



**GERMAN-CANADIAN CENTRE FOR INNOVATION AND RESEARCH**

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**Company Profiles**  
**Alberta-Germany Collaboration Fund Symposium in Germany**  
**November 2014**

HEALTH TECHNOLOGY

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**1) Profile: Clinisys EMR Inc. ([www.clinisys.ca](http://www.clinisys.ca))**

Clinisys EMR Inc. is an Alberta-based medical informatics firm involved in cutting-edge research, development and commercialization of diverse medical informatics solutions for clinics and hospitals. The range of our solutions include software and hardware including medical devices. Our team is composed of dedicated professionals from various disciplines including healthcare, IT, engineering and business. Our main office is located in Edmonton, Alberta, with other branches in Ontario, British Columbia, and the United States. Clinisys operates in three verticals: Electronic Medical Records (EMR), Health Analytics and Medical Devices. Our goal is to develop a variety of secure, scalable and user-friendly e-Healthcare solutions for the healthcare industry. Clinisys EMR caters to various sectors in the healthcare industry, including single or multi-physician clinics, specialization clinics, health clinics, nursing homes and government health setups.

On the software front, Clinisys provides Electronic Health Records (EMR) software, mobile health solutions and health analytics solutions to Canadian and international markets. Our software solutions and medical devices (including EMR, Allied Health EMR, e-Billing, and Patient Portal) are designed to be utilized within a variety of environments. Besides software projects, the company offers a wide range of consulting services to hospitals, clinics, research facilities, government bodies and universities in the areas of health analytics, business process development, health policy development, healthcare project management and more. Clinisys EMR helps clinicians in accessing patient records anytime anywhere using traditional computing devices and mobile devices. We aim to create products and services that cater to both physicians and patients, and ultimately improve healthcare management practices.

The company has commercialized various products including Clinisys EMR for the Canadian markets and is on its way to release two new products in 2014-15 – a health analytics suite and a medical device. Clinisys is a research oriented organization and has a strong group of experts from a wide variety of fields including medical science, computing science, business process engineering, data experts, analysts and SMEs from other related domains.

In terms of our technology project, we are currently working on a medical device - an innovative solution for medical professionals conducting a medical diagnostic procedure in high-risk patient demographics for a particular medical condition. This will be an electro-thermal carry-on device that can allow heating and cooling of a metal plate or a probe that can be switched to either hot or cold desired temperatures, and communicate with other related electronics/systems. Clinisys solution is currently in a prototype phase and we are in the process of firming up conceptual, electrical and mechanical designs.

**Matchmaking objectives:**

Our goal for the matchmaking trip is to find a portable medical device manufacturer that specializes in electro-mechanical, electrical and electronics around hot/cold sensors. While we operate in three medical technology verticals, our focus related to German collaboration is on finding a partner who can assist us in engineering and manufacturing our innovative device that we are developing for testing hot and cold sensation in a certain demographic of patients such as diabetes, stroke, post-surgical rehab etc. The device is meant to be used by trained healthcare professionals for diagnosing a particular sensory symptom in a specific patient category.

**2) Profile: Technology North Corporation ([www.tnactivecare.com](http://www.tnactivecare.com))**

Technology North (TN) Corporation is an Alberta-Canada based Information Technology company, formed by top IT professionals in 1998. TN is focused on guiding businesses to success through the use of technology. In addition to the product offering, it provides IT consulting, software development and security services to organizations that need high quality solutions to support their business activities. The TN team has a wide range of business-oriented IT planning, project management and technical skills, allowing it to service virtually any client requirement. Technology North's flagship product is TN ActiveCare, a SaaS application product intended for the human service and disability service field. It is an enterprise level application offering comprehensive functionality including; case management, care planning, care execution and evidence based care results data collection and reporting functionality.

TN ActiveCare is based on Microsoft .Net 4 framework technologies and iOS native technologies, including JSON web service, MS SQL engine, IIS, C#, JavaScript, backbone.js framework, underscore.js, HTML5/CSS3, iOS Objective C, SSRS for reporting and SSIS for data integration, Active Directory SSO, etc.

Our project ideas are a result of a series of brainstorming sessions between Technology North and its clientele. The aim is to address the universal challenges that exist regarding mobile development and deployment.

**1. A cross-platform data synch-kit for data upstream or downstream in unreliable communication environments****Issue description**

Many mobile applications require a consistent user experience and functionality regardless of connectivity, similar to the one offered by most email applications. However, due to the nature of mobile applications and geographical limitations, devices are often unable to connect to the backend servers at time of utilization. A cross-platform synch solution is required to support the data flows between different interfaces of a software product, including mobile and web backend applications.

**Project R&D idea**

A mobile cloud synch-kit and related data center synch-kit to be used with a mobile device. The idea is to address the common issues with mobile devices such as secure data storage on mobile device, synch technologies in different connectivity condition, tracking changes. The new synch-kit would be able to handle mobile local store sensitive data, synchronize it with the backend server and stream large files such as videos to the input/output device.

**2. Complex-Web and Mobile Chart Engine for extreme healthcare application****Issue description**

The common chart engine available for web and mobile device, are commonly address financial data and simple two axis data charting, such as stock market or simple healthcare usage, i.e., running distance by date. These simple chart engines do not support the more complex needs of healthcare and behavior analysis markets that require charts to include additional contextual information such as:

- Events (e.g. client events, intervention events).
- Treatment phases (e.g. Baseline, Teaching, and Maintenance).
- Treatment target levels (e.g. Gesture, Modelling, and Independence).
- Treatment progression and regression tolerance lines.
- Indicators of relative difference between X-Axis data.
- Gaps on the X-Axis where there is no data.
- Single line series with multi-segments.
- Overlays of line series that use difference formulas for the data points.

- Data aggregation and scaling by week, month, and year while maintaining above indicator
- Pointer-over with custom data pop-ups
- Complex legend that includes information above

No existing component from market place can handle above requirement, a research and development effort is required to address partial or all above requirement.

### R&D Project idea

The proposed project is a research and development effort to address the needs to have a complex chart engine. Such engine can be standalone component which is sellable to other development for web and mobile devices development.

### 3. Wearable mobile device for healthcare application

#### Issue description

Today's healthcare worker often uses pager as the common on-call device due to its durability, reliability and traceability for secure healthcare messaging application. Attempt has been tried to use mobile device as iPhone or other PDA to replace pager, however many attempts have failed due to many reasons:

- Mobile device often store in pocket or left on desk while healthcare provider are not able to be noticed timely when messaging arrives.
- Unsecure message traveling through chat application.
- Not able to trace messaging delivering and signed read-notice.

Other challenges included in mobile device in healthcare:

- Not applicable with large mobile device during healthcare operation or patient visit/meeting.
- Not practical for snapshot data collection on the go.

On the client care side, current there is no solution for real time client motion monitoring for mental healthcare space, real time motion detection and just in time feedback treatment or intervention can prevent motion or mental health escalation or outbreak, provide better data collection that lead to better data analysis and treatment.

### R&D Project idea

Based on Apple iWatch technology, the proposed R&D idea could address there area of concerns:

- A. Secure messaging deliver, notification and traceability
- B. Mobile data collection utilize wearable technology
- C. Wearable technology as motion sensor to real time client/patient monitoring, data feedback and just in time treatment/intervention

### Matchmaking objectives:

We would like to meet a German SME who is interested in being a potential technical innovation partner to work within the Alberta-Germany Collaboration Fund program. Our main objectives are to explore opportunities and start discussions on an innovative mobile or web project that would provide benefits for both the Canadian and German SMEs, as well as our clients.

## CLEAN TECHNOLOGY

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### 3) Profile: Simple Solar Heating Ltd. ([www.simplesolar.ca](http://www.simplesolar.ca))



Simple Solar Heating Ltd is based in Calgary, Alberta. We design, manufacture and install solar heaters for cold-climate residential applications. We have completed solar heating projects for domestic water, space heating as well as pools and spas. Our specialty is integrating solar heat into other heating systems including electric, gas, wood, geo-exchange and bio diesel heating systems. We ensure that mechanical integration be completed in a 'simple' fashion true to our company name. We also work with our clients to provide innovative solutions that architecturally integrate the solar collectors within

the building's style. All of our solar heaters are based on our patented Freedom Won solar heating technology. Our unique approach provides solar heaters that will not overheat and will achieve up to 100% solar fraction.

#### Matchmaking Objectives:

The primary objective is to secure a demonstration project to showcase our solar heating technology. We already have contacts with five German solar heating companies and three German research institutions and we would like to meet and collaborate with more companies to improve our knowledge of the German solar heating industry and the German renewable energy initiatives. More specifically, we are looking for commercialization partners that are active in building heating systems and that are open to a disruptive innovation in solar heating.

German companies in the following areas are of particular interest to us:

- Heating system manufacturers interested in leading solar technology
- Solar heating system manufacturers or installers
- Architectural and engineering firms requiring solar heating for green projects

Ideally, we would like to find a heating system supplier that is interested in our technology. For a potential collaborative demonstration project, we will provide our technology and they would provide the site and some of the equipment.

Simple Solar does not manufacture the solar collectors or the water storage tanks. We make a better system between the two that includes a pump station, automatic heat dissipater and thermostatic controls. We would likely provide these components at least at the early stages of commercialization and the German partner can provide the collector, tanks and demonstration site.

#### 4) White Fox Technologies ([www.whitefox.com](http://www.whitefox.com))



Whitefox provides engineering solutions based on its membrane technology. Our ambition is to deliver the most efficient separation technology by developing and harnessing the potential of membranes. We combine an in-depth knowledge of membrane separation with efficient process integration for new or existing production facilities. Our experience gained from large scale membrane-based ethanol production is unparalleled. By working in close partnerships, Whitefox is able to remove your bottlenecks and provide efficient solutions tailored to your needs.

Whitefox Technologies is focused on membrane applications and processes in the following areas: biofuel ethanol, pharmaceutical, industrial and potable ethanol. From existing plants looking to expand capacity and remove bottlenecks, to new plants seeking to be energy and water efficient, Whitefox provides an optimal solution.

For more detailed information and a video on Whitefox' membrane technology, please see: <http://www.whitefox.com/about-whitefox/index.html>.

#### Matchmaking objectives:

Whitefox Technologies will be attending one of the three matchmaking events, most likely the symposium in Munich on Nov. 24.

## VEHICLE SYSTEMS

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#### 5) Profile: 4Front Robotics ([www.4frontrobotics.com](http://www.4frontrobotics.com))



We are an Unmanned Vehicle Systems (UVS) firm specializing in the development and deployment of autonomous ground (UGV) and aerial (UAV) vehicles for civil applications. At the moment, the company focuses on highly manoeuvrable UAVs capable of performing missions (i.e. locating and rescuing persons) from highly complex/confined spaces, such as collapsed buildings, fires, mines, urban and industrial entrapments, and within the tree canopy.

The company is a result of a number of significant developments in the areas of design, navigation, control and perception mechanisms of UVS over the past 15 years. For this, we apply an innovative approach to industry-university research and

conduct joint research projects to accelerate the practical applications of UVS.

We also offer portable and highly manoeuvrable VTOL UAV for helicopter impenetrable environments. Our fully scalable UAVs are capable of performing highly stable manoeuvres that no other aircraft can execute such as pitched hover and landing & taking off from highly sloped surfaces. Our VTOL UAVs are fully scalable from backpack portable to UAVs capable of carrying 70 – 100 lbs of useful payload.

4Front Robotics is currently participating in the competition for the United Arab Emirates Drones for Good Award. With this award, the United Arab Emirates Government flags the largest-ever award for exploring civilian applications of unmanned aerial vehicles (UAV) technology for improving people lives. 4Front Robotics has been selected for the semi-finals among 350 highly competitive submissions from around the world.

For more information on the UAE award and 4Front Robotics' competition profile (including a short video), please follow this link: [www.iparticipa.com/d4g](http://www.iparticipa.com/d4g).

### **Matchmaking objectives:**

Our objective is to find German partners to further develop our sensor technology to locate victims via UAVs and remotely monitor the human's vital signs (e.g., heart/respiratory rate by sensing small changes in facial color and chest movement). We would also like to partner with companies and organizations to enhance our highly maneuverable UAVs to fly at higher speeds within confined spaces for faster response, and develop an electric scalable high speed robotic arm and robot hand for our UAVs to manipulate the environment (e.g., open doors and move debris with minimal disruption to the UAV).

Participating in the matchmaking trip will enable 4Front Robotics, a start-up UVS company, to meet, network, and showcase our unique products to potential collaborators. The matchmaking symposium will also facilitate looking first hand at possible state of the art technologies that can be adapted for use in highly manoeuvrable UAVs performing missions in confined spaces where no GPS is available and communication problems can be an issue.

## **CHEMISTRY/NANOTECHNOLOGY**

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### **6) Profile: TC Scientific Inc. ([www.tcscientific.com](http://www.tcscientific.com))**

TC Scientific Inc. is a chemical research company located in Edmonton, Alberta. TC Scientific was founded by four experienced, Talented Chemists ("TC") in July 2009. After 5 years of operation, TC now has eleven full-time chemists, most of which hold Ph.D. degrees in organic chemistry with an average of 12 years of experience in the areas of drug discovery, organic synthesis, and medicinal chemistry.

The company's current main products are special chemicals for medical and pharmaceutical market clients. One of TC's specialities is the design and synthesis of heterocyclic compounds, especially five and six-member hetero-aromatic compounds, for drug discovery chemistry. The company's success and expertise has created opportunities to expand our expertise to the Industrial market place. More specifically, our mission is to find innovative solutions to synthetic and medicinal chemistry challenges. TC Scientific is engaged in:

#### Medicinal Chemistry Research

- Lead generation and focused library synthesis
- Lead optimization
- Drug candidate synthetic route scouting and subsequent scale-up

Therapeutic Area experience: anticancer, antifungal reagents, antibiotics, central nervous system (CNS), Infectious disease, inflammatory disease, cardiovascular (CV) disease.

#### Special chemicals for medical and pharmaceutical markets

- Heterocyclic compounds (especially five and six-member heterocyclic compounds)

- Stable isotope-labelled compounds ( $^{15}\text{N}$ ,  $^{13}\text{C}$ , D, etc) and reference compounds
- Nucleoside synthesis
- Chiral synthesis, enantiopure amines, special amino acids

The company will continue its on-going business as a Medical Pharmaceutical Research Organization and provider of Special Synthetic Chemical materials and compounds. At the same time, the company will expand this expertise to the industrial market place. That is, to provide “green chemistry” solutions and applications in the energy and environmental markets.

One of TC’s energy and environmental related R&D projects is: “Synthetic Organic Compounds for Oilfield Services Corrosion Inhibitors”. This project addresses the development of new series of multifunctional synthetic chemical compounds that can replace currently used chemicals (e.g. corrosion inhibitors, surfactants) in the unconventional drilling methodologies known as fracking. The objective of this project is to develop a water soluble (without surfactants), acid stable corrosion inhibitor to replace the current chemical fracking compounds while being cost comparable to the current chemical fracking compounds. The current corrosion inhibitors for fracking need to use surfactants in order for the corrosion inhibitors to well mix with other ingredients. Our new corrosion inhibitors will not need adding surfactants so it will very much simplify the operation for preparing the fracking fluid. We have developed a lead compound.

The company has distinguished itself to its clients and the industry by having one of the strongest teams of synthetic chemists with in-house skills and proprietary knowledge. This enables the company to consistently provide premium quality products and services while surpassing client expectations of cost effective pricing and time sensitive delivery.

#### Matchmaking objectives:

Our objective for participating in the matchmaking symposium is to introduce TC Scientific Inc. to pharma and biotech companies, as well as oil and gas companies that need chemistry expertise. Potential R&D partnering projects include: medicinal chemistry, drug discovery and development; special chemical syntheses and scale up; special chemicals for energy and environmental markets.

#### 7) Profile: ChemRoutes Corporation ([www.chemroutes.com](http://www.chemroutes.com))



ChemRoutes Corporation is a private drug discovery technology provider operating at the interface of organic chemistry, chemical biology, drug discovery and nanotechnology. It was established in 1999 and is headquartered in Edmonton, Alberta, Canada. We have a thorough understanding of the drug discovery and development process, state of the art facilities and an experienced scientific advisory board. We focus on early stage drug discovery to pre-clinical research. Our proprietary and novel small molecule based scaffolds, building blocks, templates, chemical arrays and new chemical target research spans infectious, neurodegenerative and metabolic diseases, pain, inflammation and oncology. We have consistently delivered results, leading to global partnerships with over 90 pharmaceutical, agrochemical and biotech companies accessing our novel chemistry driven platforms for new molecular targets and biochemical pathways. We also have a new product line in development, which could have applications in the car industry in terms of early detection of corrosion.

#### Matchmaking objectives:

Our objective is to expand our network in Europe and the existing partnership we have initiated. We would also like to explore new potential partnerships in the drug discovery and agrochemical areas. ChemRoutes Corporation will be represented by its President and Founder Aubrey Mendonca at the GCCIR matchmaking event in Germany at the end of November 2014.

There are two main areas of focus for this trip:

1. Pharmaceutical and agrochemical companies: for the existing product line **ChemDiscovery Platform™**
2. Automotive industry: for the new product line **ChemCoat™**

In the pharmaceutical area target companies will be the major pharmaceutical companies or SMEs both real and virtual including start-ups, university academics and research organizations in a broad range of therapeutic areas, both of whom can access our novel proprietary scaffolds, focused small molecule chemical arrays around these templates and building block collections to incorporate into their internal drug discovery programs. The collections we have developed target the GPCR, kinase, ion channel and nuclear hormone receptor targets as well as a number of key biochemical pathways. In the agrochemical area again major companies and smaller research institutes would be the potential partners to access the same

compounds that the pharmaceutical companies would be using. These would be for research into new herbicides, pesticides and insecticides or seed coatings.

In the automotive industry, we are looking for potential partners for a consortium to develop a new coating for paints which will be able to detect corrosion and thus be able to take early remedial action.

## ELECTRONICS

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### 8) Profile: Preciseley Microtechnology Corp. ([www.preciseley.com](http://www.preciseley.com))

Established in 2006, Preciseley is a high technology company based in Edmonton developing new and novel MEMS products. By partnering with Microelectromechanical systems (MEMS) foundries, Preciseley operates a fab-less model to deliver recognized MEMS chips to an international base of customers. The company has grown its Intellectual Property (more than 20 patents) and customer base to become one of the dominant suppliers of MEMS optical chips to the fiber optical telecommunications industry, currently supplying chips for variable optical attenuators, optical switches, tuneable filters, wavelength selective switches, optical shutters, and more.

Our proposed collaborative project focuses on monolithic integration of piezoelectric micro sensors with ASIC feedback control for high precision MEMS in clinical in-vivo diagnostics. Optical coherence tomography (OCT) is a medical technic for in-vivo 3D tissue imaging, which has found rapid adoption for ophthalmic applications. There is a driver to miniaturize OCT systems such that they may be integrated into very small endoscopic tools for minimally invasive subsurface tissue imaging. Electrostatic comb drive actuators are the dominant technology for manufacturing of MEMS mirrors. Relative to piezoelectric actuators, comb drives are space inefficient and slow. By transitioning to piezo actuators and by incorporating active positional feedback, the MEMS chip and sensing head can be made smaller and more cost-effective, key factors in the adoption of endoscopic OCT.

Prior commercial optical MEMS (MOEMS) production has been limited because of manufacturing challenges. AlN (aluminum nitride) piezoelectric materials provide a pathway for commercial scale integration with existing MEMS technology. This project will be to create a hybrid piezoelectric/electrostatic MEMS mirror with integrated ASIC driver and feedback control for integration into a miniaturized OCT system.

#### Matchmaking objectives:

An important goal of the matchmaking trip is to connect with other German companies in the areas of advanced materials and health and to look for business opportunities in Germany for our MEMS microphone/speaker and optical MEMS chip products.



### 9) Profile: Stream Technologies Inc. ([www.streamtechinc.com](http://www.streamtechinc.com))

Stream Technologies Inc. was founded in 2012 and has filed patent applications, which are in various stages of the process. The company has four PhD's who are optical specialists and working to deliver a commercial camera.

Stream Technologies Inc. has invented a new type of hyperspectral camera technology – SnapShot Spectral Cameras. These cameras combine imaging and spectroscopy to deliver pictures with embedded overlays that show a scene as viewed by the human eye, but with additional information, such as chemical identification not typically present in a normal RGB camera. Using a newly invented, patent pending, Resonant Tunnelling Prism, the camera instantly separates a scene into 20 spectral bands with high spatial resolution. This allows the applicant to see things in the scene that human eyes do not see. For example, if someone takes a picture of a green plant, in addition to the plant, the camera captures the reflected photons of chemicals, so the viewer would be able to detect the amount of nitrogen in the plant.

Features include:

- Real-time results
- No moving parts

- Optical-based spectral imaging for high resolution
- Camera works in the visible and IR
- Instant datacube (no Fourier Transform)
- Small suitable for handheld / UAV applications

Who might benefit from a collaborative project? 1) Instrumentation companies that currently use or supply a spectrometer to measure or detect, especially where having a spectral imaging camera show the results in the context of the entire scene instead of a point measurement like a spectrometer; 2) Companies that are currently using satellite data and would like spectral data, often in precision agriculture; 3) Device companies that currently use color wheels or scanning for their data cube capture, and want instant, real-time datacube capture.

#### **Matchmaking objectives:**

Stream is interested in working with German companies in the class optic industry that work with thin film deposition for optics not available in Canada. We would like to have the opportunity to meet with more of these organizations.

Stream provides an OEM camera and is looking for partners who can provide application-specific spectral algorithms. We are looking for companies who have some fundamental understanding of spectroscopy and its applications.

Examples would include:

**Microscope manufacturers** who are looking to add value to a microscope by providing state of the art spectral imaging for microscopy or long working distance microscopes. Live cell work or any situation where the sample is changing (chemical reaction or physical movement). Label-free microscopy using spectral features would also qualify.

**Spectrometer-based system integrators** who currently provide a device or service that uses a spectrometer.

**Image processing companies** who have experience in spectral imaging.

**Suppliers or manufacturers of camera sensors** (CCD arrays complete with electronics output).

**Thin film deposition companies** who can do tapered ion beam sputtering or E-Beam with IAD.

## **MATERIALS ENGINEERING**

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### **10) Profile: CCMET Group of Companies ([www.ccmnet.ca](http://www.ccmnet.ca))**



Canadian Construction Materials Engineering & Testing (CCMET) (formerly the Metro Group) is a group composed of 14 companies, each unique in its service offerings. The company's Alberta Group, Alberta Materials Testing Ltd. (AMT), concentrates on providing environmental, geotechnical, total quality management and materials testing for all aspects of construction.

Our engineering team is a group of qualified professionals in the areas of quality management, control, and assurance. Experts in concrete, soils, and asphalt testing, we focus on quality, safety, environment, traffic management plans and conduct on-site monitoring. The AMT team is composed of advanced professionals in material engineering, specializing in a number of project disciplines from concrete mix design to specialized reinforcement testing. Our engineering team are members of the APEGA and our laboratory is CCIL certified.

Our plan is to develop and test a new device for on-site investigation of Carbon Fibre Reinforced Polymers (CFRP) structures in Civil Engineering. Externally applied CFRP are increasingly used to reinforce structural elements in civil engineering. Quality control measures typically verify that the CFRP installed has the potential to achieve its specified performance. However, imperfections during the installation process, and post-installation damage, may degrade the CFRP. Visual inspections, tapping, thermal imaging, or laser scanning may detect some of these deficiencies. However, none of those methods can reliably detect kinks and cuts in lower plies of multi-ply CFRPs.



To prevent disasters like the breakdown of the subway in Cologne, Germany, where 80% of the steel reinforcement was not integrated by the constructor, an inspection method is required. A feasibility study conducted by this consortia shows that a special Radio Wave technique shows great potential for use as a mobile on-site inspection tool.

**Matchmaking objectives:**

Our main goal is to network with German companies to help AMT get a better understanding of the construction, manufacturing and technology market in Germany. More specifically, we would like to present and discuss our idea of CFRP with potential partners from the construction industry (ideally with a background in construction quality control). Currently, there is no accurate or efficient way to test carbon fibre reinforced polymers in the field. The matchmaking symposia would hence be a great opportunity to talk to local businesses within the construction industry to learn more about the potential and demand for our proposed quality control system.

Suragus GmbH specializes in producing, selling and servicing Eddy Current based instruments, which can be used for CFRP inspection. The EddyCus<sup>®</sup> device platform is currently being used for inspection of CFRPS in industrial use e.g. in automotive or aerospace industry.

## INFORMATION TECHNOLOGY

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**11) Profile: Mobovivo ([www.mobovivo.com](http://www.mobovivo.com))**

Mobovivo is a team of TV producers and talented software engineers that has created a platform called StayTuned<sup>™</sup>. The idea of this platform is to turn the TV industries' biggest threat – mobile devices pulling audiences away from TV - into their greatest asset - advertising revenue. Reports show that up to 86% of mobile Internet users access the web and apps while watching TV and 92% of those aged 13 – 24, are using “second screens” while they watch TV. In order to address this audience distraction, Mobovivo has created the platform StayTuned<sup>™</sup>. The software enables brands to engage TV audiences and consumers in real-time, with behind the scenes, social, gamification, and ad content that enhances the experience of watching broadcast TV shows and live sports.

Mobovivo has produced over 100 apps for customers using the StayTuned platform. The apps feature synchronization to broadcast TV, celebrity - fan engagement and/or video on demand. Examples include the Intel Soccer LIVE App, AXS TV Second Screen App for Mark Cuban's television network. Alliance Films movie branded distribution service, Hannibal TV series, ESPN Sync World Cup Experience, NBA Basketball with Time Warner Cable, The Kennedy's TV Series, Degraasi, Suburbia and others.

Mobovivo continues to receive premium coverage and critical acclaim. The Company was recognized by PWC, TechRev and Deloitte as Top 10 Companies to Watch. In Cannes, AT MipTV, Mobovivo was recognized as a Top 10 Disruptor and was awarded top cross platform app. Mobovivo's CEO is a serial entrepreneur with a background in film and TV production, he has been recognized as one of the top thinkers in the social TV and second screen space.

**Matchmaking objectives:**

The main objective of the matchmaking trip is to find strategic partners and customers in Germany in order to take advantage of local industry expertise by means of joint product development. While targeting both the German market and related opportunities in Europe, North America and elsewhere, we would like to apply our turn-key solution for brands, TV networks, news networks, sports networks, clubs and stadiums. More specifically, we would like to further innovate our services with German partners by adding machine learning and other technologies to the StayTuned platform. Target partners include advertising and digital agencies, and media companies with a focus on technology development. The company has already achieved some success in Germany through a partnership with Intel producing a series of World Cup second screen apps for Intel powered tablets.

**12) SPLICE Software Inc. ([www.splicesoftware.com](http://www.splicesoftware.com))**

SPLICE Software sells SaaS based products that deliver superior automated voice experiences for Retail, Insurance and Financial Services clients and their customers. Using big data and crowd sourced voice talents from around the globe, SPLICE sends proactive outbound messages that connect and drive engagement and results. This innovative cloud based approach has earned patent pending status in North America, SPLICE Software's recognition as a two time Ernst and Young Entrepreneur of the Year Finalist and the 53rd spot on the list of Canada's fastest growing companies. With offices in Chicago, Toronto and Calgary, SPLICE partners with nationwide clients such as Lazy Boy Furniture, Intuit, Rogers Media, Mercedes Benz, Ashley Furniture and Frontline Call center. Clients using SPLICE products are recognized for customer engagement awards including the Retail TouchPoints Store Operations Superstar Award. The heart of SPLICE Software is a culture based on innovation and the belief that "it can be better".

**Matchmaking objectives:**

SPLICE is continually growing and exploring new ways to expand into new markets. To enhance our solutions, we are currently looking to partner with a company that has technological expertise in one or more of the following industries:

- Call Centre Services (data research, linguistic optimization and personalized customer experience to drive connection)
- VIP Events (real-time data analytics, reciprocity and customer engagement, perceived value and social research, algorithms based on human interactions)

The matchmaking symposium is an ideal opportunity for us to find a partner company in the German market that shares our passion for customer engagement and that can contribute to our work through technology advancements providing extra resources to further develop our solutions, along with the network needed to enter a new market overseas. A company that offers voice, video and communication solutions would be able to work with SPLICE to create new voice experiences, re-sell our solutions and allow us to learn customer engagement practices in different markets and regions of the world.