TRIANA

Technologies

Preface

Legend

Actively seeking funds

Triana client companies with possible
interest in international joint
ventures, partnerships, or strategic
investors.

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Company	Description & Status	Pg. #
IONYS	IONYS AG designs innovative high performance construction materials allowing for a considerable prolongation of the life cycle of constructors, in particular public infrastructure.	1
HPC PROJECT	HPC Project delivers cost-effective application-in-a-box solutions for demanding users who require intense computational power. The company also assists its customers with a set of services allowing to leverage the power of latest-generation processors.	2
Nexess — New Technologies for more Safety & Security	Nexess offers leading edge solutions answering people flow management and object traceability or process tracking.	3
SENSOLUTE SMART SENSOR SOLUTIONS	An innovative company in the microelectronics field and produce micro vibration sensors and sensor systems with integrated signal evaluation.	4
Tennaxia sustainable development	Tennaxia provides users with a complete and integrated set of applications dedicated to Sustainable Development and EHS management.	5
TRIDELITY 3D TECHNOLOGIES	Tridelity AG is a developer, manufacturer and distributor of glasses-free autostereoscopic 3D screens as well as a related technologies and services. The company has been pioneering the development of this cutting-edge technology for years and thus is offering highest quality 3D solutions.	6

IONYS AG designs innovative high performance construction materials allowing for a considerable prolongation of the life cycle of constructors, in particular public infrastructure.

http://www.ionys.de

Products & Solutions

IONYS AG offers solutions for the prevention of construction damages, which result in a considerable prolongation of the life cycles of concrete constructions and hence in a reduction of life cycle costs. The first product of IONYS AG is an optimized surface protection system, a so-called hydrophobic gel, which is applied on concrete surfaces and protects steel reinforced concrete constructions from harmful sub-stances, humidity and corrosion. The second product of IONYS AG are functionalized fibres leading to a significantly reinforced mortar.

Pipeline & IP Status

The R&D strategy of IONYS AG to develop scientifically substantiated platform technologies ("from alchemy to construction chemistry") permits two advantages: On the one hand, these platform technologies, which are secured by basic patents, can be the foundation for different products or product variations for several application fields and markets; on the other hand strategic partners can be motivated to add IONYS components to their existing products and systems, and hence become more competitive.

Target Markets

In many countries worldwide, the public infrastructure is in a catastrophic condition with serious economic impacts for the respective economies. IONYS AG addresses this target market by offering high performance construction materials for concrete constructions of public infrastructure such as bridges, tunnels, airports and water supply facilities, both for new and for existing buildings. The corresponding market is huge and will grow even more in the next years due to the substantial investment need; it is estimated that in the USA alone 1.6 trillion US-$ of investment are needed.

Market Entry Sales Strategy

IONYS AG uses an entirely new approach hence providing a scientifically substantiated comprehensive solution for sustainable construction, which is satisfactory for all relevant players and in particular for principals. As a result, the way for the use of IONYS AG products is paved, whereas standards and regulations will become less important. IONYS AG concentrates on the development of product innovations until they are ready to be marketed, and subsequently enters.

Competitive Environment

Previously, innovative construction materials have been developed in close cooperation between raw material and construction material manufacturers. Since raw material manufacturers started to increasingly work on own end products in many cases this collaboration as been terminated. Furthermore, R&D capacities in industry have been considerably reduced, which results in both raw material and building material.

Competitive Advantage

IONYS AG is able to transfer cutting edge results from public research into marketable products, which are commercially unassailable due to scientific validation. The close links to top research allows both for a minimization of the product development risk and for the providing of significant solutions for urgent questions in construction.

Growth Strategy

In April 2011 IONYS AG takes over ACTENSA from Berlin, which has more than 30 years of experience in the research of surfactant chemistry, and has filed more than 150 patent applications. This will allow for additional promising R&D projects in the future.

Management Team

IONYS AG has a very good access to public decision makers, i.e. building managers respectively customers, as well as to decision makers of leading companies in the sector acting as strategic sales partners.

HPC Project conceives, develops, integrates and delivers high-performance, cost-effective simulation solutions.

http://www.hpc-project.com

Products & Solutions

HPC Project brings to the market the cumulative experience of experts in simulation, parallel computing and computer architecture. We are using this expertise to answer the growing demand of realism in interactive simulation solutions. HPC provides System Integration - For large simulation systems, HPC Project addresses several industry sectors with two main types of applications: simulation systems platforms for sectors like defense and security and numerical simulation for system engineering or finance. These turnkey systems are the result of an integration process where we combine our own technologies, COTS products, hardware components and additional outside specialized services when needed. HPC also provide Performance Solutions - Simulation requires high performance computing. This can be provided by large clusters, grids or clouds. We propose to bring enough performance at the user level in order to give him a satisfactory interactivity level. Our solutions combine products and services based on leading edge technologies.

Pipeline & IP Status

HPC project has access to state-of-the-art technologies such as Par4All - an automatic parallelizing and optimizing compiler (workbench) for C and Fortran sequential programs. Scilab to C Translation – we have developed a tool, codenamed DLC (Dynamic Language Compiler) wherein its architecture is modular and will be usable in the future for other script languages. Geometric co-simulator - Coming from our co-operation with Parallel Geometry (llgeometry), a world leader in symbolic geometry for high performance modeling, visualization and spatial simulations, this original solid modeling technology is based upon polynomial geometry, which guarantees a wide range of geometric forms, and based upon advanced logic, which ensures combinatorial richness.

Target Markets

HPC targets the Defense and Homeland security industry by offering hybrid simulations, live-embedded simulations, and virtual & constructive simulations. In addition HPC targets markets that require CAE (Computer Aided Engineering) to reduce risk and minimize cost in engineering products and services. HPC also offers financial modeling solutions which works with the Wild Systems product – allowing the engineer to sit back and let the Wild System combine performance and autonomy to provide a solution.

Market Entry Sales Strategy

Competitive Environment

Competitive Advantage

Growth Strategy

In June 2011, HPC launched Wild Cruncher - The primary goal for Wild Cruncher is to bridge the gap between prototyping and production phases for system engineering. This is made possible through code analysis and optimization technologies on which HPC Project has based its success.

Management Team

HPC Project is recognized in the defense simulation community, and its team has been active in the domain for more than 15 years.

Nexess offers leading edge solutions answering people flow management and object traceability or process tracking. Our solutions aim to enhance security and safety whilst offering productivity improvements.

http://www.nexess.fr

Products & Solutions

Nexess has designed the NexSafe range of products on the basis of their specialist know-how. NexSafe tags and identification badges are RFID components, which are approved for severe industrial environments. Every item in the NexSafe range is aimed at a specific industrial environment: ionizing radiation, explosive atmospheres, metal environments, equipment at very high temperatures etc. In order to guarantee optimum reliability in operation, all products in the NexSafe range have been subjected to specific testing relevant to their field of application. Nexess address legal constraints, time pressures and high-risk accident by providing people flow, objects and activity monitoring solutions to improve security and productivity performance.

Pipeline & IP Status

Nexess is steering collaborative research projects partnering with the best specialists from this sector : CEA (Commissariat à l'énergie atomique), Telecom ParisTech, as well as the RFID National Center. Thus the project NexSafe© by Nexess has been selected by Oseo, as well as the competitiveness cluster CapEnergie and "Communicating secured solutions", both based in the region "Provence Alpes Côte d'Azur". Nexess has filed 3 patents.

Target Markets

Nexess has already successfully solutions in industries facing high environmental constraints and as such possesses a unique set of skills and experience in the field of risk measurement systems and in IT integration on production sites that are hostiles to electromagnetic waves. Nexess aims to enter the U.S market by targeting Oil Refineries, Nuclear power plants and other high-level, high-risk industrial environments requiring meticulous safety monitoring.

Market Entry Sales Strategy

Currently, Nexess is conducting market research and feasibility studies to determine the effectiveness of entering the U.S. market which contains more than 150 refineries domestically.

Competitive Environment

Competitive Advantage

The company capitalizes 20 years of experience in sensitive sectors, and has developed multi-disciplinary competences in software, embedded electronics, mechanics and radiofrequencies. Thus Nexess supports continuous improvement initiatives taken by industries managing high level security installations.

Growth Strategy	Management Team

Sensolute GmbH is a technology-focussed company, which is active in selected fields of microelectronic sensors from development to mass production and marketing. Sensolute's technology platform focuses on the detection of movement or its absence.

http://www.sensolute.com

Products & Solutions

Sensolute develops and produces micro vibration sensors as well as sensor systems with integrated signal evaluation. These small, simple and clever sensors control the operational status of motion-sensitive equipment - for example of active RFID transponders, GPS tracking systems, bicycle computers and remote controls

Pipeline & IP Status

Over the last years the product pipeline of Sensolute has been extended continuously and systematically: In 2006, a basic version of the RoHS-conform micro vibration sensor MVS 1006.01 was available. This sensor is sensitive to orientation due to its asymmetrical layout. In 2009, in response to increasing customer requests for "green" electronics, Sensolute launched the halogen-free version of its sensor: MVS 0409.02. Sensolute bundles intellectual property actively by own patent applications and by in-licensing. As for the latter, Sensolute is exclusive licensee of the KIT regarding intellectual property and know-how for the first sensor generation.

Target Markets

Sensolute smart sensor solutions address the market for consumer and mobile electronics. Well-positioned in the value adding chain as the partner of high-end electronics brand-owners, Sensolute provides both high-end brand-owners as well as their manufacturing partners with unique micro electro mechanical systems (MEMS) at low cost. According to IHS iSupply Market Watch, "Revenue in 2011 for MEMS sensors and actuators used in various consumer and mobile devices will reach $2.07B, up 26.2% from $1.64B last year."

Market Entry Sales Strategy

Sales are triggered through two channels: direct acquisition and sales partners. These two ways enable Sensolute to provide the prospective client the level of design-in support necessary. Direct sales with key accounts are managed by Juergen Wulff (CEO) and Guenter Mueller, Head of Sales. Sensolute has established an international network of sales partners, some of which coordinate international sales networks of their own. Altogether, Sensolute has access to 14 local sales partners in 24 countries throughout Europe, Middle East, Asia and North A.

Competitive Environment

The only directly comparable product worldwide is produced by SignalQuest (US), which can be seen as a direct competitor. Sensolute products are superior where there is a need for small, simple and energy efficient solutions.

Competitive Advantage

Sensolute motion detection solutions enable lowest-possible power consumption of battery-operated handheld devices, thus extending stand-by duration. Internationally granted Intellectual Property Rights and vast experience in tuning production processes ensure defendable uniqueness.

Growth Strategy

Sensolute has identified 2 central drivers for growth: developing flagship clients with strong brands and building strong links with international sales partners providing access to already established clients. This strategy has proven successful and shall be pursued further.

Management Team

As of January, 2011, the team comprises 4 fulltime and 2 part-time employees. The team is led by Juergen Wulff, Managing Director of Sensolute GmbH.

Tennaxia provides users with a complete and integrated set of applications dedicated to sustainable development and EH&S management.

http://www.tennaxia.com

Products & Solutions

- Regulatory monitoring & compliance – Tennaxia Regulatory Compliance is a software solution, which enables you to manage your regulatory compliance and corrective action, plans.
- Risk Analysis & Environmental Analysis – Tennaxia Management is a software solution designed to facilitate environmental analysis, risk analysis, the implementation of a management program and continuous improvement.
- Sustainable Development Reporting – Tennaxia Reporting is a software (SaaS) solution designed to facilitate the production of your EHS and/or Sustainable Development reports: data collection from multi-sites => analyses => reports.
- EHS Regulatory monitoring – The number of EH&S regulations (new or modified) has have tripled since 1995. With an ever-increasing scrutiny of stakeholders and more stringent sanctions from the regulators, being compliant with existing Environment, Health and Safety regulations has become a thorny issue for every company.

Pipeline & IP Status

Target Markets

Market Entry Sales Strategy

Competitive Environment

Competitive Advantage

By utilizing Tennaxia software and services you will be able to:
- Grow your EH&S function into a fully developed area with world-class internal processes and compliance management tools.
- Protect your company's brand by reducing EH&S risks related to non-compliance, across plants anywhere in the nation or in the world.

Growth Strategy	Management Team

Since 2001, Tennaxia has increasingly focused on innovation to better help its clients. Today, its solutions are used by more than 2,500 users at 1,000+ locations spread across the world.

Tridelity AG is a developer, manufacturer and distributor of glasses-free autostereoscopic 3D screens as well as a related technologies and services. The company has been pioneering the development of this cutting-edge technology for years and thus is offering highest quality 3D solutions.

http://www.tridelity.com

Products & Solutions

Tridelity AG offers the broadest range of glasses-free 3D screens for multi-user purposes in the industry, including 26", 42", 55" and 65" screens. The availability of integrated PC and portrait format screens as well as 42"-based multi-screen walls first time showed on the DSE in Las Vegas in February 2011 completes the solutions for Digital Signage and presentation purposes in terms of hardware products. A driver based live and interactive plug-and-play solution for all OpenGL-based software solutions such as CAD engineering and medical visualization programs, a medically approved 26" screen and single view screens designed for desktop solutions make Tridelity AG a strong player also in the markets for Science & Medical and Engineering & Visualization.

Pipeline & IP Status

In 2011, Tridelity will launch several new products so as to strengthen the company's position on all markets addressed. A high-definition screen based on QuadHD-Panels (with quadruplicate resolution) will aim for the Science & Medical and the Engineering & Visualization market and will also have influence on the DS market, and further development of the multi-screen walls to a frameless solution will mainly strengthen the position within the DS market, and by means of a glasses-free 3D TV-solution Tridelity AG will enter the market for Consumer Electronics market in Q4.

Target Markets

Digital Signage and Consumer Electronics are the main future target markets of the company. According to several market intelligence agencies, the global DS market revenues are expected to show an average annual growth rate of approx. 10% to more than 8bn EUR in 2014, while the CE market revenues are expected to show a 70% growth and break through 80bn EUR, correspondingly.

U.S. Market Entry Sales Strategy

The US market will be provided by an own subsidiary due to its importance for the DS and CE markets along with some strategic alliances Tridelity is currently preparing on the US market.

Competitive Environment

Toshiba is the only well known competitor so far, others are 3D International (Malaysia), SeeReal Technologies (Luxembourg), Spatial View (Canada) and Alioscopy (France), to name the biggest ones. Other companies are providing small sized glasses-free screens for mobile devices such as Nintendo, Sharp and LG, by using a technology, which cannot be scaled up.

Competitive Advantage

Providing the only autostereoscopic 3D screens with an integrated PC, the only autostereoscopic 3D screens in portrait format and the only autostereoscopic multi-screen walls worldwide designed for the Digital Signage market, Tridelity AG is considered as the global technology leader within the industry.

Growth Strategy

Tridelity is prepared for strong growth; production and storage capacities have been increased significantly. The already existing technology base and short development periods will enable Tridelity AG to take leading positions in all markets addressed. Negotiations and pre-contracts with large-scale production partners are currently underway.

Management Team

Michael Russo has an MBA with eight years marketing and distribution experience within the 3D industry, Marco Lopes has a Master of Software Engineering, and is specialized in software development for autostereoscopic 3D technologies since six years, Johannes Sigwart has more than eight years of research and development experience in LCD and autostereoscopic 3D displays. Carter McCain and his team provide profound sales and finance experience and high valuable contacts within the US-market.