

AgriProtein is leading a new global industry - *nutrient recycling*: Using organic waste, fed to fly larvae to create protein for animal feeds.

This sustainable protein source will supplement the increasing demand for animal protein as current sources are limited. It is a global project focussed on the fish and chicken feed industries - catering to a growing world population.

Vienna, 20.10.2010

"Between now and 2050 the worlds population will rise by a third, but world demand for agricultural goods will rise by 70% and demand for meat will double..." Protein Crisis
Industrial farming of poultry, fish and pigs requires large amounts of protein.
Protein-Sources today are mainly from soya and fish meal and cannot cover tomorrows demand.

AgriPrOtein

 The growing world population and a fast increase of wealth and meat-consumption in China and India will fuel a rising demand for alternative Protein-Sources.



AgriProtein The Animal Feeds Market

- Protein for animal feed is an industry worth over € 70 Billion p.a.. The prices for soya- and fishmeal have more than doubled in the last five years.
- Fishmeal is fast depleting (overfishing) and land for further soya cultivation is limited.
- The world is facing a Protein Crunch.



AgriProtein Technology

- AgriProtein has mastered the task of producing sustainable protein by using Musca Domestica larvae.
- AgriProtein uses organic waste fed to fly larvae to create high quality and low cost protein.
- AgriProtein's main advantage is a consistent product at a competitive price, with global availability.
- AgriProtein is better in quality, taste and digestibility than competitor proteins.

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	Different Fo	eed fo	or l	a	rva	e	
				Treatment			
		Ingredient	Unit of	1	2	3	4
			measure	(control)	300ml blood and sugar	300 ml blood and yeast	300 ml blood, sugar an yeast
~	Blood – higher Dry Matter	Yield (wet)	g	497.5	532.5	402.5	487.5
0	blood – higher bry Matter	Yield (dry)	g 🧲	77.5	85	80	92.5
		Percentage dry yield	%	15.58%	15.96%	19.88%	18.979
	yield than on standard feed	Moisture	(%)	0	0	0	0
		Dry matter	(%)	100	100	100	100
		Crude protein	(%)	58.86	59.95	59.85	63.17
0	Manure – difficulty in seperating	Crude fat	(%)	13.92	15.56	18.72	17.10
		Crude fibre	(%)	6.89	7.58	7.49	6.83
~	Substrate free ourreptly refining	Ash	(%)	11.42	10.29	8.42	9.20
0	Substrate free – currently reinning	Са	(%)	0.28	0.22	0.20	0.19
		P	(%)	2.39	2.15	1.97	2.14
		Mg	(%)	0.64	0.85	0.84	0.60
		Na	mg/kg	8987.82	14608.48	7105.89	9684.75
		К	(%)	2.20	1.88	1.51	1.72
		Fe	mg/kg	553.68	798.32	441.32	458.97
		Zn	mg/kg	300.53	212.76	181.39	172.35
		Cu	mg/kg	15.61	17.43	11.06	2.79
		Mn	mg/kg	260.53	270.79	279.96	205.96
		AI	mg/kg	32.40	26.58	12.38	16.23
		В	mg/kg	0.80	0.75	0.52	0.54







AgriProtein Proof of Concept

- AgriProtein is operating two research and production facilities in Cape Town, South Africa and working in conjunction with the department of Animal Sciences at Stellenbosch University.
- AgriProtein has delivered the proof of concept and developed proven methodologies for the profitable farming of larvae as an animal feed source.
- An international management team has been established to develop the commercial pilot-plant in Germany and maintain the research and development in South Africa. The German Government will fund the pilot-plant up to 50%.
- Initial customer-agreements are already in place to purchase the output.







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			blood and	blood and	blood,	
			sugar	yeast	sugar and yeast	
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AgriProtein Management Team

- Jason Drew Chairman: CEO of a listed services business, Board Member of many international financial services businesses including GE Capital, Egg and a successful serial entrepreneur with a solid track record. Lives in South Africa.
- David Drew Marketing & Sales: M&S and M&A specialist within the Telcoms industries, Entrepreneur with years of successful experience in M&S for various companies. Lives in South Africa.
- Duncan Miller Finance: Chartered Accountant and entrepreneur, formerly with KPMG. Lives in South Africa.
- Dr. Elsje Pieterse R&D: Department of Animal Sciences, Stellenbosch University. Lives in South Africa.
- Roy Rudolphe Production: Entrepreneur in the Film production and retail industries; has built and is in charge of the current production and development facilities and works closely with Stellenbosch University. Lives in South Africa.
- Hans Wollmann Managing Director: Former Board Member of a leading Amino Acid manufacturer (Evonik-Degussa) specialising on bioconversion and Fermentation. Entrepreneur. Lives in Germany.

AgriProtein Advisory Board

- In addition to the Management Team, AgriProtein has established an advisory board to steer the strategic development of the business. This will be expanded to six members. The advisory board will meet three times a year to provide input to the management team.
- Dr. Heung-Joon Yang, Korea: Biochemist and Engineer, former CEO of LG Life Science, Member of several Biotech Organisations in Korea and former advisor to Ministry of Science and Technology.
- Dr. Salim Bootwalla, Singapore: Doctor of Veterinary Medicine, Ph.D. in Poultry Science, 14 years as technical support for Evonik-Degussa in Asia now technical Director for ASA in Singapore.
- Dr. Lars Ottosen, Denmark: Ph.D. Microbial Ecology, Assistant Professor, Aarhus University, Senior Consultant at the Danish Technological Institute.
- Kiran Bhojani, Germany: 17 years Head of Investor Relations of E.ON (Executive Vice President of Investor Relations), winner of several worldwide Awards for best Investor Relations Officer, now Managing Partner at Hering Schuppener Consulting.