

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www.medetel.lu

Management of the Luxexpo exhibition and conference center. Organizers of trade exhibitions, conferences and events.

Med-e-Tel: annual event (taking place in April) in the field of telemedicine, ehealth and health ICT. The event consists of a trade exhibition bringing together manufacturers/suppliers and buyers/users from around the world. The event is supported by numerous national and international organizations and institutions who are involved in the research, development, funding and promotion of telemedicine and ehealth.  
A conference program, with sessions focusing on practical applications and current projects in the field of telemedicine and ehealth, is also an integral part of the event.  
Several workshops and meetings are also organized in the margin of the event by some of the supporting organizations.
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www.tokapi.nl/eu

Tokapi is a dynamic PR, communication and ICT consultancy agency based in the Netherlands, co-coordinator of the iEuropean Commission ICT cluster EUTIST-AMI focusing on agents and middleware. Tokapi is main partner in the (E)MOTIONS project (a low-threshold ASP solution using digital imaging in order to improve human motions, e.g. in prosthesis alignment and ergonomics).
MIR - Medical International Research srl
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www.spirometry.com

MIR is an Italian company, one of the market leaders in the sector of small, hand held, portable devices for lung-function testing as well as in the new and fast-developing sector of remote monitoring via telemedicine for patients with chronic respiratory pathologies. MIR is the only company in the world to offer pocket sized device (Spirotel) which combines the functions of tele spirometer and tele oximeter.

Using Spirotel, the family doctor makes a spirometry test on his patient and transmits the results to a WEB Server with a normal telephone call, using simple-to-use wireless technology. This operation enables the non-specialist doctor to gain access to specialist advice and help when he needs it. The test results are available on the server for the specialist to access via Internet to download the data, to view the results (in graphic or tabular form), to analyse the results and to translate them quickly into feedback of vital importance for the patient.

The same Spirotel hardware, programmed with a different internal software, is also used for home care telemonitoring of the COPD or asthmatic patient. In this configuration the device can collect not only parameters but also supplementary information such as symptoms, drug taken and life style. In this case, the patient transmits the spirometry data directly to the WEB Server.

The specialist and/or the family doctor can then view the results via an Internet connection, using a PC software which is able to classify the level of risk according to the profile of the individual patient and also to show a trend of the results, of vital importance to anticipate and possibly to avoid severe episodes. If required (and configured accordingly) then the WEB Server can even send e-mail, SMS, MMS directly to the doctor’s GSM.
Optifa
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Société de consultation secteur santé hôpitaux - industrie informatique santé - commission européenne - autorités publiques fédérales et régionales

Conseils et coaching individuels
Etudes stratégiques
Etudes opérationnelles
Etudes informatiques
RTX Healthcare A/S
Stroemmen 6
9400 Noerresundby
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RTX Healthcare can make your medical device wireless
RTX Healthcare focuses entirely on providing world-class wireless connectivity solutions for medical and healthcare devices.

RTX Healthcare has considerable experience and skills in developing both electronics and software to meet the special requirements involved in medical and healthcare devices, as well as the technical and quality standards involved in the relevant approval procedures.

RTX Healthcare provides customers with complete individually tailored turnkey solutions that transform initial specifications into fully tested, ready-for-market products, in the shortest possible time.

Besides offering R&D assistance, RTX Healthcare has also developed an OEM product suite for remote monitoring of vital signs.

- **PSTN Telehealth Gateway**

  *Wireless TeleHealth Gateway with Bluetooth Wireless Technology and built-in analogue modem.*
  The TeleHealth Gateway is a wireless Bluetooth-to-PSTN gateway for the seamless and secure transmission of data from vital sign monitoring devices like blood pressure monitors, personal weight scales, SPO2, peak flow monitors etc. to an HTTP server on the Internet.

- **GPRS/GSM Telehealth Gateway**

  *Wireless TeleHealth Gateway with Bluetooth-to-GSM/GPRS technology*
  The TeleHealth Gateway is a wireless Bluetooth-to-GSM or GPRS gateway for the seamless and secure transmission of data from vital sign monitoring devices like blood pressure monitors, personal weight scales, SPO2, peak flow monitors etc. to an HTTP server on the Internet.

- **Wireless Personal Weight Scale - with built-in Bluetooth technology**

  *Wireless transmission of a patient's weight*
  The device measures a patient’s weight in a simple one-step procedure, and transmits the data via built-in Bluetooth wireless technology to a PC, PDA, custom device or RTX Wireless Telehealth Gateway. The Wireless Personal Weight Scale is designed for seamless use by the patient.
• Wireless Blood Pressure Monitor - with built-in Bluetooth technology

**Wireless transmission of blood pressure and pulse rate results**
The device measures blood pressure and pulse rate in a simple one-step procedure, and transmits the data via built-in Bluetooth wireless technology to a PC, PDA, custom device or RTX Wireless Telehealth Gateway. The Wireless Blood Pressure Monitor is designed for seamless use by the patient.
Sony Business Europe - Healthcare Solutions
With more than 20 years experience in the healthcare sector, Sony has developed a fine understanding of the difficulties and pressures faced by members of the medical profession today. From medical imaging networks and telemedicine through to technology to aid communication and training, Sony provides products and solutions which can reduce waiting times, enrich diagnosis and make hospitals more efficient. From DICOM printers to VAIO Notebooks, Dicom storage solutions to monitors, Sony equipment is fast, reliable, easy to use and cost-effective.
For more information please visit www.sonybiz.net/healthcare.

Sony benefits for healthcare
Sony audio-visual technology – digital video cameras, monitors, printers and video recorders – has been used for many years to assist quicker, more accurate diagnosis and treatment in hospitals and clinics everywhere. This experience and an unmatched heritage in delivering broadcast video and networked multimedia solutions to many world-leading organisations has lead to the development of dependable, cost-effective audio-visual and IT solutions. Sony systems grow with your own needs and integrate seamlessly with existing infrastructure.

Sony medical imaging network solutions
Sony solutions give “any time, any place” access to vital patient information and all the images they need. The electronic transfer of high quality digital images over the hospital’s network allows fast and accurate diagnosis and treatment, plus cost savings and an enhanced patient experience.

Sony Telehealth solutions
Sony Telehealth solutions enable clinical staff to communicate and share data with colleagues all over the world; view a medical procedure in another room or hospital; or grant students a close-up view of an operation performed with endoscope cameras. Installation as well as usage is extremely easy.
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Tech Aid Development AG is a pan-European Market Development Specialist, focusing on Radiology Imaging Software and related “niche” medical sector software products.

1. **Open-Source Low-cost Hi-reliability PACS software:**
sole European market development authority for MARIEPACS [Medical Archiving and Retrieval of Images Electronically - Picture Archiving and Communication System] , and other software products from developer PixeLinks Inc. (NJ, USA).

2. **Patient-Centric, Electronic Health Data Record System:**
authorized general European market representative for MedXchange AG (D / CH) [Patient-Centric Electronic Medical Record and EBM (Evidence Based Medicine) Management.]
Telemedicine & eHealth Directory

Telcomed Advanced Industries Limited - Member of Medic4All group
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www.medic4all.com

Medic4All group develops and markets innovative e-Health / telemedicine technology and life quality telemedicine services programs designed for remote patient monitoring combined with an advanced medical call-center system and tele-consultation solution. Telcomed’s technology improves healthcare management for: homecare services, diseases management programs and remote patient monitoring. The systems and devices are designed for use by: HealthCare organization & Providers, Tele-Assistance companies, Hospitals and medical monitoring centers.

Telcomed provides telemedicine products and systems, worldwide utilizing innovative proprietary technology, that enables tele-monitoring of patients by a physician or other healthcare professionals and maintaining a personal medical file on the Internet.

Technology - Telcomed’s platform includes secured wireless technology for medical data transmission from the patient’s environment to a call center via the telephone or internet. The system includes: Blood pressure, Heart rate, Heart rhythm regularity, Respiratory rate, Oxygen saturation (SpO2), Body temperature, Blood sugar levels (glucose), Weight and Videoconference with a physician.

Services - Medic4All provides "life quality value added services programs", utilizing telemedicine to large customer based organizations as health benefit packages for subscribers.

Unique innovative telemedicine based services provided for a broad spectrum of users:
Advanced home care telemedicine solutions
Traveler and out-doors e-health solutions
Remote monitoring service platforms for disease management
TeleVital Inc.
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www.televital.com

TeleVital, Inc., based in Silicon Valley California has developed and deployed solutions throughout the world, leveraging the world wide web to allow medical professionals located anywhere in the world to triage patient care, and allow them to provide their specialized services and expertise to remote and developing countries. TeleVital's solutions have been designed to connect remote locations where there are limited healthcare professionals to urban locations where most healthcare specialists are located. TeleVital accomplishes this by providing Browser-based turnkey telemedicine solutions designed specifically to meet the needs of remote clinics that do not have direct access to healthcare specialists.

At the heart of the solution is TeleVital proprietary software engine VitalWare™. VitalWare is an open architecture software engine that supports the real-time streaming and remote viewing of raw and interpreted vital signs, images and x-rays, simultaneously with audio and video communication. All patient data is centrally stored and retrieved from a secure data base server, making the data available at any time. VitalWare™ operates using a standard Web-Browser allowing for the transmission and receipt of medical data over hybrid IP networks (Internet, Intranet, Extranet, VPN, etc.) made up of dial-up, cellular, satellite, cable, fiber optic, DSL, connection.
The main activity of TensioMed Ltd. is based on telemedicine. We established our telemedical hypertension disease management center, the TensioCare. It is a center where we collect and analyse data we receive from the patients’ home through the telephone line from the TensioPhone, telemedical home BP monitor.

All of our products are clinically tested according to the highest standards.

Our products are as follows:

- **TensioDay**: 24-hour professional ABPM device with infra communication and internet connection.
- **TensioPhone + TensioCare center**: home blood pressure monitor with telephone connection to the TensioCare center through the standard telephone line. The TensioCare center is a telemedical hypertension disease management center.
- **TensioPraxis**: single blood pressure monitor for professional use in the doctors’ surgeries. It can be programmed without a PC and can recognize irregular BP measurements thanks to the built-in IPD technology;
- **TensioProWave**: *new product*: Telemedical blood pressure monitor that also measures pulse wave velocity besides the blood pressure and the HR. This brand new product will be introduced to the professional market and public during the Med-e-Tel 2004 exhibition and congress in Luxembourg.
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TietoEnator is one of the leading architects in building a more efficient information society. With close to 14000 experts and annual net sales of about EUR 1.4 billion, TietoEnator is the largest IT services company in the Nordic countries.

TietoEnator offers services and products for building new IT solutions within the public sector areas of government, healthcare, welfare and education. The main customer groups are governments, local authorities and providers of healthcare services. TietoEnator offers a complete service portfolio for digital government solutions as well as solutions for healthcare, social welfare, education and libraries. TE Trigon AB is now a part of TietoEnator Public & Healthcare AB and performs strategic consulting for TE customers. We are several persons working actively with eHealth strategies and telemedicine program implementations.
**United Telemedicine Ltd.**
PO Box 39
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**United Telemedicine Ltd** is a software and services company specialising in the provision of clinical support solutions, utilising telemedicine, to the public and private healthcare sectors.

**Telemarque** is a multi-media, clinical support application, utilising ‘store & forward’ telemedicine procedures to support a wide range of medical specialties including Dermatology, Burns & Plastic Surgery - Wound Assessment & Management (Burns, Trauma, Leg Ulcers, Pressure Sores), Scars, Lesions, and Tissue Viability. **Telemarque** can be readily enhanced to address other specialities that may be required.

In its simplest form, **Telemarque** enables capture of digital images for ‘tele-referral’ to medical specialists. **Telemarque** ‘speciality’ modules manage the complete history of a patient ‘episode of care’ from initial consultation through diagnosis, treatment, and discharge. The system allows capture of, digital images, video clips, audio clips, & documents alongside clinical data, to enable electronic patient referral for effective opinion & diagnosis by a remote specialist.

**Telemarque** is designed round a robust & secure ‘open’ relational database to support ease of integration with other applications. Built in security features meet or exceed all of the stipulations of the UK Data Protection Act and the recommendations of the Caldecott Committee on the security and privacy of patient records. Full audit trail facilities allow access to historical information about patients and their episodes of care.
VivoMetrics Inc.
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VivoMetrics®, Inc. provides continuous ambulatory monitoring products and services for the collection, analysis reporting and archiving of patient-specific physiologic data.

The company’s hallmark product, the LifeShirt® System is an easy to use non-invasive system consisting of a comfortable garment with an array of embedded sensors, a handheld recorder with data collection software, and a sophisticated software package (Vivologic®) for comprehensive offline signal analysis, display, and report generation. Using the LifeShirt System, clinicians and researchers can obtain a more comprehensive view of their patients’ health than ever before possible.
Associations
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Academic Computer Centre CYFRONET AGH is a separate and organizational unit of the AGH University of Science and Technology in Cracow. CYFRONET is one of the biggest Polish supercomputer and networking centres, established over 30 years ago. CYFRONET is the leading unit in developing the Metropolitan Area Network (MAN) of the city of Cracow.

CYFRONET’s mission is to:
- offer access to its computational facilities and network services to universities and research institutes;
- maintain and develop its computer and network infrastructure;
- perform tasks related to the national policy in evaluating, promoting and applying the new computer and network techniques;
- perform research activities in the area of high-performance computers, computer networks and telecommunication;
- perform consulting expertise, training and educational activities.

CYFRONET is involved in many national and international research projects. Following projects are currently realized: CrossGrid (CYFRONET is its coordinator), PELLUCID, GridStart, Pro-Access, 6WINIT (has been just terminated) - all within the EU 5FP and the EGEE project in the 6 FP, which will start on 1st of April, 2004.

CYFRONET was the driving force of the establishment of the Cracow Centre for Telemedicine and Preventive Medicine in frames of the project entitled: Advanced Medical and Telemedicine Services.
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The Group provides telemedicine/telehealth services and consultation to African countries as well as providing continuing medical education and feasibility studies and needs assessment for telemedicine/telehealth programs.
Barnsley District General Hospital
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www.barnsley.nhs.uk/BDGenHosp

A 610 bed, three-star status hospital, with an active research and development department. We have a long history of researching, developing, and evaluating assistive technologies working on local, National and European wide initiatives. We now have over 40 research active professionals with an external research and development income of £5.5m.

Barnsley District General Hospital is one of the country’s top 50 hospitals delivering a range of high quality acute hospital services to a population of more than 220,000. It has Associate Teaching Hospital status from the University of Sheffield and a dynamic research and development department which concentrates its efforts in four main areas:

- Promoting Health and Modernising Services for Older People across the health and social care community;
- Promoting seamless services; evaluating pathways of care between and across service providers including primary, secondary and social interfaces;
- The pathogenesis and treatment of cardiovascular disorders in patients with and without diabetes mellitus;
- Optimising cancer care across networks and multiple service providers;

In addition, we provide an assistive technology service to older and disabled people throughout South Yorkshire (population approximately 750,000).
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Biomedical Engineering Institute (BMEI) is research and development institution within the greatest university of technology in Baltic countries. It is incorporating a **Telemedicine Support Centre** and groups for:

- Biomedical devices and sensors;
- Biomedical signal processing;
- Medical informatics;
- Ultrasonic diagnostics and transducers.

Activities:
- Development of software for telemedicine and eHealth, design of Medical telemonitoring and teleconsultation systems;
- eHealth networking, clinical decision support systems;
- Processing of biomedical signals and images, applications to:
  - cardiology
  - ophthalmology
  - dermatology
  - pathology
  - otorhinolaringology
- Ultrasonography: modeling of acoustic wave propagation in biological media, prototyping of transducers and new methods of differential diagnostics
Biomedical Engineering Program
Department of Electrical Engineering
Institut Teknologi Bandung
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The Biomedical Engineering Program of ITB is an educational programme under the Department of Electrical Engineering of Institut Teknologi Bandung, Indonesia, offering undergraduate, masters and doctorate programs in Biomedical Engineering.

Educational Activities:
Undergraduate, Masters & Doctorate Programme on Biomedical Engineering
Research Activities:
- Telemedicine systems:
  - Community telemedicine systems
- Biomedical Instrumentation
- Medical Imaging
- Medical Informatics
Biomedical Engineering Research Group
Department of Electrical Engineering
Institut Teknologi Bandung
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The Biomedical Engineering Research group of Institut Teknologi Bandung (ITB) is a non-profit research group based on the Biomedical Engineering educational Programme at ITB. Current Research Activities:

- Telemedicine systems, e.g.:
  - Maternal-Focused Internet-Based Community Telemedicine System in Indonesia: a community telemedicine system focused on maternal health that serves telecoordination, teleconsultation & tele-education in community health centres (Puskesmas), referral hospital & health offices

- Biomedical Instrumentation prototypes:
  - PC-Based ECG
  - PC-Based Audiometer

- Biomedical sensors & Transducers
- Medical Imaging
Brunel University
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Brunel University, situated in West London, has a wide range of internationally recognized research and undergraduate and postgraduate courses, including Masters and research programmes in telemedicine.

Brunel University offers a comprehensive range of services in research, consultancy and courses in telemedicine. The Telemedicine Group has expertise in clinical, organisation, engineering, and communications fields.
Caspian-Central Asia Foundation
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Caspian-Central Asia Foundation is a non-governmental and non-profit organization, registered in Canada, with a mandate to promote health and development in Central Asia and the Caucasus. It is the first NGO in Canada focused on development issues in the former Asian Soviet republics.

Activities:
1. Organizing field study tours in Central Asia and the Caucasus for foreign organizations dealing with public health and/or clinical information management.
2. Developing a regional network of health professionals interested in health informatics.
Central Hospital, South Eastern Railway
Flat: 9, Block: 18/1
Hq Complex, South Eastern Railway
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India

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Central Hospital, South Eastern Railway, Garden Reach, Kolkata is a premier 303 bedded multidisciplinary, multispeciality tertiary care centre established on 16th April 1963 on the bank of river Hooghly in a 'H' shaped vertical monobloc structure. This is not only the zonal referral hospital but also a referral centre for the Eastern, Metro, North-East Frontier and North Eastern Railways in certain specialities. Medical Director is the over all in-charge of this hospital ably assisted by committed team of doctors and paramedical staff.

Services:
Hospital Administration
Hospital Information Management System
Out Patient Department & Casualty
Department Of Cardiology
Department Of Medicine
Department Of Surgery
Department Of Orthopaedics
Department Of Otorhinolaryngology
Department Of Pathology & Blood Bank
Department Of Dentistry
The City University has a long tradition of undertaking research and teaching in the area of ehealth. CHIC - City Health Informatics Centre (www.city.ac.uk/chic) and CeRC - City eHealth Research Centre (www.city.ac.uk/cerc) undertake research across the broad sweep of activities within ehealth and have wide national and international outreach, including long-established links to external organisations, NHS, health professional bodies in the UK and abroad.

Areas of activity include, research to support healthcare delivery and enhance health outcomes, supporting clinical decision making, telemedicine/care, modeling physiological, clinical and healthcare processes ranging from the individual patient to issues of health policy, the role of digital libraries in health care, agent technologies in healthcare, healthcare ontologies, usability and user evaluation studies in health information systems, human-computer interaction and acceptability, investigation into the patient knowledge and attitude change after using Internet health web sites. Also, we have a long standing interest in the broader policy issues around information science issues as well as health management and food policy.

Croatian Telemedicine Society, Croatian Medical Association
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http://mef.hr/telmedzg04

Planning and development of services: development of clinical/management tele-practice, organization of multidisciplinary teams, new projects/management in tele-health care, knowledge updating, interviewing, counseling.

Training and education: professional and scientific university courses and symposia/tele-courses, professional training, support in 'in-service' education/training, refreshment of knowledge and skills, guidelines/criteria for establishment/organization of management boards/consultation/tele-expert groups.

Basic telemedicine communication: consultation in all fields of clinical medicine, availability of 'unavailable' sites, bringing specialists to countryside settings, preoperative and intraoperative expertise

postoperative consultation

Define the status of TeleMED projects within the frame of the unique telemedicien system in the Republic of Croatia, which will be completely based on the existing HT infrastructure (ISDN, ATM, GSM and GPRS, Internet).

In the next phase, developmental TeleMED plan includes telemedicine consultations for all dislocated outpatient clinics and health centers in the Republic of Croatia. In this way, the global strategy of telemedicine connection of all medical points in the Croatian health care will be implemented.

Define the future role, developmental plan, and potential tasks and duties of Croatian TelMED to the Regional Disaster Management Center, Stability Pact, (RDMC):
- RDMC requirements in TelMED Center activities in critical situations
- use of RDMC resources in in continuo TelMED activities
CRS4, Center for Advanced Studies, Research and Development in Sardinia
C/o Polaris
Loc. Pixina Manna, Edificio 1
9010 Pula (CA)
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Tel: +39 070 92501
Fax: +39 070 9250216
E-mail: giach@crs4.it
www.crs4.it

CRS4 is an interdisciplinary research center developing innovative applications in the field of the information and communications technology.

In particular, the activities of the Biomedical Applications Group are related to image processing, 3D reconstruction, medical image storage and transmission, physical simulation of blood flow in arteries and more.
Danish Society for Clinical Telemedicine
The Panum Institute, Blegdamsvej 3C
2200 Copenhagen
Denmark

Contact: Ole Winding, MD Sc.
Tel: +45 35327331
Fax: +45 35360116
E-mail: owi@plab.ku.dk
www.dskt.org

Danish Society for Clinical Telemedicine is a scientific medical society under the umbrella of
the Danish Medical Society

The aim of the society is, based on science, to promote knowledge and understanding for the
use of telemedicine and telemedical tools in clinical settings

A further aim is after- and continuing education and training of doctors and healthcare
personnel in the use of telemedical tools as simulators, robot surgery and video-conferencing
during surgery and tele-learning.

These new telemedical techniques can be used in phase 1 and 3 testing of new
pharmacological substances.

Activities in the society will include clinical projects, guided by so-called SIG (Special Interest
Groups).

One major SIG area will be monitoring of patients outside hospital e.g. in their own home, or
wherever they are (also from a global point of view), using pervasive computing, blue tooth
technology and broadband/satellite communication to hospital/doctor or alarm-central /also
called e-health/pervasive healthcare and GPS for locating the patients.
Department of Informatics and Telemedicine of Donetsk R&D Institute of Traumatology and Orthopedics
ul. Artema 106
Donetsk 83048
Ukraine

Contact: Anton Vladzymyrskyy
Tel: +38 050 500 85 36
Fax: +38 062 335 14 61
E-mail: avv@telemed.org.ua / avv25@skif.net
www.telemed.org.ua

The first organization in Ukraine which will carry out scientific research in the field of telemedicine. Each year organizes about 100 teleconsultations. In 2000 created the “Telemedicine in Ukraine” website (www.telemed.org.ua). In 2003 founded the “Ukrainian Journal of Telemedicine and Medical Telematics”.

Activities:
1. Teleconsultations (trauma, orthopedics, surgery, neurology, dermatology, narcology, etc.)
2. Distant education in trauma surgery and orthopedics
3. Teaching of telemedicine for Donetsk State Medical University
4. Publishing of “Ukrainian Journal of Telemedicine and Medical Telematics”
5. Scientific investigation in field of theoretical and practical telemedicine
Our department for Medical-Informatics deals with systematic processing of data, information and knowledge in the fields of medicine and health-care. Using interdisciplinary methods from information technology, mathematics, biometry and linguistics, principles and processes as well as the structure and operation of new information systems are developed. Two research projects are in progress in this department:

* SEE-KID: Biomechanical simulation of the human eye surgery
* BURNCASE 3D: 3D documentation of human burn injuries

The research field of Medical-Informatics is especially focused on the development of methods and tools in the following areas:

* Diagnostics (the virtual patient) and therapy (minimal invasive surgery methods)
* Simulation of surgical procedures
* Early diagnosis and prevention of diseases, alleviation of physical disabilities
* Health advisory service and –reporting systems
* Management and operating of information systems in health-care
* Medical documentation and knowledge-based decision support systems
EHTEL (European Health Telematics) Association
M.E.P.S.
50 Rue d’Arlon
1000 Brussels
Belgium

Contact: Céline Van Doosselaere
Tel: +32 2 230 9650
Fax: +32 2 230 7773
E-mail: info@ehtel.org
www.ehtel.org

EHTEL provides to its members a platform for information, lobbying, representation, networking and co-operation in support of the implementation of information and communication technologies (ICT) in health and social care in Europe.

EHTEL believes that using ICTs in health and social care in Europe offers an unparalleled opportunity to revolutionize:
- The quality of health and social care services provided to patients and citizens;
- The speed and ease of access to those services;
- Their efficiency and cost effectiveness.

The Association brings together under one roof all of the constituencies with an interest in ICTs in health and social care:
- National and regional health authorities and systems
- Hospitals and other health institutions
- Public and private insurance providers
- Health professionals
- Health managers and executives
- Patients, citizens and consumers
- Industry
- Researchers and academics
- National and regional member-based organizations.
ENEA-UDA
Agency for Sustainable Growth
Via Don Fiammelli, 2
40129 Bologna
Italy

Contact: Milena Stefanova
Tel: +39 051 6098073
Fax: +39 051 6098084
E-mail: milena.stefanova@bologna.enea.it
http://spring.bologna.enea.it/agenzia/index.asp

ENEA is a big Italian National Multidisciplinary Research Organisation. The Agency for Sustainable Growth, ENEA-UDA, is developing and implementing a number of services aiming to support the national and European industry systems. In particular, ENEA-UDA is coordinating and participating in numerous European R&D projects.
Health Information Network Europe (HINE) offers unique one stop access to key strategic for European eHealth markets. Recognising the need for reliable insight into European developments in eHealth, HINE was established in 2001 with the support of European Commission and 20 ICT industry. HINE is now providing a set of services structured to help healthcare IT suppliers and users address current and emerging issues across the whole healthcare sector. The HINE service is provided by Deloitte, working with Silicon Bridge Research, and located in Brussels.

HINE provides four different levels of participation to cater for a variety of potential subscribers, starting at €500 for individual Associates and €5,000 for Corporate SMEs (small to medium niche enterprises). Strategic and Premier subscribers, at €20,000 and €35,000 respectively, are offered access to premium services and bespoke consultancy to meet the individual needs of larger organisations with high-level multinational operations in healthcare.

What you get for your subscription

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(1) = summary  (2) = single country  (3) = optional

New subscribers immediately have access to information already produced by the HINE programme as well as getting priority access to results of ongoing strategic research studies. Don't delay, take action now to get the immediate benefits of one-stop access to key European eHealth information. The future for eHealth may be closer than you think.
Innovation Studies Centre, Imperial College London
Tanaka Business School
South Kensington Campus
London SW7 2AZ
United Kingdom

Contact: Prof. James Barlow
Tel: +44 20 7594 5928
Fax: +44 20 7823 7685
E-mail: j.barlow@imperial.ac.uk
www.imperial.ac.uk/tanaka/innovation

University research centre

We have an extensive programme of research on the planning and implementation of mainstream telecare services.
ISfT - International Society for Telemedicine

c/o ICT Regensburg
Josef-Engert-Strasse 9
93053 Regensburg
Germany

Contact: Düniz Gürdal
Tel: +49 941 943 1788
Fax: +49 941 943 1853
E-mail: contact@isft.net
www.isft.net

The ISfT is a non-profit organization which facilitates the international dissemination of knowledge and experiences on telemedicine and ehealth and provides access to recognized experts worldwide.

ISfT may in particular

- support cooperation between non-governmental organizations on the one hand and governmental and non-governmental institutions on the other
- support national telemedicine organizations
- promote the cause of telemedicine within the World Health Organization and other international institutions or organizations
- contribute to the dissemination and exchange of knowledge, information and technologies relating to telematic applications
- promote initial and supplementary theoretical and practical training in the field of telemedicine, including its applications throughout the health sector regardless of professional or geographical limits
- support journalistic activities relating to telemedicine research and development and its application
- bring together telemedicine users, scientists and researchers and sponsors, advisers and manufacturers and distributors and their scientific personnel
- promote the formulation and publication of rules for good practice and also guidelines and information on how to act
- support activities relating to the establishment of appropriate legal outline conditions for telemedicine applications.
ITACA Institute
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46022 Valencia
Spain

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Fax: +34 96 387 72 79
E-mail: sguillen@itaca.upv.es / vtraver@itaca.upv.es
www.itaca.upv.es

The Institute for the Applications of Advanced Information and Communication Technologies (ITACA) is a non-profit organization which function is to be a centre of excellence in the research and development of the ICT, with the purpose of innovating and transferring its products and services to the society.

The ITACA Institute is formed by a multidisciplinary series of research groups of the Polytechnic University of Valencia, dedicated to the research, development of applications and innovation and technology transfer, covering a wide range of disciplines in the ICT field, particularly, in the telemedicine field:

Tele-homecare systems. Tele-assistance and tele-homecare systems for people with chronic and acute diseases.

Telemonitoring systems. Vital signs monitorisation of patients at home, hospitals or residences.

Systems for the support of independent living Home information and service systems for disabled persons and senior citizens.

Intelligent systems for the prevention and promotion of health. Information and service systems for the consultation, control and follow-up of personalised programs for a healthy life.

E-Health. On-line multimedia services, addressed to students and academic staff
Kaunas Medical University Hospital
Eiveniu 2
3007 Kaunas
Lithuania

Contact: Rytis Jurkonis
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Fax: +370 37 326301
E-mail: jrytis@takas.lt
www.kmu.lt/kmuk/about.htm

Hospital of Kaunas University of Medicine is the largest medical institution in Lithuania, providing specialized high quality services of medical care for people from Kaunas region and from all over Lithuania.

At the hospital are 32 specialized departments of profiles of conservative medicine, surgery and mother and child healthcare. Hospital is involved in studies process at Kaunas University of Medicine (www.kmu.lt/English.htm), which is biggest medical high school in Lithuania.

KMUH started telemedical and IT medical applications evaluation with pilot installation of learning platforms of telemedicine in 2000. Doctors of ophthalmology and otolaryngology firstly evaluated pilot telemedicine systems, later specialties of pathology and dermatology started evaluation and application of IT solutions in medical practice. The main areas of pilot IT application at hospital are: teleconsultation and distance education, management systems, laboratory work administration software, electronic health record creation, development of specific image processing software. Hospital is active since 2000 in these Lithuanian – Swedish IT medical applications projects: Litmed, Baltic MedWeb, Litmed2 and Baltic MedWeb2.

The Telemedicine Center was founded by Kaunas University of Medicine in 2001 with the mission to initiate, form and introduce the politics of IT medical applications and telemedicine development in the university, hospital and in the country (http://tmc.kmu.lt/). From 2002 the first Lithuanian telemedical applications cluster structured together with Kaunas University of Technology was initiated.
MedCom - Danish Centre for Health Telematics
Rugaardsvej 15, 2.
5000 Odense C
Denmark

Contact: Lars Hulbaek
Tel: +45 66133066
Fax: +45 66135066
E-mail: LHF@health-telematics.dk
www.medcom.dk

MedCom is a non-profit, co-operative venture between authorities, organisations and private firms linked to the Danish healthcare sector. MedCom will contribute to the development, testing, dissemination and quality assurance of electronic communication and information in the healthcare sector with a view to supporting good patient progression.

National EDIFACT and XML standards for exchange of health information.

The focal areas for actual MedCom projects are:
- Internet-based infrastructure for EDI/XML, web lookup, telemedicine etc.
- Development and implementation of XML-communication to and from electronic patient records
- Continued dissemination and quality assurance of the existing EDI communication between General Practitioners and the other parts of the health sector
MedSMART, Inc
220 E. Huron Street
City Center Building, Suite 260
Ann Arbor, MI 48114
USA

Contact: Dr. Dag von Lubitz, Chairman and Chief Scientist
Tel: +1 734 527 71 20
Fax: +1 734 629 05 64
E-mail: dvlubitz@med-smart.org / info@med-smart-org
www.med-smart.org

MedSMART, Inc. is a non-profit company devoted to research in simulation-based medical education and training, and to the development of medical distance education that utilizes remote access to High Fidelity, Interactive Human Patient Simulation as its principal training medium. The Ann Arbor, MI, based company developed the Med-ASP concept (Medical Applied Simulation Provider.) Using ASP principles. MedSMART provides worldwide medical education and training services.

MedSMART provides services in medical simulation research, development, and education and training of medical personnel at all levels (from First Responders to physicians.) The company specializes in training at very large (transoceanic) distances and in “just-in time” operations that can be tailored to the specific needs of the customer. In emergencies, training based on remote access to High Fidelity Human patient simulation center in Ann Arbor, MI can be initiated within as little as 3 hrs following the request. In addition to its research and training services, MedSMART provides comprehensive technical and development consulting to customers building their own distance-based medical facilities and/or operations (telemedicine operations, distance-based or distributed medical simulation, distance healthcare education, etc.). MedSMART also offers consultation on the telecommunication issues related to telemedicine and all forms of distance education. MedSMART is the recipient of the prestigious Laval and City of Laval Prizes awarded to the company for the development of advanced technology-based solutions to global medical education and training, and for making technology available to those who cannot afford their own medical simulation centers.
The Norwegian Centre for Telemedicine (NST) is a national competence and R&D centre for telemedicine, opened officially in 1993. In 2002 the World Health Organization (WHO) designated NST as its first Collaborating Centre for Telemedicine. NST is a multidisciplinary organisation with around 110 employees who’s R&D and consultancy activities range from traditional telemedicine services between specialists and GP’s to eHealth services for patients and citizens. Academics and PhD students in disciplines such as medicine, educational science, social sciences, economics, law and informatics are associated with the centre.

The WHO activities of the centre cover major aspects of telemedicine. The collaboration is based on the Terms of Reference which includes country work, research and dissemination, distance learning, advisory service and resource mobilization.

NST cooperates with trade and industry in the development of new telemedicine products and solutions.

One of NST’s main events is the annual Tromsø Telemedicine and e-Health Conference (TTeC), which is an international meeting place for everybody who works with telemedicine and e-health.

NST supplies research and advisory services on telemedicine to a range of user groups who seek cooperation, knowledge and assistance.

NST develops practical telemedicine solutions and provides applicable knowledge and expertise on telemedicine. NST assists the Norwegian Health Service in implementing large scale telemedicine services.

The primary aim of NST is to serve the Norwegian Health Service, but NST also provides services to public and private participants, both at home and abroad. As a non-commercial part of the Norwegian Health Service, NST keeps a focus on democratic values such as equality, participation and care.

NST has experience in performing feasibility studies and projects regarding setting up telemedicine services abroad, like in Northwest Russia, Botswana, Kyrgyzstan, Georgia, Nicaragua, Sri Lanka, South Africa, Afghanistan and the Nordic countries. NST’s contribution depends on the degree of involvement, but may cover:
- Needs assessment
- Advice on telemedicine solutions (description and/or implementation)
- Security and legal rights
- Technology testing
- Deliver project management
- Arrange workshops
- Training and education
Polish Telemedicine Society
Targowa 39A#5
03-728 Warszawa
Poland

Contact: Wojciech Glinkowski MD, PhD

Tel: +48 226181717
Fax: +48 226190013
E-mail: w.glinkowski@parser.com.pl

Non-profit organization promoting telemedicine in Poland. Research, scientific supervision of telemedicine projects. International cooperation.
Region Skane
Management of the Health and Medical Services Department
Dept of Health Informatics
291 89 Kristianstad
Sweden

Contact: Owe Svensson
Tel: +46 46 17 29 67
Fax: +46 46 17 23 20
E-mail: owe.svensson@skane.se
www.skane.se

Public organisation (regional) for provision of medical care services.

Region Skane has ten hospitals including two university hospitals. The health care organisation is presently under development according to the care logics local care, specialized elective care, specialized acute care and highly specialized care including definition of the corresponding care processes. Various eHealth solutions are implemented and will be developed to support the new organisation.
Riga City Council ITC Telemedicine and Videoconferencing Division
Rātslaukums 1
1539 Riga
Latvia

Contact: Egils Stumbris
Tel: +371 7 105254
Fax: +371 7 105253
E-mail: egils.stumbris@rcc.lv
http://itc.rcc.lv

Riga City Council Information Technology Centre Telemedicine and Videoconferencing Division
Installation of computerised systems in Riga City hospitals.
Development of teleservice systems for diagnosis.
Development of telecommunication services among the hospitals and health centres.
Development of Telemedicine projects in Riga City.
Russian Cardiology Research Center
3-rd Cherepkovskaya, 15a
Moscow 121552
Russia

Contact: Dr. Sergey Nakonechnikov MD PHD
Tel: +7 095 414 62 70
Fax: +7 095 414 62 14
E-mail: Snn_cardio@mail.ru
www.cardioweb.ru

The Russian Cardiology Research Center of Russian Federation Health Ministry was founded in December 17, 1975 by the Decree of the USSR Ministry Council. The Center includes A.L. Myasnikov Institute of Clinical Cardiology, Institute of Experimental Cardiology.

The Center is the major state cardiology institution in Russian Federation. Experimental and clinical research carried out in the Center is aimed at the development of new methods for prevention, diagnosis and therapy of cardiovascular diseases using recent discoveries in physics, chemistry, biology, genetics, immunology, biochemistry and electronics. The methods are based on the understanding of molecular and cellular mechanisms underlying the development of these diseases.
Russian Telemedicine Foundation
Lomonosovsky ave. 31, build. 5
Moscow 119192
Russia

Contact: Oleg I. Orlov
Tel: +7 095 932 99 07
Fax: +7 095 932 99 07
E-mail: fund@telemed.ru
www.telemed.ru

Telemedicine Foundation is a non-profit organization established in 1997 under initiative of seven Russian ministries and departments to coordinate activities on implementation of telemedicine services in Russian Federation.

Foundation mission is to provide population, irrespective of its location, with equal rights to have high quality health care by state of the art telemedicine technologies application which meets the world professional and ethical standards, creates a stable and reliable system of services as part of everyday life, provides steady benefits, investment incentives and strong medical personnel motivation.

Formation of state policy on telemedicine;
Establishment of the infrastructure for Russian telemedicine network;
Formation of teleconsultation services market;
Development and implementation of regional and local telemedicine projects in Russia;
Telemedicine training of physicians and medical students;
Provision of telemedicine services in leading Russian and foreign medical centers;
Introduction of mobile and home telemedicine solutions.
Scientific Engineering and Marketing Research Center (SEMRC)
7a, J. Abidova
700084 Tashkent
Uzbekistan

Contact: Omonillo Rasulev
Tel: +998 71 1375200
Fax: +998 71 1375207
E-mail: ftmtm@uzpak.uz
www.ftmtm.uzpak.uz

Research in the field of communications and IT, including ehealth.
South London & Maudsley NHS Trust
Speedwell CMHT, 62 Speedwell Street,
London SE8 4AT
United Kingdom

Contact: Dr Murat Soncul, Telemedicine Co-ordinator
Tel: +44 20 8691 4535 / +44 7974579230
Fax: +44 20 8691 4537
E-mail: Murat.Soncul@slam.nhs.uk
E-mail: TelepsychiatryResearchGroup@slam.nhs.uk
www.slam.nhs.uk/news/bulletin/aug03/2.asp

South London and Maudsley NHS Trust provides mental health and substance misuse services to people from borough of Croydon, Lambeth, Southwark and Lewisham, and substance misuse services in Bexley, Greenwich and Bromley in south London. We also provide specialist services to people from across the UK.

Currently these services are available under the Telepsychiatry Programme in SL&M:

1. **Videoconferencing to Enhance the Care Programme Approach in an Adult Psychiatric Service:** Videoconferencing is used for discharge planning in order to enhance the CPA process. Telepsychiatry has been integrated into the everyday running of the service, linking the community mental health team to the acute psychiatric ward and primary care.

2. **Videoconferencing to enhance tertiary mental health service provision to the island of Jersey:** This service is set up to increase access to tertiary mental health services normally not available on the island, reduce user anxiety, improve the quality of tertiary services, determine the feasibility of clinical supervision between SLAM and the Health and Social Services Department (Jersey), and establish an advice, support and education function for mental health professionals in Jersey with colleagues in SLAM.

3. **Cognitive Analytical Therapy (CAT) via Interactive Video (IV).**

4. **Videoconferencing to improve access to mental health services for Mentally Disordered Offenders:** This service is going to be established soon following the positive responses in the feasibility study in 2003. This will improve the services for Mentally Disordered Offenders in Lambeth, which could reduce delays in discharging patients into the community, save travel costs and result in significant savings in the amount of private care contracted.
The Telemedicine Alliance is a cooperation between four international organisations, each of which is a leader in its particular field. The four partners are the European Commission (EC) via its Information Society Technologies (IST) Programme, the European Space Agency (ESA), the World Health Organisation (WHO), and the International Telecommunication Union (ITU).

**TM-Alliance Vision of a Personal Medical Network**
With the successful conclusion of the TM-Alliance project (phase 1), this prestigious consortium has just formulated a strategic Vision for the European Commission. With the underlying philosophy that a vision must be far-sighted, clear, and holistic in order to have a good chance of being accepted and successfully implemented, the consortium formulated a vision for harnessing the salient attributes of information and communication technologies (ICT) towards facilitating citizen-centred healthcare in Europe by the year 2010.

**TMA-Bridge: A bridge towards eHealth Implementation**
TMA-Bridge represents the work in this phase (2004), to bridge the gap between the Vision and implementation of that Vision. The results of the first phase pointed to the critical importance of first establishing a solid basis of standards and interoperability, before progress and necessary investment can be made. The lack of technical standards and medical coding systems was identified as being a major show-stopper for progress towards Telemedicine and eHealth implementation.
Telemedicine Association Zagreb
Dobri Dol 47
Zagreb 10000
Croatia

Contact: Prof. Pero Raos, PhD, MEng, President
Tel: +385 1 2405 367
Fax: +385 1 2405 369
E-mail: praos@public.srce.hr
web.mef.hr/telmedzg04/

Non-profit organization aiming to promote, develop and improve telemedicine activities in Republic of Croatia.

Planning of the telemedicine activities;
Informing of public and members about telemedicine and the most recent achievements in this field;
International collaboration in the telemedicine;
Publishing of books and journals, organizing of congresses, symposia and other professional-scientific meetings in the field of telemedicine.
**Telemedicine Center of Kaunas University of Medicine**

Eiveniu 4  
50009 Kaunas  
Lithuania

Contact: Alvydas Paunsknis

Tel: +370 37 338049  
Fax: +370 37 302959  
E-mail: apaun@medi.lt  
http://tmc.kmu.lt/

Telemedicine center (TMC) of Kaunas University of Medicine is a center for applying telemedicine technologies in medical practice, studies and science. TMC is a functional compound, which unites the institutes, faculties of the university and university hospital subdivisions on voluntary basis and develops cooperation with other institutions working in the field of telemedicine. The founder of the TMC is Kaunas University of Medicine. Lithuania.

The aim of Telemedicine Center is to initiate, form and introduce the politics of telemedicine development in the University and in the country and to prepare recommendations for health care institutions and government institutions.

- To provide methodical leadership for application of telemedicine technologies for medical diagnostics, consultation, monitoring and scientific investigations in all stages of the studies and postgraduate studies; and coordinate them;
- To provide the search for programs and financing sources which stimulates the development of telemedicine;
- To organize sessions and conferences on telemedicine;
- To organize and participate in national and international telemedicine projects.

Teleconsultations and second opinion  
Distance education  
Images processing  
Information exchange and creation of international databases
Telemedicine Group, Bulgarian Academy of Sciences
Institute of Psychology
Bulgarian Academy of Sciences
Acad. G. Bonchev Str., Bl. 6
1113 Sofia
Bulgaria

Contact: Malina Jordanova, MD, PhD
Tel: +359 2 979 32 02 / +359 2 979 70 80
Fax: +359 2 979 70 80
E-mail: mjordan@bas.bg

Telemedicine Groups is active in:
- design and development of portable appliances for space and aircraft medicine;
- space radiation risk analyses;
- tele-cardiology and telepsychology in rural areas.

Currently these services are available under a project, co-funded by Bulgarian government and ITU.

The project focuses its efforts toward introducing telecardiology and telepsychology in rural and semi-mountainous region in Bulgaria. It has to (1) develop, test and evaluate the effectiveness of a local, packet-based wireless access infrastructure in rural area, connecting in a network 10 villages, and thus (2) to provide a platform for the wide introduction of multimedia services such as e-health, teleeducation, etc.

Through this project Telemedicine Group hopes to illuminate the potential for online clinical work, and to share its evolving understanding of what is truly possible, despite the prevalent myths that shape the thinking about online “therapy” and the nature of Internet-facilitated communication and behaviour.
University of Abertay Dundee
EPICentre
Dundee DD1 1HG
United Kingdom

Contact: Prof. David Bradley

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Fax: +44 1382 308688
E-mail: d.bradley@abertay.ac.uk
www.abertay.ac.uk

Research & Education


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PO Box 12547
Research Triangle Park, NC 27709
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www.arabmedicare.com

Established in 1999, ArabMedicare.com is a regional web portal aimed at healthcare professionals from government, business, and academia with over 1.8 million visitors per year from over 120 countries.

Providing Market Intelligence Services (Arab healthcare market), Accredited Online Continuing Medical Education Courses, Medical News Syndication Services, Consultancy on Arab Healthcare market.
HBS Consulting
149 Grosvenor Road
London SW1V 3JY
United Kingdom

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Tel: +44 207 630 0300
Fax: +44 207 630 0300
E-mail: elizabethj@hbs-consulting.com
www.hbs-consulting.com

HBS Consulting is an international consulting firm, which aims to maximise return on investment on strategic business development and marketing expenditure. Our working partnership is with in-house Corporate Strategy, Business Development and Marketing and teams within the medical devices/equipment, healthcare ICT, diagnostics and pharmaceutical industries. HBS Consulting offers you extensive strategic and marketing support in every area, from innovative strategies for market entry, carefully considered market analysis and excellent customer intelligence to advice on leveraging strategic partnerships and due-diligence support. HBS Consulting’s IMIS operating group represents a global team of analysts and consultants that work specifically within the Medical Imaging, Patient Monitoring and Healthcare Information Systems sectors. Our consulting services include: Market Entry Strategy, Strategic Market Analysis and Valuation, Product Development, Scenario Development, Investment appraisal and product valuation, Mergers and Acquisitions, JV’s, Licensing, Due Diligence Support, Leveraging strategic partnerships and alliances, Customer Relationships

HBS Strategic reviews
HBS Strategy Reviews address the dynamic drivers in the healthcare industry today and tomorrow. They present an invaluable source of information and commentary on the latest technological and policy trends across Europe and the United States, aiding the Business Developer to identify and take advantage of existing and new opportunities. Research and written by experts from the HBS Consulting team, these strategy papers are tightly focused on the future and will help underpin your business vision.

Telehealth - A Keystone for Future Healthcare Delivery - In this strategic publication HBS presents a number of strategies for success that may be used by market participants and companies that are interested in benefiting from the growing use of Telehealth.

Smart Cards in Healthcare application - This study provides guidelines, recommendations and strategies for companies that are interested in exploiting the emerging opportunities for smart cards in the healthcare sector and healthcare organisations that are looking to utilises this technology.

Global healthcare IT trends and corporate activity - This report will provide a succinct review of the development and adoption of specific healthcare IT solutions in the major regional world markets, a review of government initiatives and an indepth assessment of the roles being played by companies focused directly on this market.
Information For Tomorrow
4121 Warner Street
Kensington, Maryland 20895
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Contact: Audrey Kinsella, MA, MS, Research Director and Lead Writer

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E-mail: info@informationfortomorrow.com
www.InformationForTomorrow.com

Specializes in research and report writing about home telehealth, its products, and effective applications. Has followed the field since 1995 and has produced 6 acclaimed published reports and more than 100 articles on topics such as smart housing, home modifications for the elderly, and chronic disease patient applications and telehealthcare needs.

Most recent books (2003) on telehealth:


Home Healthcare: Wired and Ready for Telehealth, the Nurses’ and Nursing Students’ Edition (ISBN: 0-9657674-34). A companion text to the policy book, its five chapters are focused on helping nurses to get started in the still-emerging field of telehealth service delivery. Chapters on key issues in telehealth-quality of care, safety, legal concerns, and choosing appropriate tools for use chronic disease patients.

Full market reports on aspects of the home telehealth industry are regularly provided to industry clients.

A bi-monthly topical web page titled Home Telehealth Community of Care (available on topics such as wireless, smart housing, Internet, multicultural patient care, from 2000-2002) will restart in February 2004, with its inaugural topic: “Obesity and Telecare or ‘Tele-obesity’: A Workable Solution.” Visit at: www.InformationForTomorrow.com/community.
International Hospital Equipment & Solutions
c/o RBI International Medical & Scientific
100 rue des Palais
1030 Brussels
Belgium

Contact: Astrid Wydouw
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E-mail: Astrid.Wydouw@reedbusiness.nl
www.ihe-online.com

International Hospital Equipment reports on medical technology news and solutions for the modern hospital in an easily digestible format. Targeting senior physicians and medical department heads, hospital management as well as hospital IT specialists and biomedical engineers in Europe, Middle East, Asia/Pacific & Latin America, IHE offers a personally requested, BPA-audited circulation.
IOS Press
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The Netherlands

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Fax: +31 20 620 3419
E-mail: market@iospress.nl
www.iospress.nl

IOS Press is a rapidly expanding Scientific, Technical, Medical, and Professional publishing house focusing on a broad range of subject areas. IOS Press was established in 1987 in Amsterdam, The Netherlands.

IOS publishes the book series ‘Studies in Health Technology and Informatics’. This book series was started in 1990 to promote research conducted under the auspices of the EC programmes’ Advanced Informatics in Medicine (AIM) and Biomedical and Health Research (BHR) bioengineering branch. A driving aspect of international health informatics is that telecommunication technology, rehabilitative technology, intelligent home technology and many other components are moving together and form one integrated world of information and communication media. The complete series has been accepted in Medline. In the future, the SHTI series will be available online. Next to the book series, IOS published two related journal titles, ‘Technology and Health Care’ and ‘Technology and Disability’. 
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Mary Ann Liebert, Inc. is a privately held, fully integrated media company known for establishing authoritative peer-reviewed journals in many promising areas of science and biomedical research, including Telemedicine Journal and e-Health. Its biotechnology trade magazine, Genetic Engineering News (GEN), was the first in its field and is today the industry’s most widely read publication worldwide. A complete list of the firm’s over 60 journals and books is available at www.liebertpub.com.

Telemedicine Journal and e-Health (www.liebertpub.com/tmj) is the leading international peer-reviewed journal combining medicine, public health, health informatics, and information technology. This MEDLINE journal publishes original papers in all aspects of clinical telemedical practice including: teleradiology, telepathology, telecardiology, teledermatology, telespsychiatry, telenursing, emergency medicine, and telesurgery; interactive video conferencing, remote diagnosis, and medical consultations; health policy; assessing the impact of telemedicine on accessibility, quality, and cost of health care; technological advances (e.g., networks and next generation Internet); teledmedicine law; medical education and distance learning; emergency medicine/disaster relief; home health telecare; international teledmedicine; medical informatics; military applications; space medicine, and much more. Telemedicine Journal and e-Health is the official journal of the American Telemedicine Association.
PJB Publications - Clinica Reports
Suffield House
9 Paradise Road
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PJB Publications, a trading division of the Informa Group plc, is the leading independent publisher of business news and information services for the pharmaceutical, biotechnology and medical device and diagnostic industries.

Clinica Reports provide the highest standard of focused business intelligence for the medical device and diagnostic industries. Whether you're looking to assess the latest technology, quantify a market size, build a sales and marketing strategy or put together a presentation for your sales force, we have something for you in our comprehensive range of strategic, regulatory, technology and market analysis titles.

The Future of IT in Healthcare (CBS914MED)
Our report The Future of IT in Healthcare provides a strategic insight into today's market and evaluates the current situation by looking at how systems will develop and forecasts growth by 2007.

The Future of the Electromedical Industry (CBS926MED)
The electromedical device sector is undergoing a period of radical change and consolidation, driven by a demand for integrated healthcare delivery and fully electronic record keeping of patient and procedure date. This Clinica Report is a thought-provoking analysis of the prospects and challenges for the electromedical industry to 2010 and beyond.
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Radcliffe Medical Press is a leading publisher of primary and secondary care books.

To view our products and services please go to www.radcliffe-oxford.com.
Royal Society of Medicine Press Ltd
1 Wimpole Street
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www.rsmpress.co.uk

RSM Press is the publishing arm of the Royal Society of Medicine, a long-established postgraduate medical society with a multi-disciplinary and multi-professional membership. RSM Press publishes books and journals for the medical professional and professionals working in related fields.

He@lth Information on the Internet
This bimonthly newsletter meeting the continuing demand from health professionals and others for information about health resources available on the internet. He@lth Information on the Internet contains a range of contributed articles and regular features, including:
- **Bookmarks** - an annotated review section drawing attention to the most useful health sites on the Internet
- **What's New?** - a brief overview of new health/medical Web sites, discussion lists and newsgroups;
- **Personal View** - invited clinicians describe in detail how they use the Internet
- **Current Literature** - update on current literature on the use of the Internet in medical and health settings, compiled from the MEDLINE, Science Citation Index and EMBASE databases.
This accessible and topical newsletter appeals to all health care professionals, including general practitioners, hospital doctors, nurses, allied health practitioners, health services researchers and managers, and to library and information professionals.
Direct URL: [www.rsmpress.co.uk/hii.htm](http://www.rsmpress.co.uk/hii.htm)

Journal of Telemedicine and Telecare
This journal publishes peer-reviewed papers on all aspects of telemedicine and telecare, including telehealth, online health and e-health. Review articles, original articles, preliminary communications, case reports, and letters to the editor are all regularly included.
Occasional supplements are also published and are supplied free to subscribers.
Direct URL: [www.rsmpress.co.uk/jtt.htm](http://www.rsmpress.co.uk/jtt.htm)
TEIS is a database of activities, companies and other information about the use of information and communication technologies (ICT) to deliver health care to patients at a distance. Through it, clinicians and administrators who are thinking of setting up their own telemedicine or e-health project can find out about other practitioners who may have already done similar things.

TEIS gives access to information about all aspects of telemedicine including:
- telemedicine activities, both pilot/developmental projects and permanent delivery of healthcare services
- organisations involved in telemedicine whether as hosts for projects, information facilities, publishers or suppliers of equipment
- people involved in telemedicine as contacts for organisations and projects
- publications about telemedicine including articles, chapters, books, reports, surveys, theses and videos
- equipment currently available for telemedicine

The database now holds over 2000 entries, and is fully searchable. The service is provided by the Healthcare Computing Group at the University of Portsmouth.
The Telemedicine Research Center (TRC) is a non-profit research organization founded in 1994. Its main service/product is the Telemedicine Information Exchange (TIE), a Web-based resource for information on telemedicine and telehealth.

The Telemedicine Information Exchange (TIE) is funded by the National Library of Medicine. It is a comprehensive resource for information on telemedicine and telehealth, including a bibliographic database of over 14,500 citations, a database of active telemedicine programs worldwide, a bi-monthly What's New column, information on telemedicine vendors, legislative issues, and much more. The TRC offers full text of over 4,000 articles on the TIE's Bibliographic database through its fee-based document delivery system. The TRC staff also offer research services for specific questions on telemedicine and telehealth, and development of Web-based administrative tools. In partnership with various organizations in the UK, the TIE also sponsors TIE Europe at http://www.tieurope.org, which is modeled on the TIE but provides UK/Europe-focused information on telemedicine/telehealth.
Telemedicine Information Exchange (TIE) Europe
United Kingdom

Contact: Lynda Sibson
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www.tieurope.org

The Telemedicine Information Exchange (TIE) Europe is a comprehensive web-based resource for telemedicine and e-health activities both in the UK and Europe. TIE Europe is a non-profit organization.

The Telemedicine Information Exchange (Europe) was developed to meet the needs of healthcare providers aiming to modernise healthcare delivery using technology. An inclusive, easily accessible source of quality information relating to all aspects of telemedicine & e-health was viewed as essential. TIE Europe provides this essential service and is based on TIE US, with their ongoing support and collaboration.

TIE Europe focuses in developing and publishing Toolkits or 'How to do it guides' on specific clinical specialties, aimed at addressing the multi-professional approach necessary for successful telemedicine and e-health implementation.
Ukrainian Journal of Telemedicine and Medical Telematics
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www.telemed.org.ua/UJTMMT/

Headings of the Journal: Word of edition, Problem articles, Original articles, Preliminary report, Lectures, Case study, Reviews and Discussions, Memorials, History, Information about conferences

Main subjects of the journal:
- Telemedicine (teleconsultation, distant education, bio-telemetry, monitoring, technical and clinical aspects, economic and engineering solutions, legal, ethical and deontological problems, standardization, etc.);
- Medical telematics (processing, standardization, exchange of the medical information, construction and usage of information systems, telecommunications, computer networks in public health services and medical education, etc.);
- Medical and clinical computer science (construction of hospital information systems, medical expert and artificial intelligent systems, software for public health services, problem of standardization and certification, legal questions, etc.);
- Information technologies in medical researches and education, statistical researches and simulation in medicine;
- Medical cybernetics;
- Medical equipment.
Virtual Medical Worlds Magazine - VMW
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Virtual Medical Worlds Magazine is a monthly Internet-based magazine for telemedicine, medically-related high-performance and Grid computing, information technology and virtual reality for medical applications, e-health care, 3G medicine, health care compunetics and underlying technologies.

Virtual Medical Worlds Magazine offers worldwide information on telemedicine projects and initiatives, set up in academic, industrial, medical and high-performance and Grid computing environments.

The magazine has been conceived as a professional and well structured news site, aiming at a varied readership of workers in the telemedicine field, project partners, academic and medical staff, Grid and HPCN Information specialised people and the medical and computer industry.

The magazine is equally available in html-version through e-mail. You can subscribe free of charge by sending your references and e-mail address to vmw@hoise.com.

VMW is able to serve as the ideal promotion vehicle to your telemedicine, telehealth and e-health care activities by offering a large number of practical services for companies and organisations at www.hoise.com/vmw/monthly/dealvmw.html.
Projects
**Assistive Technology for Independence - AT4I**

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www.barnsley.nhs.uk/BDGenHosp

Partners: Doncaster Metropolitan Borough Council

This project commenced April 1st 2004 and we plan to introduce telecare technologies throughout a sheltered housing scheme (approx 30-40 people) to improve independence, social inclusion and improve peoples health.

One element is to introduce lifestyle monitoring, were a system tailored to the individual is installed in the users home and detects changes in behaviour that indicate that intervention may be appropriate. Such systems can potentially automatically detect falls, reduce the fear of falling and therefore reduce the risk of a fall taking place; provide safety and security for the dwelling and user; reduce anxiety in carers; reduce the overall levels of care required; prevent hospital admittance and enable early discharge; and delay entry to residential and nursing homes. We will be using formal methods to quantify what impact such a system has during a 2 year evaluation on users, carers and professionals.

An on-site health monitoring station, where people can have key health parameters monitored; will also be introduced on the scheme. The final element of the project places emphasis on improved access to food/healthy living, social inclusion and education. Computers with free Internet access will be installed and provided for residents to access healthy eating; in particular access to on-line shopping and delivery.
BurnCase 3D
Upper Austrian Research GmbH
Hauptstr. 99
4232 Hagenberg
Austria

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Fax: +43 7236 3769
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www.burncase.at

Partners:
- Polytechnic University Hagenberg (Dr. W. Jacak)
- AUVA Unfallkrankenhaus Linz (Dr. H. Haller, Dr. C. Rodemund)
- Landeskrankenhaus Feldkirch (Dr. H. Wallner)
- Universitätsklinik Innsbruck (Dr. M. Öhlbauer)

Exact documentation is the basis for comparable medical and scientific studies. The postulated requirements of medical institutions for documentation and accuracy absorb a lot of time and work of surgeons. BurnCase 3D is a software system that simplifies and improves diagnosis, medical treatment and documentation of human burn injuries. The project goals are:

* Simplification and Improvement of Diagnosis and Medical Treatment of Burns
* Exact Burn Surface Area Calculation
* Evaluation of Standard Indices (ABSI, ICD, Mel Codes, DRGs, ...)
* Reduce Work Expenditure of Surgeons
* Base for Coverage of Service and Costs
* Establish a New Standard According to Exactness and Accessibility
* Improvement of Collaborative Work
* Integrative Documentation of Operations and Diagnoses
Cardiology Teleconference in Russia
3-rd Cherepkovskaya, 15a
Moscow 121552
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E-mail: Snn_cardio@mail.ru
www.cardioweb.ru

Partners:
- All regions of Russian Federation

The objectives of the Telemedicine projects are spreading new information among physicians. The project is focused on holding videoconferences. We broadcast from major cardiology congresses and conferences using ISDN and IP transmission. Scientific cardiologists lecture on coronary heart disease, hypertension, heart failure. Every month we carry out translation of clinical discussions- that are mostly complicated and unclear occasions of rarely met diseases. During the action modern methods of the disease treatment are discussed. All data from clinical discussions is posted on an open website of our Center. It allows physicians to get necessary information at convenient time in Internet. The information is performed in Internet as lectures and PowerPoint presentations.
DELTA - Disaster Emergency Logistic Telemedicine Advanced Satellites System
SRU OP 2000
Robert-Roessle-Clinic and MDC, Charité - University Medicine Berlin, Lindenberger Weg 80
13125 Berlin
Germany

Contact: Dr. Georgi Graschew
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www.rrk-berlin.de/op2000

Partners:
- Centre National d’Etudes Spatiales, CNES (F)
- Institut de Médicine et de Physiologie Spatiales, MEDES (F)
- European Aeronautic Defence- and Space- Company EADS: EADS-MS&I (F)
- Alcatel Space Industries (F)
- SPACEBEL (B)
- EADS-Dornier Mobile Systems (MOSYS) (D)

In DELTASS (co-funded by ESA) a disaster scenario was analysed and an appropriate telecommunication system for effective rescue measures for the victims was set up. Satellite-based systems are well suited for these circumstances, where generally ground infrastructures are partly or even totally destroyed. In such situations, even on a large geographic area, space-based services can easily and quickly be deployed. The DELTASS-project has demonstrated the operational performance of various services, covering the different aspects/phases of disaster emergency medicine. Based on a Workstation for Telemedical Applications via Satellite (WoTeSa) using the Wavelet-based interactive Video communication system (WinVicos) a satellite-based telecommunication system was finally realised for the telemedical communication between a MFH (Mobile Field Hospital) in the disaster area and a RH (Reference Hospital) outside of the disaster area. In the RH medical experts can support the medical treatments in the MFH as well as a quick and reliable decision on to which hospital a victim / patient needs to be evacuated (early triage). Both in the MFH and in the RH WoTeSa / WinVicos are used, as it combines the user-friendliness and flexibility of IP-based communication protocols with the sufficiently-high quality of the live transmission given the satellite bandwidth of 2 Mbit/s.
http://telecom.esa.int/telecom/www/object/index.cfm?fobjectid=750
With explosive population increase and longer lifespan, healthcare has become one of the most important issues that people have to face with. There are studies, which estimate that 50% of all diseases are chronic. Latest reports show that some of the most important ways in increasing the quality of life and decreasing healthcare costs are preventive care, patient involvement in treatment procedure and efficiency in healthcare cost management. Curonia Research uses unique doc@HOME concept for care of citizens by allowing them to take active role in the medical treatment process while greatly lowering the cost of overall healthcare. Our goal is to target the population with special needs where remote care and health related data exchange will provide services improving their life quality, life freedom and increased control over their condition. By doing all that we expect to cut overhead costs up to 50% by delegating more responsibility to patients themselves and providing convenient tools for self-care. Doc@HOME concept is easily adaptable to different patients groups such as patients with heart rhythm disorders, ischemia, diabetes, asthma, heart disease, and hypertension to mention a few.
eHealth & Healthcare - Issues And Challenges Before IRMS
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Partners:
- Central Hospital, South Eastern Railway
- Indian Railway Medical Services
- Indian Association for Medical Informatics

Irms- An Overview
Current Ehealth & Healthcare Scenario
Global Ict Initiatives
Difficulties Faced
Issues & Challenges In The Horizon
Possible Drivers Of The Future
Health Vision In Indian Railway Medical Service
EMISPHER - Euro-Mediterranean Internet-Satellite Platform for Health, medical Education and Research
SRU OP 2000
Robert-Roessle-Clinic and MDC, Charité - University Medicine Berlin, Lindenberger Weg 80
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Partners:
- Eutelsat (F)
- Telemedicine Technologies S.A. (F)
- IsMETT (I)
- ANDS (AG)
- EHTEL (B)
- University of Cyprus (CY)
- Ain Shams University and Egyptian Ministry for Health and Population (EG)
- CICE (F)
- IMA (F)
- SEPELM (F)
- FORTH (GR)
- Casablanca Medical Faculty (MO)
- Istanbul Medical Faculty (TU)
- NCSR Demokritos (GR)
- Tunis Medical Faculty (TN)

Aim of EMISPHER (2002-2004, co-funded by EU) is to establish an equal access for all countries of the Euro-Mediterranean area (France, Italy, Greece, Turkey, Tunisia, Cyprus, Egypt, Algeria, Morocco) to on-line services for health care in the required quality of service. The project is putting together the cutting edge European technology to provide an integrated satellite-internet platform, dedicated to health applications. Applications that are being developed are e-learning applications to develop the concept of cross-Mediterranean Virtual Medical University, real-time telemedicine applications for remote expertise and second opinion and shared management of the medical assistance file in case of repatriation of travellers or expatriates. A network of 10 expert centres (Medical Faculties and leading hospitals) are permanently interconnected and create a network of contributing medical centres able to foster the widest cooperation in the long term (contribution network). These centers are equipped with bi-directional satellite terminals enabling a permanent connection (2 Mbit/s) between various regional areas. These centres will work as “hub” centres for a wider network, built on the existing cooperation in the medical assistance area (distribution network). These centers will be interconnected using a technology enabling the exchange of multimedia patient record elements and electronic management of the workflow.

www.emispher.org
EUTIST-M
Project Coordinator: Polytechnic University of Valencia
Camino de Vera s/n
46022 Valencia
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E-mail: v hernand@dsic.upv.es
www.medicaltech.org

Partners:
- Project Coordinators:
  - Polytechnic University of Valencia (project coordinator)
  - ENEA – Ente per le Nuove tecnologie, l’Energia e l’Ambiente, Italy
  - CINECA – Consorzio Interuniversitario dell’Italia Nord-Orientale per il Calcolo
    Automatico, Italy
  - EPCC – Edinburgh Computing Centre, UK
- Project partners: more than 35 partners from industry, health care and research
  organisations coming from all over Europe

EUTIST-M is a cluster of 11 projects which goal it is to promote advanced information
technologies in various medical sectors.
EUTIST-M is financed by the European Commission through its 5th Framework Program for
Research and Development.
The projects are oriented to dermatology (ADAM, DERMA), radiology (CREAM, DISMEDI),
surgery planning (AQUATICS, VISU), orthopaedics (FRAFEM, ISAC), cancer screening
(AUTOSCREEN), intensive care units (IONIC), and hearing aid fitting (DEAF).
e-Vital
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Partners:
- INA
- SchlumbergerSema
- Mutuam
- Eurodiagnosi
- Brunel University
- Politechnic University of Athens
- Watford and Three Rivers PCT
- Netsmart

The UK pilot examines the use of telemonitoring in residential care homes. Normally such homes do not have doctors on site. Vital signs are monitored and the data is available to a remote doctor to assess the condition of a person who may have a health problem in order to determine appropriate management and care.
Hodges Heath Career - Care Domains - Model
114 Windsor Road
Ashton-in-Makerfield
Wigan, Lancashire WN4 9ES
United Kingdom

Contact: Peter Jones
Tel: +44 1204 696914
E-mail: h2cmuk@yahoo.co.uk
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Partners:
- Brian E Hodges [h2cm author]
- Peter Jones [Webmaster & Contributor]

An initiative to publicize a health and social care model, utilizing conceptual integration, with universal applications - especially when allied to effective Information & Communications Technologies. This model is a person/user centered, problem solving, engagement tool - designed in the 20th Century for the problems of the 21st Century.

This approach can support health educational, citizenry and community informatics initiatives.

A truly unique set of www links includes open source, visualization, information assurance, evidence based medicine, xml, markup languages, health telematics.
**IMPACT. Intelligent Medical Patient Record And Coding Tool**  
G. Pappa 3 Kallitechnoupoli  
190 09 Rafina  
Greece

Contact: Dr. Elias Papazissis

Tel: +30 210 6801555  
Fax: +30 210 6845089  
E-mail: info@hospitalathome.gr  
www.Hospitalathome.gr

Partners:
- Elias Papazissis MD, MSc, General Practitioner, Director of Hospital at Home Dept.  
- Hygeia Hospital, Athens.

IMPACT enables doctors, nurses and health care professionals to synthesize complex codes by simply combining and organizing code components that describe the patient-history and the physical examination findings in a user-friendly way.

The IMPACT software reproduces real text from the codes, which describes specific characteristics of symptoms, time of onset, duration, intensity, variations and physical signs. There are also codes to describe the negative (normal) findings, which are essential to differential diagnosis. All this while formalizing patient records.

Texts are no longer depended on doctors’ writing skills or on audio-typists’ abilities to comprehend and type medical terms correctly. Furthermore medical reports and entire patient files can be easily reproduced in the languages of choice.

Among the multiple benefits of the use of IMPACT we can point out its valuable contribution to clinical research and quality improvement in health services.
INASP-Health
International Network for the Availability of Scientific Publications
PO Box 516
Oxford OX1 1WG
UK

Contact: Neil Pakenham-Walsh MD, Senior Programme Manager, INASP-Health
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www.inasp.info/health

Partners:
- BMJ
- Exchange (www.healthcomms.org)
- IICD
- Wellcome Trust

INASP-Health is a cooperative network of more than 1000 organizations and individuals worldwide, working together to improve access to relevant, reliable information for health professionals in developing and emerging countries. It is a specific programme of the International Network for the Availability of Scientific Publications, an international non-governmental organization founded in 1992 by the International Council for Science.

INASP-Health provides the following services for the international health information community:

1. INASP-Health Advisory and Referral Network http://www.inasp.info/health
4. ‘HIF-net at WHO’ email forum http://www.inasp.info/health/index.html#3
5. INASP Health Links http://www.inasp.info/health/links/contents.html

1. INASP-Health Advisory and Liaison Service. INASP-Health maintains an extensive database of the activities of network participants. Dozens of communications and enquiries are handled daily, facilitating collaboration, liaison, and sharing of experience and expertise. Participants are kept up to date with current events in the field through the INASP Newsletter.

2. Health Information Forum (HIF). The Health Information Forum is a series of thematic workshops, providing a neutral forum for discussion, debate, and sharing of ideas and experience among providers and users of health information. The workshops are open to all, and representation by colleagues in developing countries is enabled by the organization of study visits, and by email, satellite audiocasting, and videoconferencing.

Forthcoming HIF Meetings

INASP-Health is currently working with colleagues in Africa, Asia, and Latin America to explore the development of ‘HIF’ activities at regional and national level.
3. INASP-Health Directory. INASP-Health publishes "the" directory of organizations working to improve access to information for health professionals in developing countries. Available on the INASP website, the directory serves as a networking tool for building professional relationships and sharing information, and as a reference for those in resource-poor settings who are seeking support.

4. HIF-net at WHO is "the" email discussion forum dedicated to issues of health information access in resource-poor settings. Launched in July 2000 in collaboration with WHO, the forum is moderated, focused, and text-only. The list has more than 1,300 subscribers worldwide, including health professionals, librarians, publishers, NGOs, and international agencies. More than 40% of subscribers are based in developing and emerging countries. The address is hif-net@who.int.

Why join HIF-net at WHO?

* Be part of a worldwide community dedicated to improve access to health information
* Raise international awareness about your services
* Identify contacts and potential collaborators
* Find out about conferences, workshops, funding and training opportunities, useful websites, new publications...
* Learn from others...explore new ideas and perspectives...understand priorities and needs...collaborate to achieve common goals.

"HIF-net at WHO is the best list that deals with health information... in many ways. It seems to me that its membership is of very high quality, serious people, active people, people who seem to have a mission in delivery of health information." Dr. Najeeb Al-Shorbaji, WHO Regional Office for the Eastern Mediterranean

"The information that I have received from this resource has been crucial to my academic and professional survival in Ghana." Dr Victor Doku, Psychiatrist and Epidemiologist, Kintampo Health Research Centre, Ghana

"An extremely useful network regarding training, education and information technology initiatives in the developing world. I rely mainly on this list for information. I have made many useful contacts through the list which have greatly assisted my work." Dr Stephen Allen, University of Oxford 'E-learning Programme on Global Health', UK

5. INASP Health Links is a Gateway to selected websites that are of special interest to health professionals, medical library communities, publishers, and NGOs in developing and transitional countries. Available online, on CD-ROM, and in printed format.

6. Capacity-building programme. INASP-Health facilitates strategic and practical workshops within developing countries, at regional and country level.

Participation in the INASP-Health network is free of charge and without obligation.

* Join HIF-net at WHO! Email your name, affiliation and professional interests to health@inasp.info.
InFace
Netvision Ltd.
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1066 Nicosia
Cyprus

Tel: +357 22 55 1000
Fax: +357 22 67 8917
E-mail: inface@lgcom.net
www.inface.net

Partners:
- Guy’s & St Thomas’ NHS Trust (UK)
- Airial Conseil (F)
- Language and Computing (B)
- NetVision (CY)
- Optimum Knowledge Systems S.A. (GR)
- Eurodiagnosis (GR)
- Athens University of Economics and Business (GR)
- UJF Université Joseph Fourier (France)

InFace Project (IST-2001-38187) is part funded under the 5th Framework program of the European Commission within the Information Society Technologies (IST) Program.

The InFace web based system aims to contribute towards the creation of a health-knowledge infrastructure that will facilitate the retrieval of information in alignment to the needs and the personal characteristics of the health professionals, the institutions and the citizens.

InFace will provide health professionals with a user friendly web-based environment for accessing, retrieving and visualize in an easy to understand manner patients related information – within the domain of breast cancer – being stored into a wide variety of distributed, usually heterogeneous multimedia resources and databases. Health professionals will also be offered ubiquitous, timely and secure access to medical data at the point of care and through a variety of communication means and network infrastructures improving as a result their mobility in their everyday working life.

The general benefit of the InFace system will be the dissemination of medical information and most importantly medical knowledge, among professionals at the point of care. This in turn will greatly contribute towards the improvement of the decision making process of health professionals, and as a result improvement of their services to patients.
INFOBIOMED
Doctor Aiguader 80
08003 Barcelona
Spain

Contact: Ferran Sanz
Tel: +34 93 224 0302
Fax: +34 93 224 0875
E-mail: fsanz@imim.es
www.infobiomed.org

Partners:
- FUNDACIÓ IMIM (Spain)
- INSTITUT MUNICIPAL D’ASSISTÈNCIA SANITÀRIA (Spain)
- INSTITUTO DE SALUD CARLOS III (Spain)
- KAROLINSKA INSTITUTET (Sweden)
- U. OF EDINBURGH (UK)
- CUSTODIX N.V. (Belgium)
- U. POLITECNICA DE MADRID (Spain)
- U. DE AVEIRO (Portugal)
- FOUNDATION FOR RESEARCH AND TECHNOLOGY – HELLAS (Greece)
- FYNS AMT (Denmark)
- INFORMA S.R.L. (Italy)
- HEINRICH-HEINE-U. DUESSELDORF (Germany)
- ERASMUS U. MEDICAL CENTER ROTTERDAM (The Netherlands)
- DANISH HNPCC-REGISTER, HOVEDSTADENS SYGEHUSFÆLLESSKAB, HVIDOVRE HOSPITAL (Denmark)
- VERENIGING VOOR CHRISTELIJK WETENSCHAPPELIJK ONDERWIJS and U. VAN AMSTERDAM - ACADEMISCH CENTRUM TANDHEELKUNDE AMSTERDAM (The Netherlands)
- ASTRAZENECA AB, (Sweden)

The idea of INFOBIOMED is to create a stable and lasting RTD structure on Biomedical Informatics. Biomedical Informatics is an emerging discipline placed in the confluence between Bio-informatics (computer science applied to the analysis of the genomic and proteomic information) and Medical Informatics (information technologies to support healthcare). These disciplines have been developed in an independent form, but show now great opportunities for interaction and synergistic cooperation.

The genomic revolution is offering interesting opportunities for significant improvements in disease prevention, diagnosis and treatment, with a view on continuity and individualisation of healthcare, with the aim of improving the health and quality of life of the citizens, as well as to efficiency of the expenditure of the healthcare system. This new approach (Genomic Medicine) needs a parallel development of innovative strategies and tools for information management and analysis, which are the ones afforded by Biomedical Informatics.

Therefore, the mission of INFOBIOMED will consist of providing scientific and technological knowledge and experiences on the application of information technologies to the Genomic Medicine.
MEDASHIP - Medical Assistance for Ships
SRU OP 2000
Robert-Roessle-Clinic and MDC, Charité - University Medicine Berlin Lindenberger Weg 80
13125 Berlin
Germany

Contact: Dr. Georgi Graschew
Tel: +49 30 9417 1630
Fax: +49 30 9406 3405
E-mail: graschew@mdc-berlin.de
www.rrk-berlin.de/op2000

Partners:
- D'Appolonia S.p.A. (I)
- Avienda (UK)
- Eutelsat (F)
- National Centre for Scientific Research, NCSR Demokritos (GR)

In MEDASHIP (2002-2003, co-funded by EU) an integrated system for telemedical consultations on board of cruise liners and merchant ships was set up and evaluated. Such a system should allow an improved medical care for passengers and crew members. In case of medical emergency on board of ships the usual procedure is that the medical staff contacts the closest support center via radio and asks for help and advice. However, the medical information that can be transmitted during a radio consultation is clearly too limited for the experts to give valuable advice. Often it is then decided to meet with a rescue team (e.g. in a helicopter) to have the patient transported to an expert center for further diagnosis and therapy, causing substantial extra costs. During the pilot phase, the medical centers of three ships have been equipped additionally with an ultrasound medical system and an electrocardiograph (12 channels), interfaced to a Workstation for Telemedical Applications via Satellite (WoTeSa) using the Wavelet-based interactive Video communication system (WinVicos), as well as a satellite terminal (VSAT) on a stabilised platform (e.g. stabilisation of the antenna with satellite tracking). In the three reference hospitals (RH's) a VSAT-terminal coupled to WoTeSa / WinVicos is used. In the MEDASHIP network every ship can communicate with any RH. The real costs for this 24-hour telemedical service have been evaluated. www.medaship.com
MEDICATE
University of Ulster at Jordanstown
Shore Road
Newtownabbey
Belfast BT37 0QB
Northern Ireland, UK

Contact: Prof. Norman Black
Tel: +44 2890 366125
Fax: +44 2890 366553
E-mail: Nd.black@ulster.ac.uk
www.medicate-online.org

Partners:
- University of Ulster (UK)
- CSEM (Switzerland)
- ERGO (Greece)
- University of Cyprus (Cyprus)
- University of Verona (Italy)
- MEDEA (Italy)
- Imperial College London (UK)

The MEDICATE project entails the development of a medication compliance enhancing solution. This solution consists of a device designed to assist personal medication management and an IT infrastructure that will link all stakeholders in the prescribe-to-intake chain for medication. The system has been designed and developed based on a comprehensive study of the human factors associated with poor levels of patient compliance. The project which began in May 2001, is headed by the Institute of Health Informatics at the University of Ulster and is funded by the EU under the Fifth Framework Information Society Technologies program. Currently, the prototype system(s) are undergoing a final phase of clinical evaluation.
MEMO - Medical Mobile Devices
Les Rives
86460 Availles Limouzine,
France

Contact: Clive Tristram

Tel: +33 5 49 48 98 21
Fax: +33 5 49 48 88 63
E-mail: ctristram@med-mobile.org
www.med-mobile.org

Partners:
- Txt SpA, Italy
- IBM Pervasive computing, Czech Republic
- Informa, Italy
- Language and Computing, Blegium
- Fundacio IMIM, Spain
- University of Cyprus, Cyprus
- University Hospital, Basel, Switzerland

To support the rapid uptake of mobile devices (MMDs) within the healthcare market building on the work being done by existing EU funded projects. The key objectives are:

- Create a business model to support the rapid take up and sale of mobile devices;
- Create an evaluation method for MMDs;
- Identify the key technologies and create an environment for their uptake;
- Create a web portal and observatory for MMDs;
- Propose actions to encourage interoperability and measure their impact;
- Share market knowledge between the partners to increase the effectiveness of their marketing and exploitation plans;
- Disseminate information about MMDs to interested parties.
Mobile Telemedicine Solutions: Application in Practice
Lomonosovsky ave. 31, build. 5
Moscow 119192
Russia

Contact: Oleg I. Orlov
Tel: +7 095 932 99 07
Fax: +7 095 932 99 07
E-mail: orlov@telemed.ru
www.telemed.ru

Partners:
- investment institutions
- clinical centers
- equipment producers
- communication providers

Elaboration and implementation of investment projects in the area of:

1. Development and application of mobile telemedicine solutions:
   - mobile complexes for patients monitoring in remote areas;
   - dynamic monitoring systems for workers of potentially dangerous industries.
2. Establishment of commercial home telemedicine service centers.
NeXOS - Remote rehabilitation using an intelligent exoskeleton with web-based control
EPICentre
University of Abertay Dundee
Dundee DD1 1HG
United Kingdom

Contact: David Bradley
Tel: +44 1382 308234
Fax: +44 1382 308688
E-mail: d.bradley@abertay.ac.uk

Partners:
- Barnsley District General Hospital, UK
- Sheffield University, UK
- Sheffield Hallam University, UK

Rehabilitation of the lower limbs is important to maintain or restore muscle function and control while moving the limbs passively can maintain soft tissue length and act to reduce pain for a range of clinical conditions. With continued time pressure on rehabilitation services and physiotherapists, there is a desire to develop robotic aids to assist in the repetitive nature of some exercises or Range of Movement tasks.

The NeXOS project is aimed at the development of a robotic aid that targets the lower limbs and can be operated in a range of environments including hospitals, community care centres and the users own home and controlled via the Internet. The programme is also concerned with the identification of key target groups along with matters such as system definition and configuration, interfacing for both physiotherapists and users, control and control strategies and design.
Online Caregiver Service for Homebound Elders & Disabled
1310 N. Sweetzer #104
Los Angeles, California 90069
USA

Contact: Kara Bennett, Ph.D.
Tel: +1 323 656 6780
Fax: +1 323 656 6780 (please phone before faxing)
E-mail: Ksmdances@cs.com
www.geocities.com/minddancers

We are developing a prototype of an online service for homebound elders and disabled to interact with their caregiver, family members, and physicians. The project involves assessment of a new method for helping people experience what they value when they have a chronic health condition. The method evolved over a seven year period of being caregivers for the project director's father who had dementia. Designing a "Spirit Memory Journal" helped bring what he loved into his daily life environment. The journal is an interactive story about the person's most important values, and involves the use of multimedia to help the person perform a desired task. We would like to offer the journal online and are looking for funding for the research involved.
Prevention and the Internet Supercourse
University of Pittsburgh
3512 Fifth Avenue
Pittsburgh, PA 15213
USA

Contact: Ronald E. LaPorte, Ph.D., Director, Disease Monitoring and Telecommunications, WHO Collaborating Centre, Professor of Epidemiology, Graduate School of Public Health

Tel: +1 412 383 2746
Fax: +1 412 383 1026
E-mail: ronlaporte@aol.com
www.pitt.edu/~super1/index.htm

Partners:
- FSU Internet Prevention Program (www.pitt.edu/~super1/national/index.htm)
- Islamic Global Health Network (www.islamichealth.com)
- Pakistan and India Health Networks (www.pitt.edu/~super1/index1.htm)

Q: What is the best means to improve public health teach and research?
A: Improve the lectures.

Q: How do we improve higher education lectures?
A: Have academic faculty worldwide share their lectures.

Q: Will faculty share lectures?
A: Yes, the Supercourse has 14000 faculty from 146 countries who created a Library of Lectures with more than 1700 lectures on the Internet with quality control, and cutting edge cognitive design. This is being shared worldwide.
PRO-ACCESS
Katedra Informatyki
Al. Mickiewicza 30
30-059 Krakow
Poland

Contact: Prof. Krzysztof Zielinski
Tel: +48 12 6173902
Fax: +12 6339406
E-mail: ehealth@cyfronet.krakow.pl
www.pro-access.org

Partners:
- Academic Computer Centre CYFRONET of the University of Science and Technology in Krakow, Poland
- Department of Informatics, National Institute and Library for Health Information, Hungary
- Kaunas University of Technology, Institute of Biomedical Engineering, Lithuania
- The European Centre for Medical Informatics, Statistics and Epidemiology of Charles University and Academy of Sciences (Euromise Centre), Czech Republic
- “Iucian Blaga” University of Sibiu, Romania

The ImPROving ACCESS of Associated States To Advanced Concepts In Medical Informatics (PRO-ACCESS) project focuses on creating a platform for promotion, dissemination and transfer of advanced health telematics concepts and experiences from development and deployment of telemedicine solutions to NAS. To achieve this, a Centre of Competence will be established to broaden the formula of the Krakow Telemedicine CoE existing in Poland, in order to coordinate publishing activities, events, trainings and intake of solutions from cooperating partners within EU and NAS. The main impact of the Centre will be a substantially improved awareness of state-of-the-art medical telematics technologies in NAS. The Krakow Telemedicine CoE will be thereby strengthened by increasing its networking with leading RTD centers in EU and NAS, and by training of research and professional staff of the Centre and target user groups of e-health solutions developed in the CoE.
Remote ECG consulting for rural population
P.O.Box 11515
Kharkov 61001
Ukraine

Contact: Dr. Roman V. Pavlovich
Tel : +380 572 171077
Fax: +380 572 546692
E-mail: tomogr@kharkov.com

Partners:
- Ministry of Health of Ukraine
- Institute of Cardio-Vascular Surgery of Academy of Medical Science of Ukraine
- Kherson Regional Cardiological Center
- Kharkov Regional Hospital
- TREDEX Company Ltd.

Project Goal: Establishing of a telemedical structure connecting rural ambulatories to leading cardiological centers of Ukraine for remote ECG diagnostics and consulting.

Project is based on 12-channel digital transtelephonic ECG system TELECARD designed and produced by TREDEX Company Ltd, Kharkov, Ukraine.
First stage of the project allowed to connect 20 district hospitals of Kherson Region to the Kherson Regional Cardiological Center. On the second stage 19 rural family ambulatories and first-aid posts were connected to the Kharkov Regional Hospital.
Intermediate project results allowed estimating important differences between two hierarchic levels of healthcare system in the sphere of practical use of telemedical technologies.

Next stages of the project intends establishing of telemedical system in other regions of Ukraine.
**Respiratory Telehealth**
1200 Hospital Bench
Trail, BC V1R 4M1
Canada

Contact: Margarita Loyola and Bev Lacasse

Tel: +1 250 364 3448
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www.interiorhealth.ca

Partners:
- Province of Quebec - CLSC du future

Chronic disease management needs to shift from Acute Care to the Community with an emphasis on supporting clients through medical events and preparing them to better manage their health care issues in the future. Best practice protocols have been developed in Community Care, and Telehealth provides a process for rigorous monitoring and follow-up of our COPD clients. Telehealth nurses would utilize all of the COPD protocols for the target population, which would create decrease demands on the acute care system (hospital admission rate, readmission rate, length of stay), encourage self-management and improve the quality of life for our clients. Respiratory Telehealth provides a system that enables Community Care nurses to efficiently monitor COPD clients, increasing our capacity to intensively manage these types of clients. Telehealth also provides a framework for chronic disease management that could be applicable to other chronic diseases across IHA.
Riga City Teleradiology System
Rātslaukums 1
1539 Riga
Latvia

Contact: Egils Stumbris
Tel: +371 7 105256
Fax: +371 7105253
E-mail: egils.stumbris@rcc.lv
http://itc.rcc.lv

Partners:
- Telemedicine and Videoconference Division RCC Information Technologies Centre
- Health Care Division of Riga City Council Welfare Department

Objectives of the project: To install radiological information system RIS, archiving and communication system PACS and videoconference centre to establish INTERNET and ISDN link for the Riga hospitals with other hospitals in Latvia and competence centers of foreign radiologists.

Activities:
- Purchasing of equipment and
- Staff training
- System testing and optimization
- Physician and society information about possibilities of telemedicine

The project will result in the following:
1. Unitary radiology network (RIS)
2. Centers of competence in radiology in which highly qualified medical experts are working, ensuring access to telemedicine consultations 24 hours per day
3. Central server for archiving radiological materials
4. Videoconference system
Salut! - Intelligent Environment for the Diagnostics, Treatment and Prevention of Eating Disorders
NetUnion
Avenue de Villamont, 19
1005 Lausanne
Switzerland

Contact: Tony Lam

Tel: +41 21 351 53 66
E-mail: lam@netunion.com
www.netunion.com

Partners:
- Hôpital de la Timone – Espace Arthur, Marseille, France (Administrative Coordinator)
- NetUnion SARL, Lausanne, Switzerland (Technical/Scientific Coordinator)
- CINDOC/CSIC, Madrid, Spain
- Hôpitaux Universitaires de Genève, Unité de Psychiatrie de Liaison, Genève, Switzerland
- Hôpital de Malévoz / IPVR, Montney, Switzerland
- Hospital Universitario 12 de Octubre, Madrid, Spain
- National Resource Centre for Eating Disorders (NÄT), Örebro, Sweden
- Conecta Srl, Udine, Italy
- VITAMIB SARL, Meylan, France

SALUT (www.salut-ed.org) will leverage advances in information and telecommunication technologies to design, prototype and validate innovative tools and cost effective strategies for prevention, diagnosis and treatment of eating disorders. The project has two main objectives: (a) to develop innovative tools for supporting the prevention and treatment of bulimia; (b) to facilitate the exchange of reliable information about eating disorders between health professionals, researchers and the general public.

A main project result is the implementation of an online Self-Help Guide (SHG) for outpatient treatment of Bulimia Nervosa. The SHG is based on Cognitive Behavioural Therapy (CBT) and contains seven sequential steps. Each step includes lessons, exercises, and examples designed to help the patient observe their own behaviour and develop a personal strategy towards recovery. A demo version of the SHG is available at http://demo.salut-ed.org/). The online SHG is the only structured treatment program for Bulimia Nervosa currently available in six languages (French, German, Spanish, Swedish, English, and Italian). Pilot studies conducted on the French version show promising results both in efficacy (reduction of symptoms) and in user acceptance. Controlled evaluation of the French, Swedish, Spanish versions will continue throughout 2004.

Another focus of the SALUT project is the implementation of regional research and prevention networks within the partner countries. These regional platforms play a vital role in supporting information exchange between health professionals, researchers and other stakeholders by offering newsletters, events, index of organisations, conferences, eating disorder FAQs, etc. The regional networks also played a major role in the dissemination of prevention recommendations based on the “Mediterranean Diet” developed in collaboration with other EU projects in the “Citizen” health cluster. These recommendations were disseminated in prevention programs organised by local school districts and health authority in Spain and were one of the project’s success stories.

While the project targets only specific areas within a domain, we expect the tools and other project results to serve as building blocks for a new patient environment supporting a more collaborative relationship between doctors and their patients and expanding patient access to high quality health care through the integration of innovative technical solutions.
Septemvri Telecenters
Bulgarian Academy of Sciences
Solar-Terrestrial Influences Laboratory
Acad. G. Bonchev St. Block 3
1113 Sofia
Bulgaria

Contact: Tsvetan Dachev
Tel: +359 2 870 0307 / +359 2 979 3209
Fax: +359 2 870 0178
E-mail: tdachev@bas.bg
www.stilrad.bas.bg / www.stil.acad.bg

Partners:
- Bulgarian Ministry of Transport and Communication
- Bulgarian Association of Telecentres
- Bulgarian Telecommunication Company
- Septemvri Community, Bulgaria
- Community Medical Centres, Bulgaria
- Telemedicine Group, Solar-Terrestrial Influences Laboratory at Bulgarian Academy of Sciences
- BDT/ITU

The overall objective of this project is the field trial of deployment of Wireless IP Based Systems in Rural Areas that will allow the successful pilot to be used as a model for future full-scale implementation of IP-based, wireless infrastructure in rural areas.

The specific objectives of the pilot project are:
- To test the suitability of packet-based wireless access infrastructure for delivering multimedia applications in rural areas.
- To provide an easy access to data and voice services, where needed, in rural area and hence to:
  - Provide adequate telemedicine care (tele-cardiology, tele-dermatology and tele-psychology) in the fields of tele-consultation, tele-diagnostics, tele-treatment of people at any time;
  - Increase access to medical information;
  - Stimulate the development and growth of local businesses;
  - Develop ICT skills among the local population and
  - Increase access to education facilities.
Supporting Independence - New Products, New Practices, New Communities
Tanaka Business School
Imperial College London
South Kensington Campus
London SW7 2AZ
United Kingdom

Contact: Prof. James Barlow
Tel: +44 20 7594 5928
Fax: +44 20 7823 7685
E-mail: j.barlow@imperial.ac.uk
www.imperial.ac.uk/tanaka/innovation

Partners:
- Imperial College London
- University College London
- University of Dundee
- Barnsley District General Hospital NHS Trust
- Anchor Trust
- Thomas Pocklington Trust
- Tunstall Telecom Ltd.

This three year project, which began in October 2003, is investigating the deployment of telecare for elderly people living in contrasting housing settings. Its key aims are to:

• Evaluate packages of telecare technology in terms of their potential role in promoting independence, the ease with which they can be deployed and their generalisability to differing housing settings
• Develop service and business models that integrate telecare with mainstream care delivery processes
• Develop improved evaluation tools and techniques for modelling user needs and matching them to technological solutions
• Investigate the wider implications of introducing telecare solutions for local care systems

The research is being carried out in a new ‘care village’ being developed by Anchor Trust in Denham, Buckinghamshire, an extra care housing scheme developed by Thomas Pocklington Trust in Plymouth and the existing general housing stock in Barnsley. These represent ‘live laboratories’ to test and demonstrate the mainstream implementation of telecare and design solutions.

The research is funded by the Engineering and Physical Science Research Council under the EQUAL Programme (GR/S29058/01)
Telemedicine & eHealth Directory

**Tele-3D-Computer Assisted Surgery (Tele-3D-CAS)**
Department of Otorhinolaryngology-Head & Neck Surgery
Zagreb 10000
Croatia

Contact: Prof. Ivica Klapan MD, Ph.D.
Tel: +385 1 4920 038
E-mail: telMED@mef.hr
www.mef.hr/MODERNRHINOLOGY

**Partners:**
- Referent Center for Computed Surgery and Telesurgery, Ministry of Health, Croatia
- Croatian Telemedicine Society, Croatian Medical Association, Croatia
- Telemedicine Association Zagreb, Croatia
- Department of Otorhinolaryngology H&N Surgery, Zagreb University School of Medicine, Zagreb, Croatia
- Mechanical Engineering Faculty of Slavonski Brod, University of Osijek, Croatia
- Faculty of Electrical Engineering and Computing Science, University of Zagreb, Zagreb, Croatia

One of the main objectives of our project was to design a computer assisted 3D-approach in presurgical planning, intraoperative guidance and postoperative analysis of anatomical regions of the nose and paranasal sinuses ([www.mef.hr](http://www.mef.hr)/3D-CFESS). The idea was born in the early '90s, and our first operation of this kind was done in May 1994 ([www.mef.hr](http://www.mef.hr)/warwounds). Such an extremely powerful approach should allow a better insight into the operating field including significantly greater safety of the procedure itself ([www.mef.hr](http://www.mef.hr)/orbit). Using our own approach in computer assisted functional endoscopic sinus surgery, we were able to "look inside" the patient, during the real surgical procedure.

Telesurgery, as a specific part of telemedicine, consists of two or more operating rooms connected with a computer network. Through this network two encoded live video signals from endo-camera and operating room camera are transferred to other remote locations involved in the telesurgery/consultation procedure.

Our telesurgery approach allows surgeons not only to see and to transfer video signals, but also to transfer 3D computer models and surgical instrument movements with image/3D-model manipulations, all together, in real time during the surgery ([www.mef.hr](http://www.mef.hr)/Tele-FESS). We use JPEG, MPEG2 and MPEG4 encoders and decoders, ATM communication equipment, graphic workstations, 3D digitizers and standard endoscopic surgical instruments.

The new video encoders using MPEG2 and MPEG4 standards and ATM computer networks using inverse multiplexing, greatly improve the safety of surgical procedures, especially in endoscopic surgery. The best results are obtained using ATM-OC3 technologies, with the most acceptable price-performance using inverse multiplexing method across 4-8 E1 lines ([www.mef.hr](http://www.mef.hr)/MODERNRHINOLOGY).

**Literature:**
Teleconsultative Service Network
Lomonosovsky ave. 31, build. 5
Moscow 119192
Russia

Contact: Tatiana G. Bruskina

Tel: +7 095 932 99 07
Fax: +7 095 932 99 07
E-mail: tbruskina@telemed.ru
www.telemed.ru

Partners:
- Clinics and telemedicine centers of Russian regions
- Leading Russian clinical consultative centers
- Clinical consultative centers of Europe and US

Telemedicine Foundation built a corporate teleconsultative service network for the Russian regional telemedicine center and local clinics, and for the private patients. The teleconsultative network provides services off-line and via videoconferencing. Telemedicine Foundation elaborated and introduced into practice the technological and legal bases for commercial teleconsultative services. Telemedicine services are provided by leading clinical centers of Russia, Europe and US.
Telemedicine & eHealth Directory

Telemedicine Communications System in Telecardiology in Riga
Rātslaukums 1
1539 Riga
Latvia

Contact: Egils Stumbris
Tel: +371 7 105256
Fax: +371 7 105253
E-mail: egils.stumbris@rcc.lv
http://itc.rcc.lv

Partners:
- Telemedicine and Videoconference Division of Riga City Council
- Municipal Non-profit Organization SIA Clinical Hospital “Gaiżezers”
- Municipal Non-profit Organization SIA “Riga Hospital Nr 1”
- Riga Ambulance Station
- Emergency Medicine Centre of the Republic of Latvia Ministry of Health
- passenger ferry “Baltic Kristina”

Goal of the project is to implement a single telecommunications system in tele-cardiology, which would ensure provision of tele-cardiology services in Riga.

Activities:
- Purchasing and installing of equipment and software
- Staff training
- System testing and optimization
- Physician and society information about possibilities of telecardiology

The project will result in the following:

1. Implemented cardiology telecommunications system covering Riga Ambulance Station, Emergency Medicine Centre of the Ministry of Health of the Republic of Latvia, Municipal hospitals - Riga Hospital No.1, Clinical hospital “Gaiżezers” and passenger ferry “Baltic Kristina”.

2. Implemented telemedicine telecommunications system covering passenger ferry “Baltic Kristina” and Emergency Medicine Centre of the Ministry of Health of the Republic of Latvia, Telemedicine and Videoconference Group of Riga City Council, the Coast Guard of Sweden and clinics of Goteborg linked to it. High quality and safe provision of services available to Latvia’s residents and to foreign tourists.
Telemedicine & eHealth Directory

Telemedicine in Russia
Lomonosovsky ave. 31, build. 5
Moscow 119192
Russia

Contact: Oleg I. Orlov
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Fax: +7 095 932 99 07
E-mail: orlov@telemed.ru
www.telemed.ru

Partners:
- Russian clinical and scientific centers
- regional telemedicine and clinical institutions
- telemedicine equipment producers
- communication providers
- business groups

Project on creating a unified telemedicine service in the Russian Federation for the low-income and socially unprotected strata of population, for victims of terrorism and natural disasters.

Project features:
- Uniform telemedicine information system;
- Unified system for providing teleconsultation services to population;
- Telemedicine technology for support of preventive and rehabilitation measures;
- Telemedicine for urgent conditions, man-caused and natural disasters;
- Telemedicine dynamic monitoring systems;
- Incorporation of telemedicine training procedures into telemedicine aid to victims of terrorism;
- Telemedicine aid to civilian population in locations of military or anti-terrorist operations;
- Telemedicine provision for organizational-administrative and legal activity in the public health care system.
Telemedicine Support System for ISS and Mars Missions
Lomonosovsky ave. 31, build. 5
Moscow 119192
Russia

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Fax: +7 095 932 99 07
E-mail: orlov@telemed.ru
www.telemed.ru

Partners:
- State Research Center of the Russian Federation
- "Institute for Biomedical Problems" of the Russian Academy of Sciences (IBMP)
- Mission Control Center
- Space Biomedical Center for Training and Research

Development of a telemedicine support system for the Russian node of the International Space Station (ISS). System integration with appropriate systems of other ISS participants and Russian terrestrial telemedicine network.

Development of medical support system telemedicine component for the manned mission to Mars.
Telepsychology and Telesexology: Video-Counseling
Via Meldola, 35
47900 Rimini
Italy

Contact: Dr. Andrea Ronconi
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To study the operative context for psychological counseling on-line in direct audio-video connection by Internet. A highly technological context, where one can identify with various environments and a multitude of settings. The experimental applications of telepsychology and telesexology are conceptualized like integrative tools of traditional, vis a vis, psychological approach. Are hypothesized applications of this new tool in to rehabilitation programs and to promote sexual, relational and health education, crisis intervention and management, emergency psychology, and in psychological treatments of anxiety disease by a behavioural-cognitive perspectives.
Finally, the author emphasises the need for well-founded scientific experimentation designed to evaluate the application outcomes of remote psychological video-counseling by UMTS.
Tele-Wound Care Management
1200 Hospital Bench
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www.interiorhealth.ca

To ensure the best possible care to patients with wounds, this project will be implementing an innovative use of a digital camera system and software – “Pixalere”. This new state of the art method of reviewing wounds would enable the Enterostomal Therapy (ET) nurse to provide expert and timely assistance with difficult to heal wounds to the home and community nurse.

The home & community nurse takes images of the wound using a digital camera. The pictures are sent to the ET nurse instantly through a wireless network, observations and other information can also be sent.

The ET nurse processes the wound image, observations, and other information; diagnoses the state of the wound; and recommends a treatment plan.

High-quality photographs can be a visual confirmation of the state of a wound and can serve as an extremely useful adjunct in monitoring response to therapy in large wounds that tend to heal slowly. Photographs can also serve as teaching material for health care professionals.
The Litmed2 Project
c/o TietoEnator Public & Healthcare AB
Box 4557
203 20 Malmö
Sweden

Contact: Lars-Olof Almquist
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www.litmed.net

The Litmed2 project was initiated at the end of 2002 and is a business oriented health care project within the discipline of pathology. The vision of the project has been to be part of a long-term development process of e-Health development in the Baltic Sea Area.

Some important goals for the project have been:
- To establish a well-functioning IT support for the pathology department in Kaunas, Lithuania, with the possibility of handling digital images and using distance consultation.
- Encourage the possibility for Swedish IT-businesses within health care to demonstrate their products and services during the project.
- To initiate a network between pathologists in the Baltic Sea Area.
- To develop useful telemedicine support for the pathology departments.

Within the project a computerized pathology information system, Sympathy, has been installed and adapted for Lithuanian conditions.

Two software tools have been developed for telepathology use: Medipas, which is an interactive communication and image handling software and WEB Service for pathology which is a tool to assist pathology doctor in estimation of Labeling Index (LI) in Immunohistochemical images.
TI - jPACS operating system-independent platform for medical picture-processing-methods
Theoretical Concepts and new Applications of Computer Science
Arbeitsgruppe Institut für Telematik
Universität Trier
Universitätsring 15
54286 Trier
Germany

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www.dicom.telematik-institut.org

TI - jPACS is a radio-logical Workstation with distinctive Teleradiology functions. The basis of the system is a software, that can receive digital medical pictures per DICOM or proprietary interfaces, processes and send it. The visualization functions correspond to those of a classic Radiological –Workstation. The speciality of TI - jPACS is his/its free-availability, platform-independence and additional expandable-ness over a Plug In - mechanism. This can be existing applications that are integrated into the user-interface of the system or new modules, which have interfaces to all components of the basis-system.

To presently available extension elements belong:
- **DICOM Send** that accomplishes data exchange over standard network protocols (OSI and TCP/IP, DIMSE);
- **DICOM Database Explorer** with the concrete conversion of the DIMSE- C services from SOP classes: Verification (C-Echo), Query /Retrieve (C-Find, C-Get and C-Move);
- **DICOM-CD/DVD Creator** that by the creation of a DICOM-DIR file, employment of a professional platform-independent DICOM -Viewers and very high user friendliness during the CD/DVD creation process is characterized in particular;
- **DICOM Format- Converter** for JPEG; BMP, TIF, AVI, DICOMZIP formats;
- **E-Mail** with a DICOM file invariably, as the JPEG file, when DICOMZIP-file or as AVI-file can be sent;
- **Secure - E- Mail** with S/MIME (RFC2311, RFC2312), with an own key and certificate administration (after x509 v.3 standard) and an address book that linked with it.
Trends of telemedicine development in Lithuania
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50009 Kaunas
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Fax: +370 37 302959
E-mail: apaun@delfi.lt
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Partners:
- TietoEnator Trigon AB
- St.Erik Eye Hospital (Stockholm)
- Kaunas University of Medicine
- Kaunas University of Technology
- Euromed Networks AB
- Health and Medical Care Committee, Stockholm County Council.

Teleconsultations and second opinion. The telemedicine network for clinical practice with main attention paid towards patient and physician next to him is used.

Distance education. The use of existing distance education center in Kaunas University of Medicine allows the distant education of medical staff in Lithuania. Videolectures between foreign countries and different regions of Lithuania take place (to Klaipeda, Panevezys, Siauliai).
The courses of distant education ISDN and Internet based for general practitioners are under preparation. The live demonstrations from surgery and consultations will be used beside the usual teaching material (text, images).

Creation of international databases, information exchange and research. Research based on clinical practice and provided both on medical and technological sides. Research areas are ophthalmology, otorhinolaryngology, pathology, dermatology, cardiology, obstetrics-gynecology. Teleconsultations and image processing with ophthalmologists from Lund University via Internet take place.
WardInHand
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20126 Milano
Italy

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www.wardinhand.org

Partners:
- TXT e-solutions (IT)
- Relational Technologies (GR)
- BMT (UK)
- Department of Informatics and Information Sciences - University of Genoa (IT)
- Department of Endocrinology and Metabolism - University of Genoa (IT)
- Corporació Sanitària Clinic - Barcelona (E)
- Staedtische Kliniken Offenbach (D)

WardInHand is an advanced, yet easy to use secure mobile application dedicated to supporting healthcare professionals in their day-by-day ward activities. It allows users to add, edit and display patient information taking advantage of wireless connectivity and natural human computer interfaces including pen based and speech recognition technologies, replacing current procedures based on manuscription and transmission of data.

WardInHand is also a workflow management system (WMS). It keeps track of actions planned by users (such as tests and prescriptions) dispatching ward-based tasks to the involved resources. The WMS is configurable to provide appropriate guidance in scheduling and coordinating actions according to Hospital and Ward based processes.

Key Features include:
- State-of-the-art technologies incorporating a web based interface designed for use on handheld devices (under Microsoft PocketPC and Linux), and a wireless network infrastructure combining both handheld and Desktop devices that can be used simultaneously;
- Efficient and user friendly data entry and editing facilities utilising new technologies in pen based and speech recognition (English, German, Italian, Spanish) functionality for handheld devices;
- Ability to utilise existing Patient Data from Hospital legacy systems and to export all WardInHand Patient Information back to a legacy system once a patient’s Care Pathway (and relevant episodes of care) has been completed;
- The incorporation of European IT standards for Security regarding the encryption and transmission of all data over a wireless network (using Secure Socket Layers);
- Offline workflow design tools to edit, review and implement Hospital and Ward based workflow processes.
Web4health
Wilschenbrucher Weg 84a
21335 Lüneburg
Germany

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Partners:
- Prof. J. Palme, KTH University Stockholm, Sweden
- PD P. Skapinakis, University Ioannina, Greece
- P. Rijnders, Emergis Goes, Netherlands
- G. Palme, psychotherapist, Stockholm, Sweden
- F. Piccini, psychiatrist, Rimini, Italy
- J. Brammer, Netdoktor Copenhagen, Denmark
- Omega Generation, Bologna, Italy

Development of a multilingual natural language question answering system for mental health and psychology. Psychotherapists from Sweden, Greece, Italy, Netherlands and Germany answered more than 700 questions related to common problems of psychology and psychiatry. These answers are included in a template based expert system using a natural language interface. This automated FAQ-system (Frequently asked questions) will give the user a set of appropriate answers related to an individual question posted to the system. If no answer is yet available in the system an ask-the-expert service is offered. These answers will be included in the database to optimize the content for future use. At the present time we have an English, German, Swedish, Greek and Italian webpage, but we are open to future collaboration with partners in other language regions. The project was funded by the European Union (eContent program) and is limited until June 2004. We hope to be able to continue the project after the official funding period. Actually more than 800000 hits per month demonstrate the worldwide interest of the internet users. Project page at www.web4health.info/KOM2002.
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Voluntary organization by membership

Telehealth/telemedicine information exchange among health workers, information scientists, librarians, etc.