

About MedTech Innovation

MedTech Innovation is an innovation network established in 2014. MedTech Innovation's primary object is to facilitate growth in the Danish medical device industry.

We believe in creating a neutral platform, to facilitate the meeting between industry, research and healthcare providers and ensure that new products are developed fast and with a high regard for clinical needs.

MedTech Innovation works with

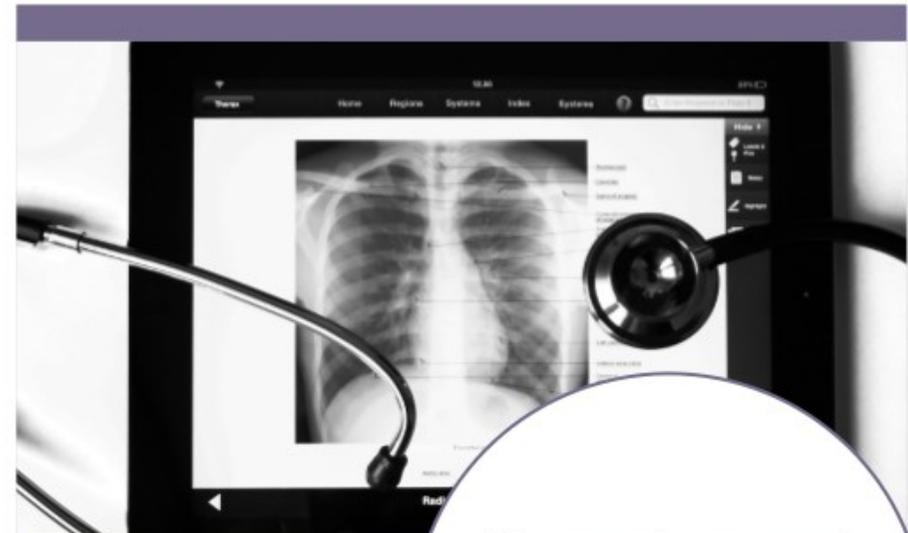
- supporting innovators and startups in gaining access to hospitals, research & testing
- supporting collaboration between public and private sectors within the medical device industry
- facilitating networking and innovation exchange activities in Denmark and internationally

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MedTech
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Floorplan and
project
descriptions

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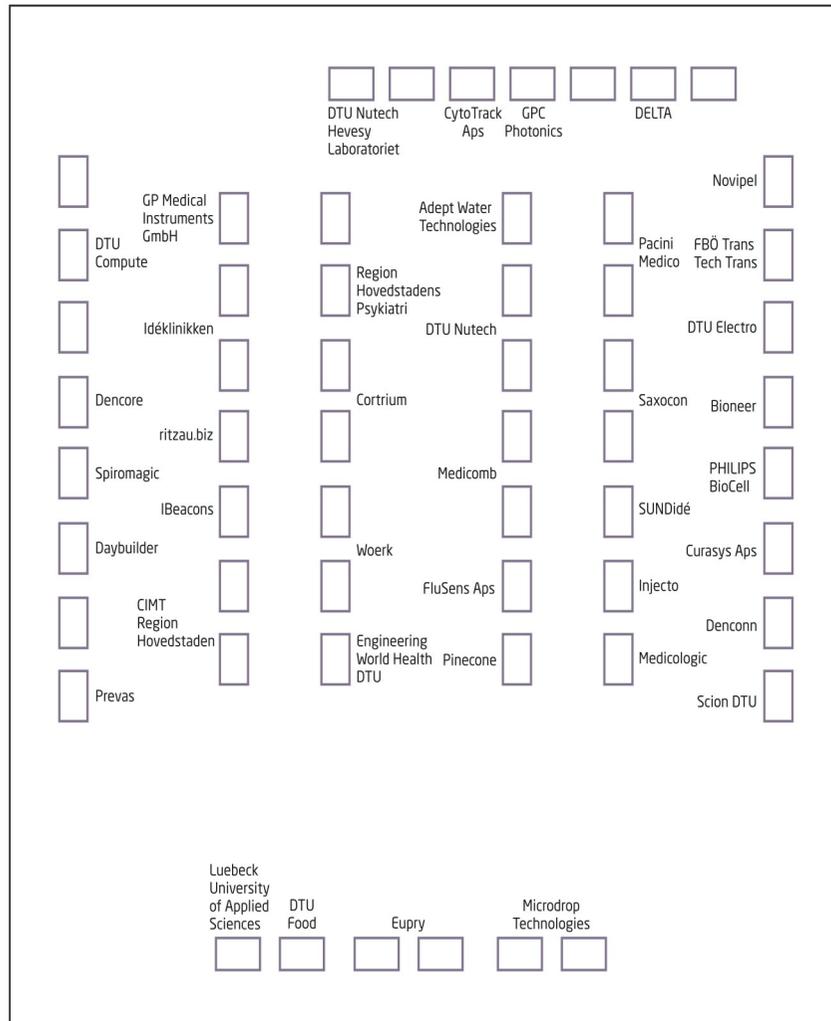
MITIC
Medical Innovation
Technology Center

BIO
MED

Scion DTU

Udvalgte og
Forskingscenteret
Styrelsen for Forskning og Innovation

Floorplan



INSPIRIT DENMARK

Established in 2012, INSPIRIT DENMARK is a med-tech innovation company. We focus on developing novel therapies and medical devices for respiratory application. Our mission is to develop user-oriented self-care solutions for consumers to protect, maintain and cleanse the respiratory system.

First product BREATHOX® is a novel, non-medical OTC inhaler indicated for relief from congested airways by accelerating mucociliary clearance. BREATHOX® contains hyperosmotic micro particles (2-5µm) designed for optimal respiratory deposition. Launch (DK/IS) is scheduled for May 2015.

DTU—Elektro Electrophysiological biomarkers of Parkinson's disease

It has been shown that people suffering from a sleep disorder called iRBD have a significantly increased risk of developing Parkinson's disease (PD). There is no cure for PD, and the treatment is purely symptomatic and do not alter the underlying disease progression.

If a neuroprotective agent becomes available, early identification is essential necessitating detection of early PD biomarkers. This project reveals potential PD biomarkers found in sleep signals of patients with iRBD and PD.

GPC Photonics

Generalized Phase Contrast is a disruptive light sculpting technology for studying brain functionalities via light-activated neuron control. GPC dynamically reshapes conventional or multi-wavelength lasers for precise and efficient neuron targeting. GPC also makes existing laser systems much more efficient through intelligent laser illumination.

App Acute from Woerk Aps:

About 15 percent of births at Odense University Hospital, Denmark end up with an acute cesarean. App Acute is a new smartphone based system, which allows a very fast alert and response time, with the added benefit of build in data collection, happening in the background.

The App Acute system gives an unprecedented level of situational awareness and control to the caesarean coordinator, and thus increases the chance of success and at the same time minimizes the waste time and resources compared to more conventional systems.

The App Acute system measures response time for each step in the process, and the rich data allows a solid data driven approach to continued quality improvement.

www.woerk.dk

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Ideklinikken

Idéklinikken (the Ideas Clinic) is an innovation department affiliated to Aalborg University Hospital and the North Denmark Region. We aim to bring good ideas to the market in collecting, testing and realizing good ideas related to professional health-care.

We are interested in all kind of challenges ideas and inventions — from our clinical staff as well as from patients and relatives.

We are able to deal with good ideas and follow them all the way through. We are a team of specialists within different fields — right from idea, project development and industrial design to commercial law and commercialization.

Idéklinikken provides you professional sparring and advice in order to qualify your idea get it realized and possibly patented.

Region Hovedstadens Psykiatri

Bipolar disorder is a common and complex mental illness characterized by depressions and (hypo) mania(s). Electronic monitoring using smartphones is a promising tool for continuous monitoring of symptoms and is providing opportunities for early intervention on prodromal symptoms. We will at this research exhibition present the MONARCA and Monsenso system for electronic monitoring of symptoms in bipolar disorder using smartphones.

FluSens ApS

FluSens ApS provides with a novel, easy to handle and inexpensive sensor technology to detect pathogens or their biomarkers in body fluids with electrical readout in Point of Care setup. The device provides a quantitative result of the test in less than 5 minute and will cover a wide range of different pathogens. Contrary to other POC tests, the FluSens system is capable for selective and accurate testing of a number of pathogens in the same time, and the measured data are available in a digital format, which can be integrated in existing data management systems.

Adept Water Technologies A/S

Adept Water Technologies A/S is a Danish CleanTech company developing and manufacturing superdisinfected water for dental and medical use. The focus of the products is on simplicity, reliability and efficiency. The BacTerminator technology used naturally occurring salt in the water to produce chlorine, and thus offers chemical disinfection without the handling of chemicals. The shown products are the new generation of disinfection products, that provides a complete filter, softening and disinfection solution to the market.

iBeacons in the public healthcare

Location based information may be used to improve and optimize healthcare. This study has investigated the use of iBeacons for wireless communication to optimize the workflow and daily routines for healthcare employees as well as looking at benefits for patients. Several stakeholders from the hospitals in the Capital Region, Denmark were involved in the project to discover relevant cases for the iBeacon technology. The iBeacon technology, the key findings and most promising cases will be demonstrated.

The study is a bachelor thesis by Marie Maj Madsen, Danmarks Tekniske Universitet in cooperation with Center for It, Medico og Telefoni, Region Hovedstaden, Denmark.

PineCone

The PineCone software and hardware (patent pending) uses a standard Nintendo Wii board (or any third-party board) to objectively measure balance, reaction time and muscle strength in the upper and/or lower limbs. The software has been developed with an Apple approach – making it simple, fast and easy to use.

PaciniMedico

PaciniMedico is a Nordic research based company developing evidence based, non-invasive, non-pharmaceutical, online, mobile enabled chronic pain management services for professional and private use anywhere, anytime.

Spiromagic

Spiromagic is self empowerment

Spiromagic is since January 2012 developed BY patients, FOR patients. The purpose of Spiromagic is to see if changes happen over time. Are your lungs affected by weather, stress, allergies, pollution or something else? And can you do something to prevent breakdowns and illness. Spiromagic is able to show changes in your lung function, if you change medication or habit.

Spiromagic is a smartphone based spirometer. It consists of an electronic device to measure your lungs and an app that can receive the measurements. You can buy Spiromagic so you can measure yourself at home or on the road. Spiromagic can measure a person's lung function and hereby let the person know more about his/her lung function. The information is transferred wirelessly from the electronic device, to a smartphone and you have the possibility to share this information with others like relatives or GP's.

Cortrium

The Cortrium device is developed to meet the demand for a small, modern, reliable, and open medical grade vital sign monitoring system. The device is based on state-of-the-art technologies while remaining inexpensive as it is fabricated from high quality off-the-shelf components.

MedicoLogic—LiNA Xcise

In close cooperation with LiNA we developed LiNA Xcise. Together we met all the desired specifications and selling points and developed a safe, simple to use and competitive product in only 14 months. The process of developing LiNA Xcise is representing a new trend of converting old, large, complicated products into small, handy, easy to use, cordless products. At Medicologic we work with well-structured processes bringing both innovation and technology into the development process. In this case Medicologic provided construction and mechanical solutions – fitting motor, gear, battery and usability into an ergonomical handheld plastic shell.

Injecto

We believe that everyone is entitled to safe medical treatment. Injecto combines a drug container and injection device in a compact injection unit safeguarded against reuse and drug tampering.

Our design offers a drug container and a user-friendly injection unit as replacement for traditional vials, ampoules and injection devices.

The compact package and dual functionality of the needle cap considerably reduces volume and weight of the product and the risk of inadvertent plunger activation. It can be delivered in various volumes with needles in different lengths and diameters, and the component materials provide good chemical resistance and barrier characteristics. Injecto offers an affordable genuine Solution 1 AD compact injection package.

Prevas

World breaking technology: The Acarix CADScor® System is built on famous Danish acoustic knowledge, design and engineering skills. Brief: In order to help bringing down the number of unnecessary heart scans, Acarix wanted to develop a whole new and never seen tool for more effective diagnosis. Solution: Prevas develops this revolutionary highly advanced microphone based sensor, that on basis of scoring, determines the risk of serious heart diseases and the need of further scans. Benefit: Diminishes unnecessary heart scans. For more please see www.acarix.com

Bioneer

Bioneer will showcase a number of technology platform concepts:

- Body simulation models (gastro intestinal system, lung, brain, immune system)
- Live cell engineering platform will be showcased.
- Biomarker discovery and analysis

MediComb

MediComb Medicines Information and Decision Support System:

As the proportion of older patients in the population increases and pharmaceutical therapy intensifies the risk of increased adverse drug reactions, hospitalizations and mortality rise with substantial public economic consequences and loss of quality of life.

The MediComb system is capable of combining information of several simultaneous drugs for improved management of polypharmacy, Decision Support or delivering unique medicines information. The system is characterized by international researchers as an "obvious brilliant idea".

It enables the sought after overview of aggregate effects of multiple simultaneous drugs and is developed in cooperation with a researcher in healthy ageing. The patient and healthcare professional may use the system to evaluate if the negative effects of multiple drugs exceed the positive effects and modify the medication accordingly. The result may be less medicines, lower public spending, improved patient safety and improved quality of life.

Engineering World Health DTU

Do you wish to use your knowledge to improve healthcare delivery in developing countries and upgrade global health? Join EWH DTU, a local chapter of Engineering World Health.

EWH DTU

- in Denmark

EWH DTU is a student organization with the purpose to inspire, educate, and strengthen the biomedical community and improving health care in developing countries. Four groups conduct all activities:

- Projects
- Stationing abroad
- Fundraising
- PR and Networking

All students at DTU can participate.

- abroad

EWH DTU aims to empower developing countries by sending students to Summer Institutes to repair and teach about medical equipment. This together with innovative solutions promotes self-reliance and increased safety.

Check out: www.ewh.dtu.dk

Saxocon

The EU Commission has a strong focus on making the industry remove all endocrine disruptors from medical devices. This creates a need to test the chemicals used in medical equipment for endocrine disrupting effects. Saxocon and the National Food Institute has a project, which aims to develop and strengthen the QSAR models for endocrine disrupting effects. This project will help the Medico industry and become a strong competitive advantage through a documented safety description of their equipment.

CytoTrack

Oncology researchers around the world have discovered great potential in isolating and analyzing CTCs (Circulating Tumor Cells) for improved cancer diagnosis, screening and treatment. CytoTrack offers them a unique detection technology featuring many important advantages, and has been developed solely to meet the technical challenges of detecting extremely rare cells in blood.

Curasys ApS:

By using well known technology as SMS and Voice we offer easy and efficient solutions to enhance servicelevel and efficiency in the healthcare sector.

SUNDidé

SUNDidé is a student driven organization that focuses on innovation and entrepreneurship within healthcare. Our mission is to demystify the term innovation and promote entrepreneurial initiatives among students. We do this by facilitating case competitions, idea developing sessions and workshops about different start-up aspects.

With our base at the University of Copenhagen Innovation Hub and through a good relationship with several external companies, we have created an environment where students hopefully will be inspired to pursue their ideas.

Follow us on Twitter: [@SUNDidé](https://twitter.com/SUNDidé) , facebook.com/selskabformedicinskinnovation , www.sund-ide.com

Ritzau.biz

Easyews (pronounced easy-use) is a digital system that supports bed-side registration of the parameters incorporated in EWS (Early Warning Score). Using a mobile, single-handed, single-finger interface the practitioner is able to integrate value-taking and registration into one single workflow, minimizing time spent and maximizing data quality. The data is processed and displayed to support workflow on the ward, showing timing for every patient as well as a prioritized intervention list for clinicians.

Hevesy Laboratory, DTU Nutech

We present BioSyntheSizer-SPFRM, a robotic radio-synthesis module for automated production of radio-tracers for medical imaging. BioSyntheSizer-SPFRM is a product of collaboration between Hevesy Laboratory, DTU Nutech and GeSiM mbH, Germany. Based on open platform technology, BioSyntheSizer-SPFRM is ideally suited for production of 18F-labeled radiopharmaceuticals of customer's choice, while saving time and resources, due to implementation of a novel solid phase radiofluorination technique.

DELTA:

DELTA helps companies succeed with high-tech product development, adding value through validation throughout the development cycle to ensure ideas meet the real world. Through research projects in technology and processes DELTA continuously seeks new ways to increase performance in Danish companies.

Dencomm

Our project is about stress monitoring, Through Stressgraph app our aim is to help people with their day-to-day stress and performing better at their workplace and other health activities.

DTU Compute

The section for image analysis and computer graphics at DTU Compute is involved in a variety of medico-related projects. We will showcase examples of currently running projects:

- Microsoft Kinect based game for the early assessment of motoric disorders.
- 3D face scanning for face analysis and virtual product design and development
- Advanced shape analysis for the optimization of hearing devices and surgical planning for cochlear implants

DTU Nutech

This project addresses a pertinent problem in fluorescence assisted, so-called photodynamic diagnosis (PDD) cystoscopy of bladder tumours, viz. green fluorescence from urine. This green fluorescence causes a loss of vision for surgeon performing the cystoscopy. In the operating room (OR) this problem is alleviated by rinsing the bladder. It has suggested that 30% of these procedures could be carried out in the outpatient department (OPD), provided that the issue of green fluorescence could be solved.

In a PoC project we have developed a new light source which potentially could be used flexible cystoscopes paving the way for use this method in the OPD.

DTU Food

The main objectives of a the FENAMI research project founded from the Danish Strategic Research Council

(DSF -10-93456,) are to:

(i) develop new nano-microcarrier systems for bioactive compounds using biopolymer-based nano-microstructures for their immobilization, (ii) develop new nano-microdelivery systems utilizing enzyme functionality and molecular imprinted polymers for controlled delivery/release of bioactives, (iii) study the structural and functional properties of nano-microstructures as novel components of food, bioengineering and biomedical products, (iv) evaluate their bioavailability and degradation/digestion *in-vitro and in-vivo*.

Eupry

Eupry provides a solution for monitoring and documenting of the temperature in your cold chain. Cloud technology allows for access to the data from any device. Additionally, Eupry's online platform can connect with other smart devices that you might have.

Dencore ApS

Dencore ApS is a machinery manufacturer founded in 2010, with a specific focus on delivering filling, capping and labelling equipment to tightly defined niches of the diagnostic and pharmaceutical industry. We sold and launched our first fully automatic machine in 2012 and have since found some traction globally. We are developing semiautomatic components for filling, capping and labelling operations, and feed of our initial machines, we are venturing into supply of custom filling and capping machines. This is driven by demand mostly from the U.S.A.

Microdrop Technologies

Microdrop Technologies is the leading provider of equipment, software and services for advanced micro-dispensing and inkjet printing applications.

Beside our existing product range we also develop dispensing system and process steps in close collaboration with our customers to find the best solution. Our main application fields are
-Life Science e.g. coating of implants, high throughput screening, Microtechnology e.g. material deposition of oils, Material Sciences e.g. development of new coatings, Plastic Electronics e.g. OLED, RFID

Luebeck University of Applied Sciences

The research topic of the Laboratory of Medical Electronics (LME) of the Luebeck University of Applied Sciences is the precise determination of bioimpedances. The current research results are implemented in a field programmable gate array based high accuracy broadband bioimpedance measurement system (BMS) for time resolved bioimpedance measurements. The system is able to measure magnitude and phase of complex impedances under test in a frequency range of about 10–500 kHz with excitation currents from 10 μ A to 5 mA. The overall measurement uncertainties stay below 1% for the impedance magnitude and below 0.5° for the phase in most measurement ranges. Furthermore the system has a sample rate of up to 3840 complex impedance spectra per second.

Daybuilder

Daybuilder is a platform to support and improve the quality of, and access to, treatment. Our clinically tested system is based on data collection from patients' daily lives. Daybuilder provides a quick and easy overview of otherwise difficult to gather and interpret patient data. It visualizes large amount of complex information, enabling informed decision making.

Our system is compatible with all devices. The data could be entered online on PC, Mac, tablet and smartphone as well as simple SMS from any mobile phone.

Lübeck Chamber of Commerce and Industry (IHK zu Lübeck)

Germany is an attractive market for medical devices, as well as for finding highly competent and innovative cooperation partners, and Lübeck is a north German hotspot for the medtech segment with a long tradition.

IHK zu Lübeck is co-opted member of the campus and supports its development actively. In cooperation with Biopeople (DK) we have started an initiative to foster cross-border innovation exchange in medical technology and biotechnology. We offer travel grants of up to 5,000 EUR to Small and Medium-sized Enterprises (SMEs) and research institutes.

Important 2015 life science events in Lübeck are

- BioTech & MedTech Partnering Mission (6 May)
- 6th Annual Meeting: Industrial Cell Technology (10-11 September)
- Lübeck 2015 Summer Academy on Medical Technology (15 September, with a focus on regulatory affairs)
- BMT2015 (16-18 September, 49th Annual Meeting of the German Society for Biomedical Engineering, DGBMT within VDE)

Scandinavians are most cordially invited to join these international Lübeck events!

CIMT- Open Telecom - a highway for Telemedicine.

The five regions in Denmark have spent years working together on Telemedicine and developed the platform Open Telecom / KIH-database (Clinically Integrated Home Monitoring).

It allows for patient data collection as well as for storage of data and communications between patient and therapist around the patient's illness. The patient can access the results on a website using a computer or a tablet. We use an open source system to make it easy for providers to use and interconnect external components and equipment. All documentation required for certification can be reused. The stand will demonstrate the use of the Open Telecom and KIH-database.

Posters and business cards will illustrate the possibilities of cooperating on the usage and further development of new mobile devices and interconnection of components and equipment .

GP Medical Instruments GmbH

The spinal anesthesia system monitors the analgesia level based on the principle of governing the dynamics of minute skin temperature differences among different dermatomes at different time intervals with the help of 6 non-invasive electrodes and the associated algorithms. The system is able to predict the adverse effects like TSPA (Total Spinal Anesthesia) and insufficient effects of anesthetic drugs on patients.

PHILIPS BioCell

The oCelloScope™ system is an easy-to-use, automated system for fast and low-cost *in vitro* analysis of liquid biological samples.

The system is based on the patented optical scanning principle (FluidScope™ technology) combined with advanced image processing algorithms which enables high-throughput analysis at a single cell level without affecting samples or assay conditions in any chemical or physiological way. This unique feature makes oCelloScope™ ideal for throughout examination of complex samples such as body fluids, fermentation samples and 3D cultures and allows real-time monitoring and imaging of microbial growth and morphological changes (for example elongation, germination, budding, and hyphae branching) over time.

All types of microbial samples e.g. bacteria, fungi, yeast and mammalian cells can be analysed by the oCelloScope™ system.

NoviPel

NoviPel is a new Scandinavian R&D house. Our customers seek an effective personal bio feedback trainer to enhance the pelvic floor muscle. 16% of women in the Western World suffers from stress-incontinence. Living with incontinence is socially debilitating and prevents a normal way of life. With effective training of the pelvic floor muscle at least 50% can be treated. We define this as "Freedom to Enjoy Life".