



Delivering solutions
based upon principles of
The Blue Economy

THE BLUE ECONOMY

10 years, 100 innovations, 100 million jobs

The Blue Economy began as a project to find 100 of the best nature-inspired technologies that could affect the economies of the world, while sustainably providing basic human needs - potable water, food, jobs, and habitable shelter.

Starting with 2,231 peer review articles Dr. Pauli and his team found 340 innovations that could be bundled into systems that function the way ecosystems do.

These were then additionally reviewed by a group of corporate strategists, expert financiers, and public policy makers.

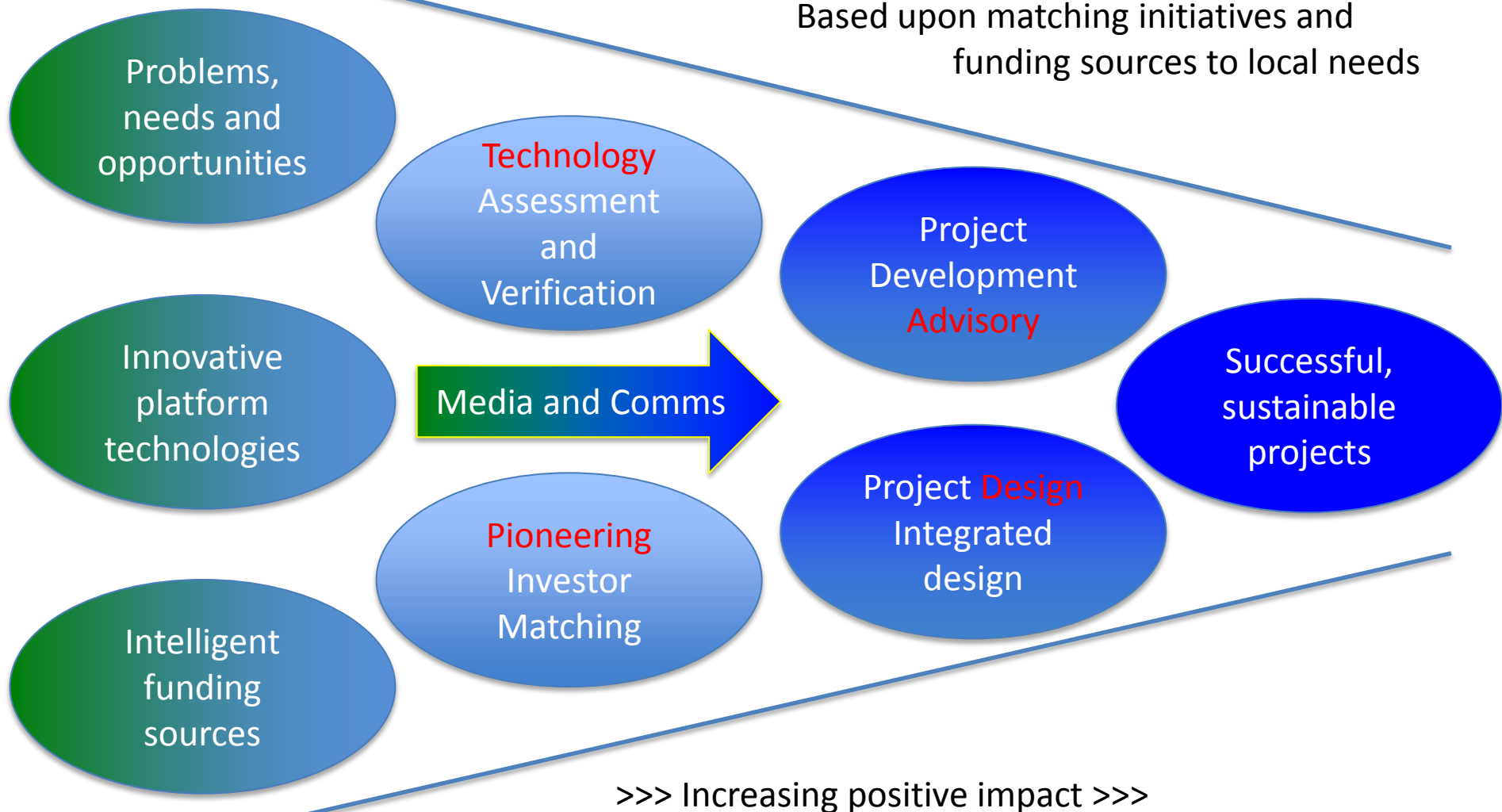
Further meetings with entrepreneurs, financial analysts, business reporters, and corporate strategy academics reduced the list to one hundred.

THE VISION

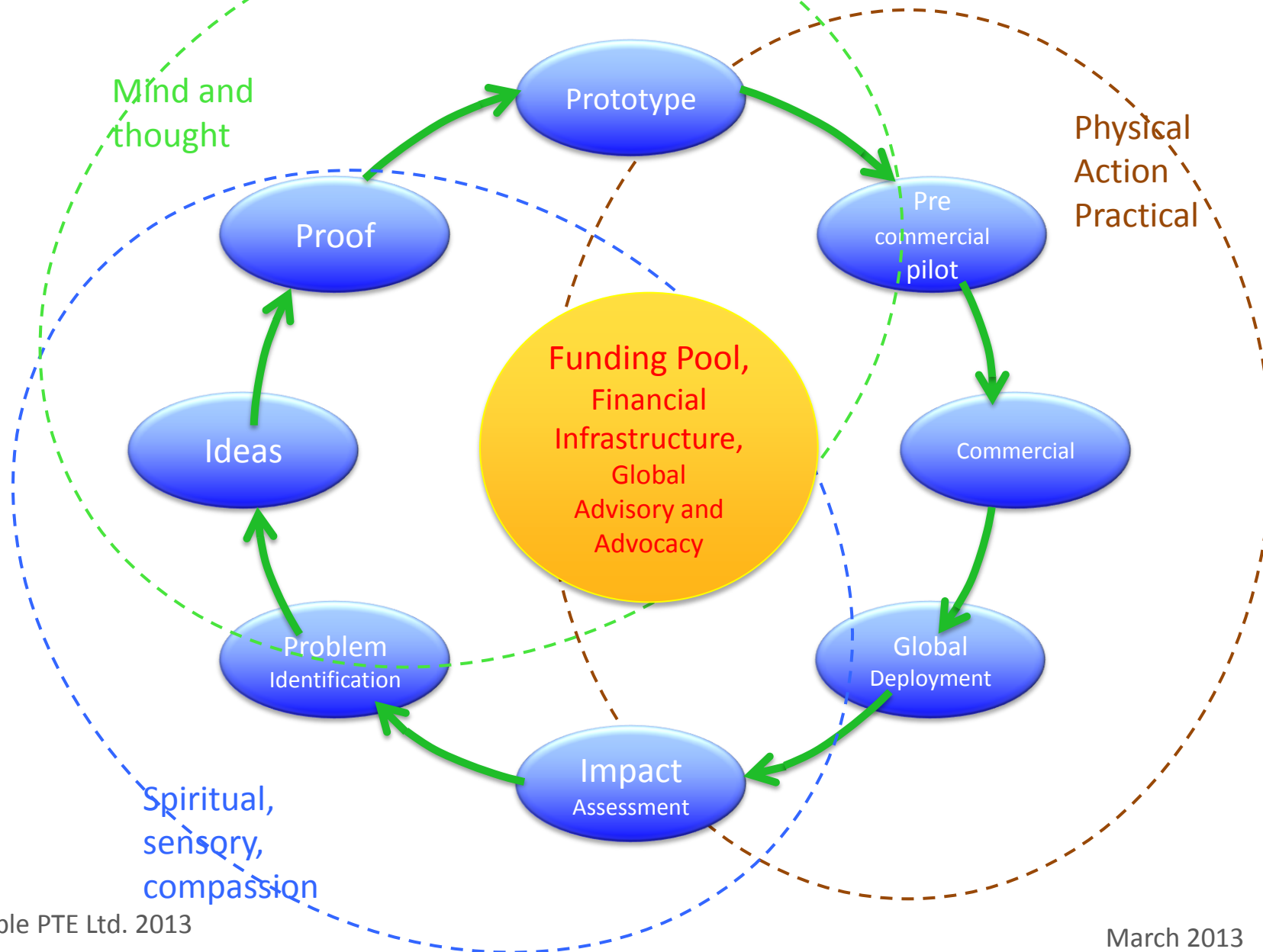
*“First priority is to bring about **positive change** through ethical investments and innovative initiatives to meet global needs where **respect, trust and fairness to all life** are primary considerations”*

THE PROCESS

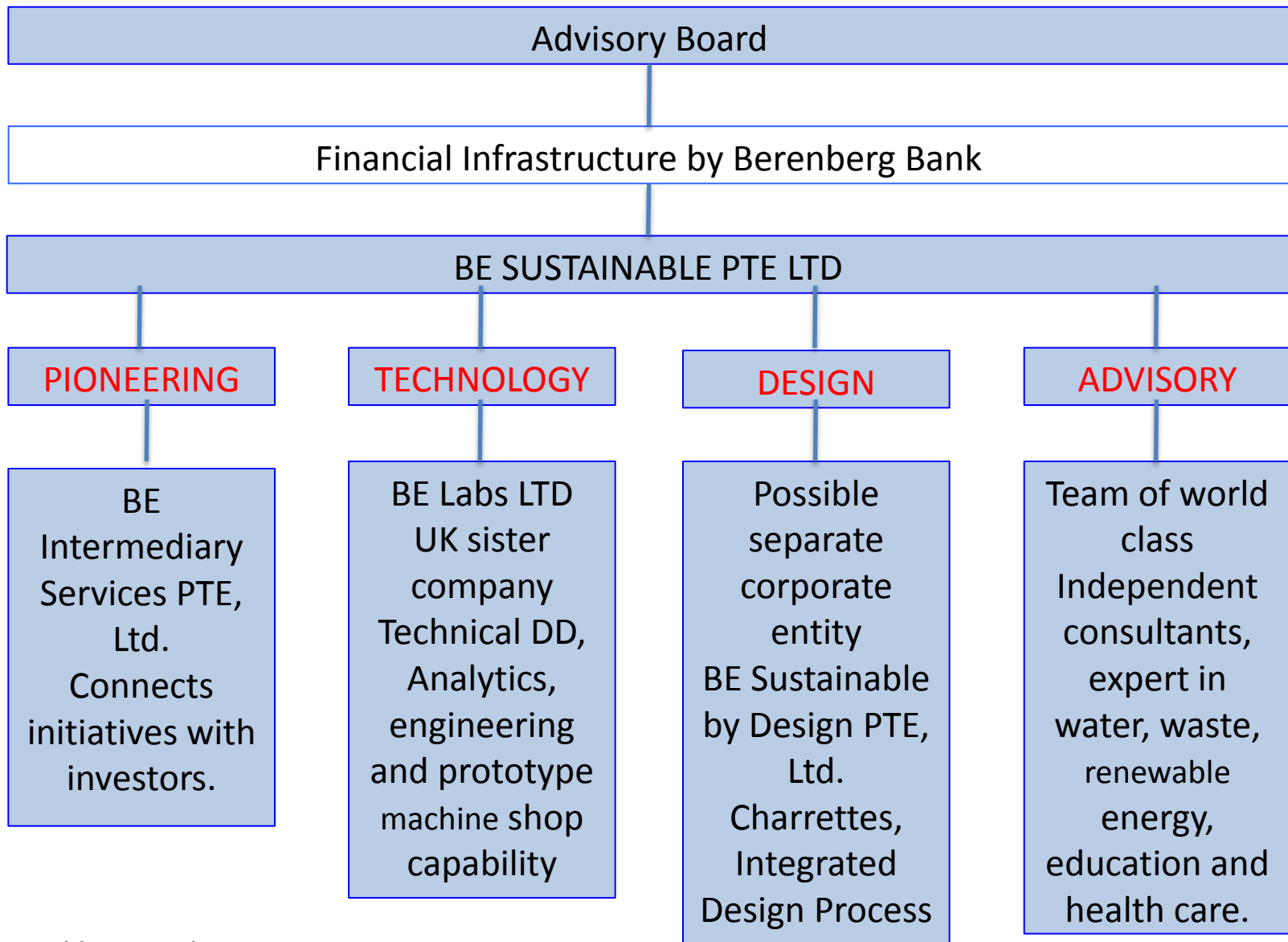
Based upon matching initiatives and funding sources to local needs



CLOSING LOOPS



The STRUCTURE To be updated



PEOPLE

- **Inspired by:** Prof. Gunter Pauli, The Blue Economy and the Club of Rome
- **Founders:** Dr Martin Blake, a global sustainability expert specialising in island sustainability and Mr. Phil Risby, a renowned business leader, innovator and entrepreneur
- **Advisory Board:** Liz Hosken, founder Gaia Foundation, May East, Exec Director, CIFAL, United Nations, Polly Higgins, initiator of the international law of Ecocide
- **Advisors and Consultants:** Extensive team of world leading advisors and consultants

Our inspiration

PROFESSOR GUNTER PAULI



- Putting the principles of the Blue Economy into practice by matching local problems to local needs
- Enabling innovative technologies into real world business opportunities
- Facilitating intelligent funding to local enterprises creating secure well paid local employment, local economic growth, sustainable solutions, greater independence and enhanced resilience

FOUNDERS



Dr Martin Blake

Martin is a visionary strategist in the sustainable development movement and an award winning Top 100 Global Sustainability Leader



Phil Risby

Phil works closely with Gunter Pauli and is a passionate advocate of Blue Economy Sustainability. Phil's drive is to transform ideas and aspirations to practical and financially viable reality.

ADVISORY BOARD



May East

May is a sustainability educator and designer heading two international organisations: Gaia Education and CIFAL Scotland - UNITAR Associated Training Center for Northern Europe



Liz Hosken

Liz is co-founder of the Gaia Foundation. She received the Jameson Award, the Schumacher Award and a One World Award for media work on biodiversity related issues. She is a fellow of the Findhorn Foundation, Advisor to the Goldman Environmental Prize, and on the Board of International Funders for Indigenous People (IFIP).



Polly Higgins

Polly is a barrister and international environmental lawyer and has proposed to the United Nations in April 2010 a law of Ecocide to be classed as an international law alongside Genocide, Crimes Against Humanity, Crimes of Aggression and War.

Sustainability



Dr Martin Blake

Martin is a visionary strategist in the sustainable development movement and an award winning Top 100 Global Sustainability Leader



May East

May is a sustainability educator and designer heading two international organisations: Gaia Education and CIFAL Scotland - UNITAR Associated Training Center for Northern Europe



Phil Risby

Phil works closely with Gunter Pauli and is a passionate advocate of Blue Economy Sustainability. Phil's drive is to transform ideas and aspirations to practical and financially viable reality.

Corporate Social Responsibility



Dr Martin Blake

Martin has more than 30 years experience in sustainability and is the innovator of the holistic 6 Pillars Approach to Corporate Social Responsibility (CSR). He has deployed one of the most successful energy conservation programmes in the world. Martin's specialist expertise is in developing strategic plans and influencing high profile stakeholders with both governments and non-government organisations, as well as within the postal, construction, healthcare, oil and gas and charity sectors



Russell Workman

Russell also has specialist experience in triple bottom line, environment and sustainability issues, environmental employee engagement strategy, emissions auditing, carbon assessment, and how to save money and raise revenue by incorporating environmental strategy. Russell has been a guest of World Business Council for Sustainable Development, attending the United Nations Framework Convention on Climate Change, and an initial contributor to the Australian Banking Associations Climate Change Action Group.

Energy



Steven Fawkes

Steve is an experienced professional with recognised expertise in energy issues, technical, managerial and financial experience, proven skills in start-up and large companies, and cross-cultural experience. Steve advises the UK government on energy efficiency



Miriam Maes

, Miriam has been appointed Advisor to the new Energy Efficiency Deployment Office in the Department for Energy and Climate Change (DECC) and was actively involved with the Department on Energy Efficiency and Decentralised Energy policy matters until March 2012



David Strong

David has been MD of BRE Environment responsible for delivering the UK governments Energy Efficiency Best Practice Programme (BREEAM). He has considerable expertise with the integration of renewable energy systems

Waste



Phillip Mossup

Phillip is an expert in recycling, energy and carbon management and renewable energy. He has over 4500 sites under management in the UK. Phillip was voted 2009 Young Entrepreneur of the Year, Best Environmental Business and UK's Fastest Growing Businesses.



Russell



Colin Crooks

Colin Crooks has a successful track-record as an award winning social entrepreneur. He has founded and successfully grown several social enterprises dedicated to creating employment through waste reuse, re-manufacture and recycling. Colin has created thousands of new jobs.

Water



Phil Risby

Phil has been involved in water and water quality both at implementation level with Harza Engineering in Chicago and with extensive research in water vortices and natural purification systems. He works closely with Gunter Pauli on many projects especially those with water.



Kresimir



Curt Hallberg

Curt is founder and owner of Watreco a cleantech company specialising in water systems. With an innovative and sustainable approach under the principle "from Nature to Industry", the company develops and sells energy efficient products and systems for water treatment on a global market.

Social Enterprise



Colin Crooks

Colin Crooks has a successful track-record as an award winning social entrepreneur.

Colin founded Papercycle, 3Re, Renew North East, Cybercycle, and GreenWorks, all highly successful social enterprises.

GreenWorks created nearly 1,000 jobs and has received the prestigious Queen's Award for Enterprise (Sustainable Development).



Russell Workman

Russell is an innovative leader, with proven ability in Corporate Relationships, Corporate Social Responsibility, Not for Profit Management, Foundation Management, Social Enterprise, Creative Development, Strategy, Innovative Solutions and Problem Solving

Agriculture and Food



David



Michael Knagenhjelm

Michael is a member of the advisory board at Pro Natura International a company that focuses on biodiversity, climate related projects and participatory community development in developing countries.

Pro Natura has patented a machine that turns bio waste into biochar. Widespread deployment of biochar production facilities throughout the world could represent a major contribution to the sequestration of CO₂ and improve agricultural production. This is increasingly seen as a major contributor to the mitigation of the climate crisis and as a means of reducing the destruction of virgin forests.

Michael is a board member of the Norwegian Climate Network.

Housing and Shelter



David Strong

David is an internationally recognized expert in sustainable building design and refurbishment, specialist in whole system thinking and building physics. His expertise includes exploiting and optimizing use of natural systems for heating, cooling, ventilating and illuminating buildings. Prof Strong has a wealth of knowledge associated with the low/zero carbon buildings, his expertise associated with the integration of renewable energy systems in the built environment, combined heat & power, district heating and energy efficient design of refrigeration plant for commercial applications.

David was MD of BRE Environment responsible for delivering the UK governments Energy Efficiency Best Practice Programme (BREEAM) and is a Visiting Professor at Oxford Brookes University Faculty of Technology, Design & Environment (Low Carbon Building Group).



John

Education



May East

May is a sustainability educator and designer heading two international organisations: Gaia Education and CIFAL Scotland - UNITAR Associated Training Center for Northern Europe.

She has been leading a generation of sustainability educators and practitioners in the delivery of ESD trainings in 31 countries in the most different stages of development and in both urban and rural contexts.

May is based at the UN Habitat Best Practice designated Findhorn Ecovillage, delivers Transition Training since 2008 in both Europe and Global South, has a UNITAR diploma on Climate Change Diplomacy and is currently advising a series of projects seeking to scale up low-carbon investment in Brazil.

Economic and commercial Development



Colin Crooks

Colin has a successful track-record as an award winning social entrepreneur founding many successful social enterprises and creating over 1,000 jobs. He has received the prestigious Queen's Award for Enterprise (Sustainable Development).



David Strong

David has extensive experience the development of commercial system in the areas of renewable energy, combined heat & power, district heating and energy efficient design of refrigeration plant.

LEGAL



Polly Higgins

Polly is a, barrister and international environmental lawyer. She proposed to the United the law of Ecocide to be classed as an international law alongside Genocide, Crimes Against Humanity, Crimes of Aggression and War Crimes as a 5th Crime Against Peace.

Ecocide is defined as the "extensive damage, destruction to or loss of ecosystems of a given territory, whether by human agency or by other causes, to such an extent that peaceful enjoyment by the inhabitants of that territory has been severely diminished."



Lord Tim Clayton Jones

Waiting for content

Meeting to confirm at end on Feb 28th

Chairman of DLA Piper

BE Insurance

A novel product



Marcel Steward

Waiting for Marcel to provide Bio, his CV is too long

Risk Management

reducing risk



Mark Doyle

Waiting for content

Integrated Design

Bringing it all together



Nigel Grier

Nigel has developed a holistic & multidisciplinary design process that explores the whole range of ways that design can contribute to a more sustainable society. A focus on nature's design process (biomimicry) can influence human-made design, what constitutes form and function, how beauty relates to sustainable design and how co-design processes can lead to innovative solutions.

He has over 14 years extensive design and construction experience in the tropics most notably in Northern Australia and more recently Indonesia working in the mining, energy & resources, property, government & NGO sectors

RESEARCH



RESEARCH TOPICS

Better technologies for basic human needs:

- Water purification without filters or chemicals
- Plasma processing to increase product values
- Highly efficient gas cracking to high value products
- Novel efficient simple waste to energy systems
- Waste to fuels copying nature
- Alternative and innovative energy technologies

R&D TEAM



Phil Risby

Theoretical physics, electromagnetics, mathematics, plasma processes, kinetics, Phil holds several patents and has published research at the University of Cambridge



Simon Batty

Heads the research team, extensive industrial experience in fuels, novel industrial processes, software systems.



Vlad Demidyck

From Moscow State University. Vlad specialises in theoretical chemistry, plasma chemistry and industrial processes,



Chris Barry

Bio-mimicry, bio-chemistry, organic chemistry, inventor with successful industrial solutions



Robb Saunders

Engineering and fabrication, drafting, modelling and the conversion of ideas to reality



Dr David Dent

30 years experience in agriculture
Vice President of Parliamentary and Scientific Committee



Peter Brimblecome

Environmental chemist, atmospheric chemistry, author of many published papers.



Curt Hallberg

Water and vortex systems, water purity, water filtration and revitalisation.

We have access to an extensive range of innovative technologies.

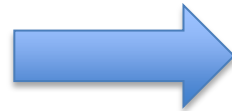
Here are as few

TECHNOLOGY EXAMPLES

Waste to Fuel

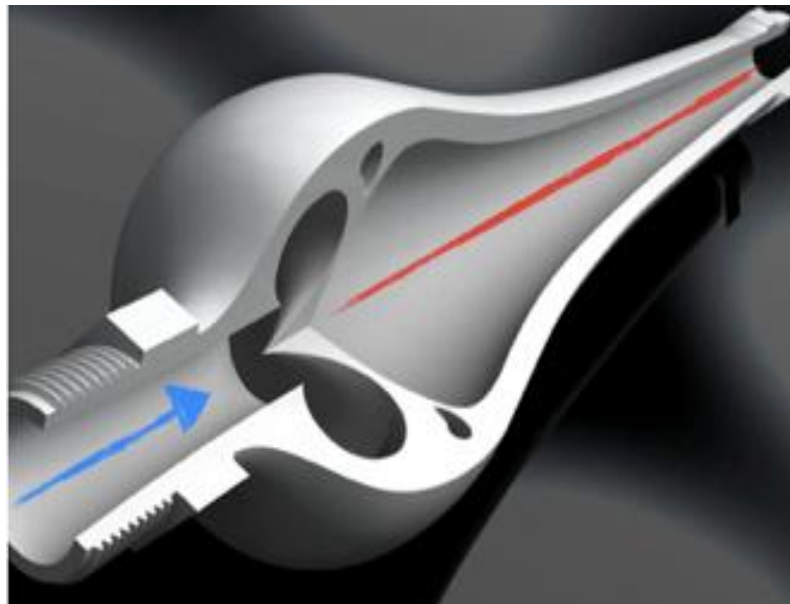
Converting mixed waste to liquid fuel

- Simple bio-chemical process mimics digestion
- Modular, small or large scale are all economically viable
- cost effective, payback in around 12 months
- Input – mixed wastes
- Outputs, clean metals, plastics and a valuable fuel - Butanol



Water Treatment

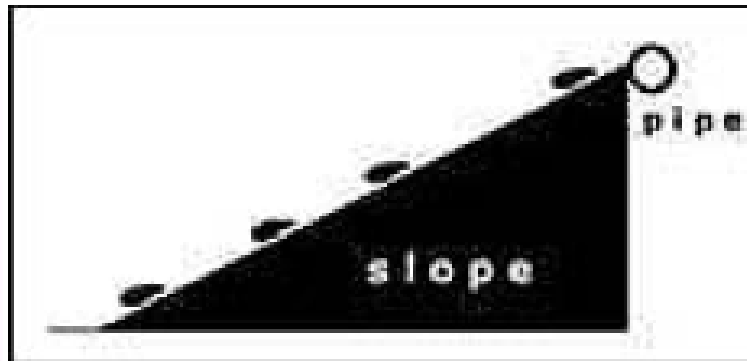
Simple, natural, no moving parts, water treatment to remove particulates and contaminants from water



Sewage and Organic Waste Treatment

A very simple system for manure management in animal housing where wild populations of black soldier fly colonize the fresh manure that has dropped to a lower level

- Simple A simple ramp and PVC pipe system directs pre-pupae to self-harvest for resource recovery
- No extra facility or energy are required. This system can work for a few animals or a large farm
- Approximately 58 tons of pre-pupae could be self-collected from the manure of 100,000 hens in 5 months



Gas cracking to high value products

Content to be added by VLad

- High value carbons from waste gas
- Solving the sour gas problem
- Novel sulfur compounds from gas field residues
- Environmentally clean natural gas

High efficiency separation

Content to be added Phil

Vortex technology using low pressure air for

Drying

Grinding

Separation

Eliminating fertilizers

Content to be added by David

Mimicking nature to:

- Fixating nitrogen from the atmosphere
- Eliminating contaminated water run off
- Improving crop yields and farmers profits
- Put the control of seeds back into the hands of farmers

Changing digital communications

Content to be added by Steve

Sustainable data centers

- Reduces the energy demand of data centers by more than 80%
- Reduces the size of data centers by more than 80%
- Combines with food security and low cost, high reliability power generation
- Enables distributed high reliability data networks
- Eliminates brown out issues

BUSINESS DEVELOPMENT

Operating on all continents with our

BUSINESS DEVELOPMENT TEAM

Anne-Maree Huxley
Australia and NZ

Carlos Izurieta
Ecuador and Peru

John Hassard
Qatar

Garret LoPorto
USA

Curt Hallberg
Sweden

Phil Risby
England and
Europe

Aysha Griffin
Mexico

Ian Hamilton
Dubai

Justin Last
Caribbean

Martin Blake
Italy, Europe and
Singapore

Steven Xinwei
Hong Kong
and China

Michael Knagenhjelm
Norway and Canary
Islands

Nigel Grier
Singapore and
Australia

Nothing could happen without our

SUPPORT TEAM



Garret LoPorto

Media and communications, founder of Wayseers and Upriser, Garret has extensive media experience



Justin Last

Financial Services background



Simon Morris

Financial Services background



Derek Barr

Legal and contracts, past president of London Business School Enterprise 100 club



Ignacio

Mining background



David Beer

Marketing and media background



Naomi Freeman

Personal Assistant Administrator, coordinator and primary point of contact.



Nicole Risby

Ecocide support and application to industry and investors

Financial infrastructure

Bridging the gap between creative solutions and
funding sources



Berenberg Bank

- One of the oldest and most respected banks in the world, founded in 1590
- Extensive family offices
- Impact fund management
- Provides financial infrastructure support to all BE Companies



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Telefax +49 (40) 350 60 905



Simon this is your page

In house funding capability

- Simon to describe the € multi billion fund

Funding pool

Matching funds to projects, BE Intermediary Services works with and advises a number of investment funding sources

- HanHong Private Equity
- Forbes Private Equity Group
- G2 Investments
- Makara Capital / Asian Development Fund
- QED Equity
- RoseCastle
- Sirin Capital
- And several more



THANK YOU!

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