## ROTEM AGROTECH



# Biology Microsystem Livestock Feeding



# Agriculture Today



#### Global Surface Area Allocation for Livestock Food Production 50% ·71% Agriculture Habitable Land 77% 0cean

#### Livestock

Livestock is the word's largest user of land resources, with grazing land and cropland dedicated to the production of agricultural land &D% almost



# Agriculture Today Consequences



#### Global Surface Area Allocation for Livestock Food Production



# Our Solution for a Better Future

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ADDRESS OF TAXABLE PARTY.

# Protein - the next generation



ROTEM Proprietary, Cutting Edge, Just-in-Time (JIT), All- year-round Growing platform for Livestock feeding based on patented cultivation protocols to achieve High Protein Sprouts at lower CAPEX spending while OPEX reduced drastically

#### System Benefits

- Constant growing 365 days a year
- Zero dependency on weather or geographic location
- Fast growing cycle Seed to feed in 7 days
- High Protein fresh sprouts supply on a daily basis
- Self-Sustained feeding Operation you grow you feed
- Cost Effective -reduction in feeding costs !
  - Livestock LOVE Fresh Sprouts 75%min. digestibility



Each crop in an land of 1,000m2 in our system release **4,000,000**m2 for growing wheat for bread or any other purpose



mg 1.9 Manganese

mg 0.3

#### NO USE | of Pesticides, fertilizers



A computer controlled system, which controls watering of the seeds according to their needs and aided by air humidity. The result -

## 95% water saving



A full automatic conveyor system from seed to harvest

# 7 DAYS Growing Cycle



#### On site Production

Feeding plants located onsite next to livestock habitat Just-in-time sprouts production

#### Whe

DAIRYLAND Laboratories. Inc. To: Piryon Shai Porat

Moshav Avigdor Israel 83800,

	Wheat					
Dairyland Li 217 E. Man Arcada, Wi Telephone: Fax: Email:	aboratories, Inc. 51 54612 608-323 2123 605-323 2184 enfo@dawytandubs.com	a	Report Date: 10/23/2019 Sample No.: 001-1910-037801 I			
		Account No.:	3597 (0)	Te		
		Sampled By:	Piryon	10		
		Sampled For:	105863			
		Test Mode: Feed Type:	D1M2 Other Feeds	Pro		

Product:	wheat sprout		Feed Type: Sub Type:	Other Feeds Other	
		Dry Basis	As Is		
Summary					
Moisture		9.42%			
Dry Matter		90.58%			
Results					
Crude Protein	%DM	25 00	22 64		
AD-ICP	%DM	0.85	0.76		
ADF	%DM	29 04	26.30		
aNDF	%DM	53.96	48.87		
aNDFom	%DM	52.91	47.92		
Lignin (Sulfuric Acid)	%DM	3 98	3 60		
Lignin	%NDFom	7.52	7.52		
Fat (EE)	%DM	4.23	3.63		
Ash	%DM	3 25	2 94		
Calcium	%DM	0.26	0.23		
Phosphorus	%DM	0.68	0.61		
Magnesium	%DM	0.25	0.22		
Polassium	%EDM	0.59	0.53		
Sultur	%DM	0.27	0.24		
Calculations					
Adjusted Crude Prote	MG# n	25 00	22 64		
NFC	%DM	14.61	13 23		

#### Vetch

DAIRYLAND Laboratories, Inc.		aboratories, Inc. Sl. 54612		Report Date: Sample No.:	10/23/2019 001-1910-037803	
		608-323-2123 608-323-2184 nlo@darylandabs.com				
To: Piryon			Account No.:	3597 (0)		
Shai Porat Moshay Avindor			Sampled By: Sampled For:	Piryon		
Israel 83800,				105865		
Product: vetch sprout			Test Mode: Feed Type: Sub Type:	D1M2 Other Feeds Other		
	1,15%	Dry Basis	As Is			
Summary		The second second				
Moisture		8.15%				
Dry Matter		91.85%				
Results						
Crude Protein	%DM	44.88	41.22			
AD-ICP	%DM	1.25	1.14			
ADF	%DM	23.93	21.98			
aNDF	%DM	29.23	26.84			
aNDFom	%DM	27.73	25.47			
Lignin (Sulfuric Acid)	%DM	4.61	4.23			
Lignin	%NDFom	16.62	16 62			
Fat (EE)	%DM	2.12	1.94			
Ash	%DM	4.90	4.50			
Calcium	%DM	0.43	0.39			
Phosphorus	%DM	0.81	0.74			
Magnesium	%DM	0.23	0.21			
Potassium	%DM	1.52	1.39			
Sulfur	%DM	0.32	0.29			
Calculations						
Adjusted Crude Protein	%DM	44.88	41.22			
NEC	%DM	20.37	10.71			

# Business Case

#### Current Feeding:

Costs 1 ton =550

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117 ÷

Per day =4400 US\$

Per year 1,606,000

Rotem feeding costs:

l ton =87.5 US\$ Per day =700 US\$ <u>Per year =255.500</u>

ation is based on 1,000 cattle operation

#### CAPEX investment Our fodde



A conveyors full automatic system cost: 3,500,000 \$US

Feeding Cost Saving Per year: 1-351-000 \$US

\*based on & tons production per day

## Let's Make the World a Better Place





ROTEM | THE FUTURE OF PROTEIN