
Powerhouse Ventures Limited Annual General Meeting 2019 Chairman's Presentation

Agenda

2020 A New Vision for Powerhouse

- Update on portfolio
- Our 2020 Mission
- Our 2020 Business Model
- Major shareholder support

Portfolio

Portfolio Company	Enterprise Fair Value (NZ\$'000)	Powerhouse amount invested (NZ\$'000)	Powerhouse shareholding (%)	Powerhouse Fair Value (NZ\$'000) (as at 30 June 2019 unless specified)
Pre-seed				
Cirrus	8,333	150	7.2%	150 ¹
EdPotential	487	150	15.4%	0
Hapai	275	150	47.4%	125
Orbis	1,000	50	5.0%	0
auramer	3,118	250	12.6%	396
2.2 GForce	110	100	100.0%	110 ²
	13,323	850		781

¹ Cirrus share price revalued to \$4 per share in September 2019

² 2.2 Gforce written down to zero in October 2019

Portfolio

Portfolio Company	Enterprise Fair Value (NZ\$'000)	Powerhouse amount invested (NZ\$'000)	Powerhouse shareholding (%)	Powerhouse Fair Value (NZ\$'000) (as at 30 June 2019 unless specified)
Seed²	-			
Hot Lime Labs	1,473	108	7.3%	108 ³
Avalia	4,792	460	9.7%	522
Ferronova	2,230	575	25.2%	575
Fluent	-	570	15.4%	0
Objective Acuity	6,279	250	12.4%	791
Photonic	1,224	655	30.6%	0
Tiro	-	0	29.6%	0
Veritide	1,137	1,470	44.0%	0
CertusBio	1,016	314	30.6%	314
Inhibit Coatings	521	150	28.9%	150
	18,673	4,552		2,460

³ Invested a further \$103,926 in Hot Lime Labs in October 2019

Portfolio

Portfolio Company	Enterprise Fair Value (NZ\$'000)	Powerhouse amount invested (NZ\$'000)	Powerhouse shareholding (%)	Powerhouse Fair Value (NZ\$'000) (as at 30 June 2019 unless specified)
Post-seed				
Croplogic	14,335	1,030	3.0%	496
Invert	35,234	490	8.1%	2,836 ⁴
MARS	10,494	726	6.4%	968 ⁵
	60,063	2,245		4,300

⁴ Sold all Invert shares in November 2019

⁵ Sold all remaining MARS shares in October 2019

HT SYSTEMS Revolutionising Patient Transfers

2 MINUTE SINGLE CAREGIVER TRANSFERS



Quick and easy fitting with unique chest pad and back strap system



Patented mechanical leverage provides easy operation for carers



Single carer operation
Safe and secure

HIGHLIGHTS

JAN 2018	START UP
DEC 2018	SUCCESSFUL TRIALS WITH TARGET PATIENTS
JUNE 2019	LONG TERM TRIALS UNDERWAY (INCL.OCEANIA GROUP)
JULY 2019	FIRST SALE
NOV 2019	FIRST MINISTRY OF HEALTH SALE AUSTRALIAN TRIAL

50+ demos
10+ long term trials
5 sales + 7 in advanced pipeline

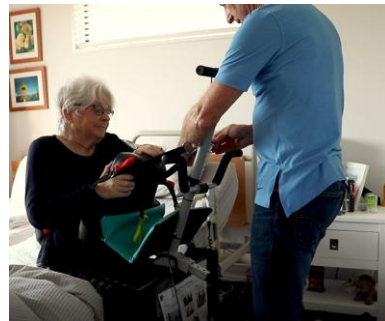
"We have found the Kera both effective and efficient for transfers and we believe that this has contributed to a safer working environment and reduced the likelihood of carer injuries. Our residents, who use the Kera, are happier with the quick and safe transfers"

Karen Blackburn, Business & Care Manager
The Oaks Rest H



2020 MILESTONES

150 sales (100 x NZ, 50 x Au)

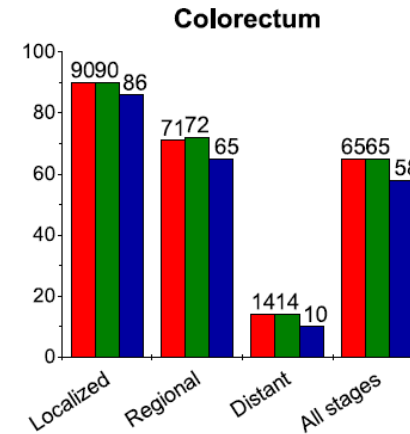
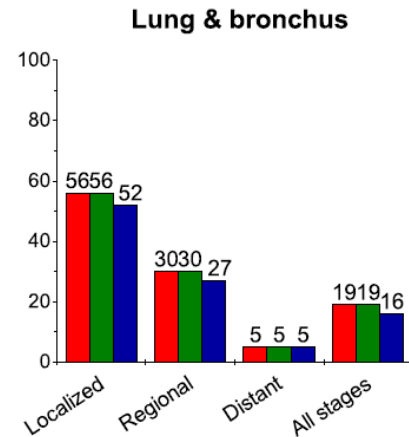


“We were at a loss before you came along...I can manage here at home by myself...and Jean doesn't have to go into a rest home”

[Erik & Jean Versteeg](#)

FERRONOVA'S MISSION

Improve outcomes in early stage cancer patients



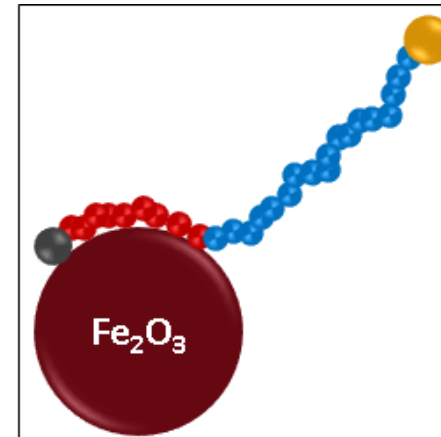
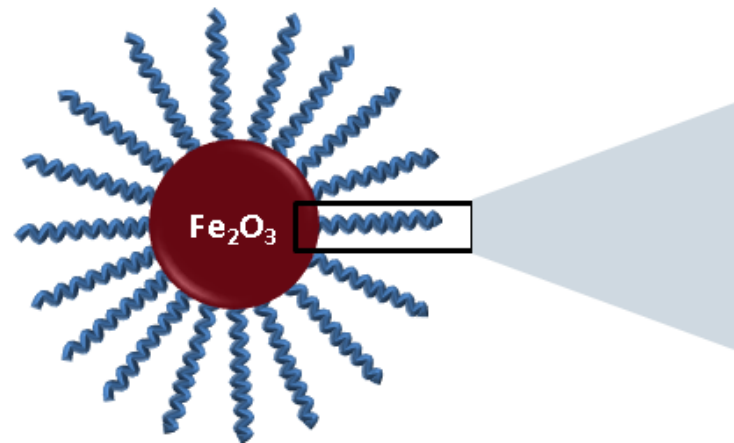
Fahim et al (2017) - 39% of localised lung cancer patients have undetected disease in lymph nodes

Protec et al (2015) – 19% of localised colon cancer patients have undetected disease in lymph nodes

FERRONOVA'S TECHNOLOGY

Superparamagnetic iron oxide nanoparticles (SPIONs)

Functionalised for cancer diagnostics and/or therapy



- RAFT end group
- Steric stabilising block
- Strong Anchoring block
- Functional end groups

FERRONOVA STATUS

Proven in animal tests

Protected by global patents

Ethics Approval for first human trial

Product manufactured for first human trial



Reducing Waste in the Food Processing Industry

CertusBio
Accurate Water Quality Monitoring

Initial opportunity: 3% of all dairy products are lost during industrial processing (NZ\$12.8 billion p.a. globally)



Decreased productivity

+



Environmental impact

+



Wasted resources

Dairy Industry Solution

CertusBio

Accurate Water Quality Monitoring

40% reduction in dairy processing losses achieved using:



+



+



=

NZ\$4 million
p.a. saving and a
1.2% reduction in
energy, water and
GHG emission
intensity

Lactose Biosensor Device

Data

People

Value created: Loss monitoring culture developed at two New Zealand processing plants

Opportunities for 2020: New Zealand, Australia, China & USA expansion; additional sensor development

powerHouse

Inhibit snapshot

- Highest performing antimicrobial paints and floor coatings
 - 25x better performance than gold standard
- Products formulated and being trialled at large dairy plants in NZ
- Engaged with multinational coatings and resin manufacturers
 - Talking with 6 of the top ten coatings companies in the market
 - five trial agreements signed
 - three currently assessing our technology
 - one MOU for joint development
- Currently closing \$1.5m on \$3m PMV round
 - 50% oversubscribed
 - Raise will secure further IP, grow team, regulatory approval and first production license in USA

Hot Lime snapshot

- Product increases large scale high-tech greenhouse crop yield
 - ~30% with CO2 extracted from waste wood
- Large scale greenhouses produce
 - ~500b crops p.a. and growing rapidly
- First pilot-scale system shipped to trial customer
 - operational by the end of 2019
 - customer has 6 sites across NZ and operations in 5 other countries
- 2020 plan
 - full scale system designed and made
 - \$5m orders secured,
 - financing for lease business model secured
 - team and manufacturing supply chain
- Raising capital in Q1/2 2020 - ~\$1m (TBC) on \$6m PMV

Transforming
pre-seed stage
companies
into real-world
success stories

Investing in emerging
commercially
compelling
investment
opportunities

Business Model

What is the business of the Company?

Powerhouse was established to identify and invest in scientific and technical innovation.

- environmental and agritech;
- engineering and cleantech;
- healthcare and medical devices; and
- information and communication technologies.

What is the Company's strategy?

Powerhouse seeks to identify valuable intellectual property emerging from Australian and New Zealand universities and Government-funded research institutes and to commercialise the IP through the formation and development of start-up companies.

Critical role of government

Vital that the risk is reduced by Governments

- Commercializing science benefits many beyond investors
 - employees
 - customers
 - competitors
 - universities and
 - Taxpayers
- All advanced economies have government support for R&D

Key risks

What are the key risks of investing in the Company?

- Company's investments are at an early-stage and carry inherent risk
- Strategy risk
- Concentration risk
- Control or influence over Portfolio Companies

Major Shareholder Support

- Ongoing collaboration
- Involved in strategic planning
- Working towards 1Q20