



WORLD RESOURCE VENTURES

Resource Technologies for a Better World

Berlin / March 26th, 2015
Handout

Location:

Deutsche Physikalische Gesellschaft e.V.
Magnus-Haus
Am Kupfergraben 7
10117 Berlin





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Program

As per March 25th, 2015

Location:

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Program March 26th, 2015

08.00 a.m	Checkin and coffee
09.45 a.m.	Welcome Ulf Leonhard, World Resource Ventures
10.00 a.m.	Sponsors' Statements Konstantin Maretis, RBS RoeverBroennerSusat GmbH & Co. KG Rolf Bühler, Greater Zurich Area Friedrich Schmidl, Austrian Business Agency Dr. Katy Ritzmann, FPS Fritze Wicke Seelig, Foreign Lawyer Germany (Israel Bar Association)
Keynotes	Boris Peltonen, Israel Trade, Israel Embassy Berlin Petri Katajamäki, FinPro. München
10.40 a.m.	Additive Manufacturing - 3D Printing Hardware Development
Introduction	Dr. Benedikt Ahlers, Florenus AG Prof. Dr. Hartmut Schwandt, Berlin Technical University, 3D Labs



11:00 a.m.	<p>Companies' pitches</p> <p>Stefan Kühr, 3YOURMIND (Berlin) Christian Daudert, Staramba GmbH Steffen Jäger, Filaments, Halle</p>
11:30 a.m.	<p>Coffee & snack break</p>
12:00 a.m.	<p>Companies' pitches</p> <p>Guido Groet, Luxexcel, Netherlands Marco Reichel, Manu Systems AG, Regensburg Felix Christmann, Senic (D) Florian Seibel, Quantum-Sytems GmbH (D) Eyal Harel, Sha'ked Microbial Solutions Ltd. (Israel) Ronen Shechter, Emefcy (Israel) Sharon Devir, Roots Sustainable Agricultural Technologies (Israel) Norbert Lehmann, GD German Desalination GmbH: LT-MED - improving water efficiency (Germany) Nils Chudy, MIITO (D) Kjetil Haugland Johansen, EnPro AS (Norway)</p>
1.35 p.m.	<p>Lunch (no further coffee break!)</p>
3.00 p.m.	<p>Corporate Views</p> <p>Gary Hayes, Hgen Capital, London - the VC view Dr. ir. Joost Waeterloos, EU Technology Scouting Leader, Corporate Venturing, The Dow Chemical Company - the Corporate VC view Dr. Christian Kühne, stv. Leiter des Referats Umwelttechnik, Forschung, Ökologie, Ministerium für Umwelt, Klima und Energiewirtschaft Baden-Württemberg - the institutional view Dr. Markus Zils, Returnity Partners - opportunities in resource technologies - prospects and funding sources Christian Damjabkob, SmartEAG - the VC view Alexis FIGEAC, Axiom Ventures, EU INNEON Network for Eco-Innovation Investment Alexandre Rhea, New Angle Capital, Luxembourg Vivek Mehra, Aloe Group</p>



4:15 p.m.	Companies' pitches Rolf Luchsinger, TwingTec, Dübendorf (CH) Christophe Maier, Lagosta (CH) Marko Koski, Vasek (Finland) Trevor Rainbow, Aurelia Turbines Oy (Finland) Mats Karlström, Ferroamp Elektronik AB (Sweden) Andreas Braun, Braun Lighting Solutions (Berlin)
5.15 p.m.	Expert Views Ron Adam, Special Envoy for Energy and Permanent Representative to IRENA, Israel - the Israel View Arnaud de la Tour du Pin, Cleantech Consultant
5.45 p.m.	Wrap-up Ulf Leonhard, Leonhard Ventures, „evaluation of today's entrepreneurs - conclusions on further activities“ Fritz Lietzsch, Eco World, CSR Forum Magazin
6.00 p.m. till 8 p.m.	Reception with beer, wine and snacks



WORLD RESOURCE VENTURES

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Profiles

As per March 25th, 2015



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STARAMBA GmbH

Christian Daudert

3D Scanning and Printing

Founded in Berlin, Germany, Staramba is a fast growing startup company with locations in New York and very soon in Los Angeles, California. We have established ourselves as pioneers in 3D-printed photo-realistic figures both of celebrities as well as ordinary people.

Our expertise lies on creating custom-made 3D figures with the best raw materials and state of the art machines. Moreover each figure is partially handcrafted making it a unique figure. To learn more about our products, please visit us at www.staramba.com.





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Luxexcel Guido Groet

3D printing of optical and transparent materials

Luxexcel has developed the technology to 3D print transparent materials straight out of the printer, and is the only company in the world able to do this.

Current and future Markets:

1. Lenses for illumination for example LED, automotive, photonics and medical applications
2. Imaging optics: Eye glass, contact lenses, camera lenses etc.
3. Non-optical applications: decorative glass, hearing aids, and consumer products.

Customer benefits: rapid prototyping, no inventory, no waste, large series possible, unique products not possible otherwise. Total market is estimated at €13B. The company has developed and owns the full technology, printers, materials, software and process. The current technology has been introduced to market on October 1st 2014 and we are starting to generate revenues and achieving market traction. Business model is a service model providing printed products to customers based on their custom designs and put printers at selected customer sites.





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Manu Systems AG

Marco Reichel

Innovation in Energy Generation, Distribution, and Storage
Transport of Goods

The Manu Systems AG is a small corporation with headquarters in Regensburg. The company specialises in service robotics, especially on robot platforms for research. Second main revenue generators are laser scanners for research and industry, especially also with international customers. Through the research project PV SERVITOR five inventions for a service robot for solar power plants were acquired and patent protected.

The company develops with the help of external research- and development providers own robotic platforms for the own brand WORLD OF ROBOTS. The two founders and main shareholders constitute the management board. Its shareholder base has expanded after the founding with 2 shareholders ten years ago to 10 shareholders.





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Senic GmbH

Felix Christmann

Smart Home

We replace „graphical user interfaces“ by turning everyday objects like dials or surfaces like tables into „tangible user interfaces“.



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Quantum-Sytems GmbH

Florian Seibel

Food, Nutrition, Agriculture

Pulp, Paper, Wood, Forest

Innovation in Energy Generation, Distribution, and Storage

Water-related Technologies

UAV, UAS, Drones

Quantum-Systems GmbH www.quantum-systems.com is specialized in development of small unmanned aerial vehicles. With lots of experiences in the domains needed to provide a complete flight system including airframe, flight control system, integration of sensors and ground control system, Quantum-System aims to develop requirement driven individual flight systems for the customer. Quantum-Systems developed an innovative transition drone targeting agriculture applications. Due to its superb flight characteristics it can be also used for monitoring and reconnaissance tasks.





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Sha'ked Microbial Solutions Ltd. Eyal Harel

Water-related Technologies

Sha'ked has developed a novel formulation to control harmful aquatic organisms. Its flagship product, the SH101 has shown dramatic results in the treatment of Cyanobacteria. These organisms cause harmful algal blooms which contaminate fresh water bodies all over the world rendering them unusable. The costs of this unsolvable problem are estimated in the billions annually.

After showing dramatic results with its SH101 in small scale field trials, the company is preparing for executing additional field trials in growing scale while responding to emergency requests for treatment globally.

Sha'ked's second product, the SH102, which is based on the same technology platform, has shown very good results in lab in NYU and Auburn U. as an ovicide against different types of insects, such as Anopheles, the vector of Malaria, Chironomids, the vector of Cholera, Aedes Aegypti, the vector of Yellow and Dengue Fever as well as against Culex.





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EMEFCY - Breakthrough in wastewater treatment

Ronen Shechter

Water-related Technologies

Energy efficient, de-centralized wastewater treatment

Emefcy is an award-winning wastewater treatment company, pioneering the development and commercialization of disruptive energy-efficient and cost-efficient wastewater treatment and reuse products. Emefcy is run by experienced domain experts founders and a professional managing team. Wastewater treatment consumes about 2% of the global power production.

It is a massive resource consuming industry, which could spend a lot less and do much more with the proper technological solutions. Furthermore, highly demanded distributed reuse applications are currently limited by the high costs for small scale plants. Emefcy has developed two technologies: SABRE and EBR, which address the above limitations in municipal and industrial plants.

SABRE stands for Spiral Aerobic Biofilm Reactor. It is a simple, low cost, modular and scalable solution for small and medium size wastewater treatment plants.

EBR stands for Electrogenic Bio Reactor. It treats industrial wastewater, while simultaneously generating electricity from the process, to be fed to the grid.



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Roots Sustainable Agricultural Systems

Sharon Devir

Food, Nutrition, Agriculture
Water-related Technologies

ROOTS Ltd. is developing and commercializing two technologies and products to meet the challenges of global agriculture. Each system provides a solution to a major problem, but they can also be integrated into a single, comprehensive solution to meet the needs of both root zone temperature optimization as well as access to water for irrigation. Root Zone Temperature Optimization RZTO: Root temperatures influence all parameters of the plant's physiology and an optimum RZT range is essential for a plant's robust growth, productivity and quality. The RZTO system is based on the fact that, at a depth of few meters, soil maintains a relative stable thermal profile year round that approximates the mean annual air temperature and is unaffected by daily or seasonal air temperature fluctuations. Leveraging the principle of Ground Source Heat Exchange - GSHE, ROOTS installs a closed-loop system of pipes, with the lower part dug & placed at depth, and the upper part in the target crop's root zone. Through GSHE, the soil's heat charges water that flows through the lower pipes. The water charged with the stable temperature is pumped towards the pipes installed in the root zone, where the heat is discharged. The result: heating the root zone during the winter and cooling it during the summer, thus keeping the RZT at a relatively stable and favorable range throughout the year.



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GD German Desalination GmbH

Norbert Lehmann

Food, Nutrition, Agriculture
Raw Material Mining, Recycling, New Materials
Innovation in Energy Generation, Distribution, and Storage
Water-related Technologies

Securing potable water and wastewater treatment through economic viable, sustainable and innovative solutions.

We develop and supply decentralized, transportable equipment; modules, machines, components and services.

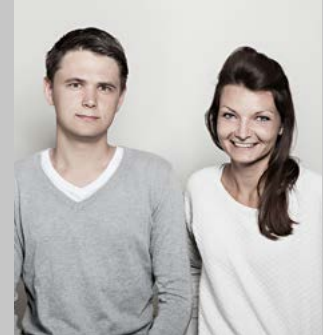
Thermal desalination technology; MED as well as pre- and post treatment capabilities.

Highly efficient, low-maintenance, transportable modular systems.

Applications for seawater, groundwater, industrial- and process water as well as irrigation and farming water supply. membrane free solutions for high salinity sources.



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MIITO

Nils Chudy and Jasmina Grase

Innovation in Energy Generation, Distribution, and Storage
Water-related Technologies

MIITO is an innovative product that heats liquids directly in the vessel to be used, hence eliminating the heating of excess water. Simply fill your cup with water, place it onto the induction base and immerse the rod in the liquid. The induction base heats the rod, which then heats the liquid surrounding it. MIITO works with non-ferrous vessels of any size, for example a pot of tea when inviting guests. MIITO can also heat your soup or milk for a coffee. The clean shape of the rod allows it to be cleaned easily.





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EnPro AS

Kjetil Haugland Johansen

CO2 Capture Use (CCU) for Chemical Production

EnPro AS is a Norwegian environmental technology company. The company has the global exclusive user rights, as well as targeted part and full ownership to proprietary carbon capture technology removing CO2 from sources like exhaust gas by using salt water and producing stable mineral products in the process.

EnPro and its technology provides for a proven revolutionary new technology in producing stable minerals, such as Sodium Carbonate, Soda Ash, by using CO2 waste as a key raw material, thus producing Sodium Carbonate to a market with demand over 60 million tons per year, with large CO2 reduction impact.

Whilst existing production methods emits around 1 ton CO2 per ton Sodium Carbonate produced, EnPro CMT produces the same with no CO2 emission. And whilst doing so, EnPro CMT reduces the CO2 emission from industrial emitters with approximately 90%, thus providing for compelling, unique and cost effective CO2 mitigation solution.





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HGEN Capital

Gary Hayes

Raw Material Mining, Recycling, New Materials
Innovation in Energy Generation, Distribution, and Storage

We are a company of people who partner with others to invest into renewable energy and cleantech, facilitating the development, build, implementation and operation of a sustainable robust power generation infrastructure.

Why would you invest with HGEN Capital on a Renewable Energy Utility Scale Project?

We provide equity and or debt funding with attractive IRR and remove majority project risk with a wrap around comprehensive package arranged through TIER 1 insurance companies including Lloyds of London. We offer a no risk capital investment opportunity for short term funding.





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The Dow Chemical Company

Joost Waeterloos

Food, Nutrition, Agriculture

Pulp, Paper, Wood, Forest

Innovation in Plastic Generation and Recycling

Raw Material Mining, Recycling, New Materials

Innovation in Energy Generation, Distribution, and Storage

Water-related Technologies

Electronic Materials, Packaging



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TwingTec

Rolf Luchsinger

Innovation in Energy Generation, Distribution, and Storage

TwingTec develops and markets a new wind energy technology, where the energy is harvested with a tethered wing and converted with a ground based generator into electrical power. Flying at optimal altitude and saving more than 90% of the material of a conventional wind turbine, TwingPower produces renewable energy at very low costs.

Mobile container based systems are easily deployed and operational within a day producing power on- and off-grid. Of particular interest are power consumers in remote areas such as mines, where electricity is mainly produced with diesel generators at high costs.





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LAGOSTA Sarl

Christophe Maier

Food, Nutrition, Agriculture

LAGOSTA Sarl is a Swiss aquaculture company that focuses on growing and marketing live spiny lobsters. The Company's product differentiations rely on the fact that it will fulfil market needs with:

- Live spiny lobsters;
- Spiny lobsters at sizes hardly available on the market;
- A product available all year-round.

As of today, no company has been able to raise spiny lobster on a large commercial scale and the market supply relies exclusively on wild stocks. The Company's ground-breaking innovations mainly rely on a strong knowledge of the animal and an innovative organic formulated diet that substantially decreases feeding costs.

Aquaculture – the farming of fishes, shellfishes and crustaceans – is the fastest growing segment of the world food industry, with an average growth rate of 9.6% per year since 1984 and supplying one-third of the seafood consumed worldwide.





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Vasek Oy and Koko Scandinavia Oy

Marko Koski

Pulp, Paper, Wood, Forest

Innovation in Plastic Generation and Recycling

Innovation in Energy Generation, Distribution, and Storage

Water-related Technologies

Co-investments, crowdfunding and startup business development within energy sector.



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Aurelia Turbines

Trevor Rainbow

Innovation in Energy Generation, Distribution, and Storage

Aurelia has developed a 2-stage, intercooled and recuperated microturbine, specifically to address the Distributed Generation Market.

The unit has a very high electrical efficiency and its use of readily available modular components give it a wide and effective range of operation.



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Ferroamp Elektronik AB

Mats Karlström

Innovation in Energy Generation, Distribution, and Storage

Ferroamp develops the World's first truly modular solar and smart energy storage solution – The EnergyHub system. Based on multiple patents, the solution creates benefits across the value chain: Up to 30% increased return on investment for customers, less stocked items and a platform for recurring sales for distributors. At the heart of the system is a novel 4-quadrant inverter that enables bidirectional energy flows and the unique ACE technology that enables savings on grid fees and faster EV charging.



Berlin / March 26th, 2015

Attendees

As per March 25th, 2015

Adam	Ron	Israel Embassy
Ahlers	Benedikt Dr.	Florenus AG
Ahrens	Uwe	NTS Energie- und Transportsysteme GmbH
Baum	Alexander	Evonik
Boaz	Wachtel	Roots Sustainable Agricultural Technologies
Braun	Andreas	Braun Lighting
Breuche	Oliver	Allianz
Brey	Michael	econeers crowdfunding
Brunthaler	Stefan	Brunthaler Industrielle Informationstechnik GmbH
Bryce	Jacob	IsraelVenturePartners
Bühler	Rolf	GreaterZurichArea
Christmann	Felix	Senic Gmb H
Chudy	Nils	MIITO
Civasa	Munya	Florenus AG
Damjakob	Christian	Smarteag
Daudert	Christian	Staramba AG



Daus	Ernst	Private Investments
David	Michel	Helixator 3D
Devir	Sharon	Roots Sustainable Agricultural Technologies
Dümichen	Tim	KPMG
Ferraz	Sebastien	LAGOSTA Sarl
Figeac	Alexandre	Axiom VC
Fröde	Hans-Jürgen	ARKUS International AG
Gierling	Tobias	Embassy of Argentina
Gordon	Gesa Dr.	Cleantech Expert
Grase	Jasmina	MIITO
Griffith	Doug	DTG Consultancy
Groet	Guido	Luxexcel
Gurka	Rene	BigRep GmbH
Harel	Eyal	Sha'ked Microbial Solutions Ltd.
Haugland Johansen	Kjetil	EnPro AS
Hayes	Gary	HGEN Capital
Houle	Corey	TwingTec
Iann	Max Dr.	Dr. Max Iann Invest GmbH
Jäger	Steffen	KVI Weber



Jernström	Björn	Ferroamp Elektronik AB
Karlström	Mats	Ferroamp Elektronik AB
Katajamäki	Petri	Finpro
Kloss	Tobias	Quantum-Systems GmbH
Koski	Marko	Vasek Oy
Krahl	Matthias	Solonius GmbH
Krishna Thakur	Jay Dr.	Cleantech Expert
Kühne	Christian Dr.	Ministerium für Umwelt, Klima und Energiewirtschaft BW
Kühr	Stefan	3YOURMIND
Kummert	Irina Dr.	Ethikverband der Deutschen Wirtschaft e.V.
Kwee	Hwie	BizAngel
Lehmann	Norbert	GD German Desalination GmbH
Leibe	Thomas	ACRYLAMP- Technologie
Levy	Eytan	Emefcy Ltd
Lietzsch	Fritz	CSR Forum Magazin
Löffler	Holger	BSH Hausgeräte GmbH
Luchsinger	Rolf	TwingTec
Lund	Joachim	WFS Innovationsberatung
Maier	Christophe	LAGOSTA Sarl



Maretis	Konstantin	RöverBrönnerSusat
Martinelli	Luca	BrainstoVentures AG
Mauch	Reiner Dr.	Schott
Mehlhorn	Steffen	ACRYLAMP- Technologie
Mehra	Vivek	Aloe Private Equity
Michaelides	Philip	Senic Gmb H
Mueller	Rebekka	MIITO
Nielen	Lukas	Florenus AG
Nuno	Carvalho	Bekaert (Corporate Venturing)
Packi	Benno	Ley Jesch Racky
Pauly	Jonas	hardware co.
Peltonen	Boris	Israel Trade
Raether	Ingo	IHK Potsdam
Rainbow	Trevor	Aurelia Turbines Oy
Reichel	Marco	Manu Systems AG
Retter	Matthias Dr.	PriceWaterhouseCoopers AG
Rhea	Alexandre	NewAngleCapital
Ritzmann	Katy Dr.	FPS Fritze Wicke Seelig
Romahn	Alexander F.	Sonne+Wind Beteiligungen AG



Rothacher	Tobias	Germany Trade and Invest
Saraceni	Diana	360 Capital Partners
Schmidl	Friedrich	ABA
Schwandt	Hartmut Prof.	TU Berlin
Sehrt	Marcel	BritCars Riller & Schnauck
Seibel	Florian	Quantum-Sytems GmbH
Shtainkort	Ronen	Private Investments
Stinnes	Matthias	Stinnes KG
Straube	Sebastian	Dr-Raft Corp. Accelerator Warsaw
Theiste	Christian	EnPro AS
Tisun-Lepinoy	Sandra	Invest in Lyon
Tour du Pin	Arnauld de la	Cleantech Expert
Volkov	Leonid	Artec Europe Sarl
Waterloos	Joost	The Dow Chemical Company
Weichhaus	Rainer	RöverBrönnerSusat
Weissieker	Reiner	Gebr. Brasseler GmbH & Co. KG
Zils	Markus Dr.	Returnity Partners GmbH