

# Naturally Healthy Marketing: Downunder View from New Zealand

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# New Zealand.....it's Where?

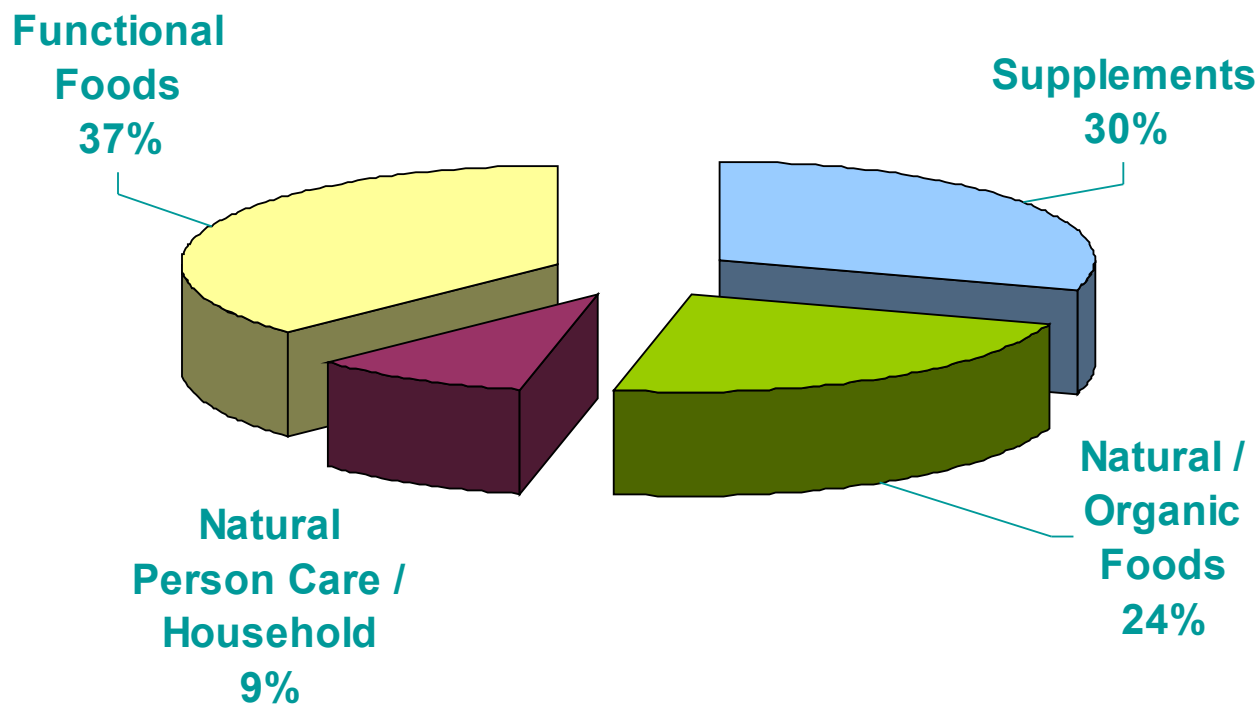


# Location, Location, Location!

- Yes it is a long way off
- Isolated by distance, but not out of touch
- Temperate to semi- tropical climate
- Unique raw materials and wide diversity of plants and products
- Clean, clear environment
- Well developed infrastructure



# Global Nutrition Industry Sales By Product Category, \$228 Billion in 2006

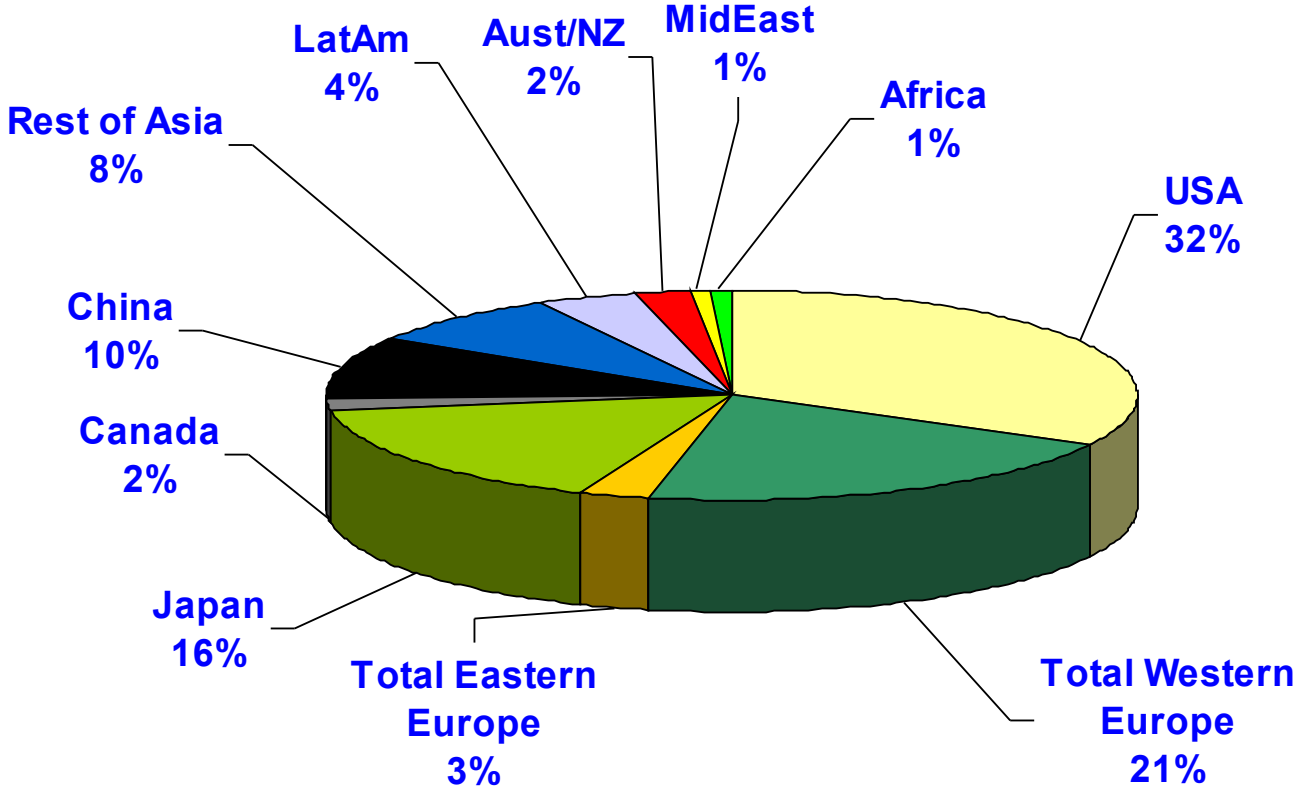


# Global Nutrition Industry Sales By Product Category

Nutrition Industry Category	2005 Sales in \$Mil	2006 Sales in \$Mil	2005-2006 Growth
Total Supplements	65,301	68,267	5%
Natural/Organic Food	49,000	53,780	10%
Natural Personal Care/Household	18,790	21,270	13%
Functional Food	79,400	85,013	7%
<b>Total Nutrition Sales</b>	<b>212,491</b>	<b>228,330</b>	<b>7%</b>



# Global Supplement Sales By Region, \$68.3 Billion in 2006

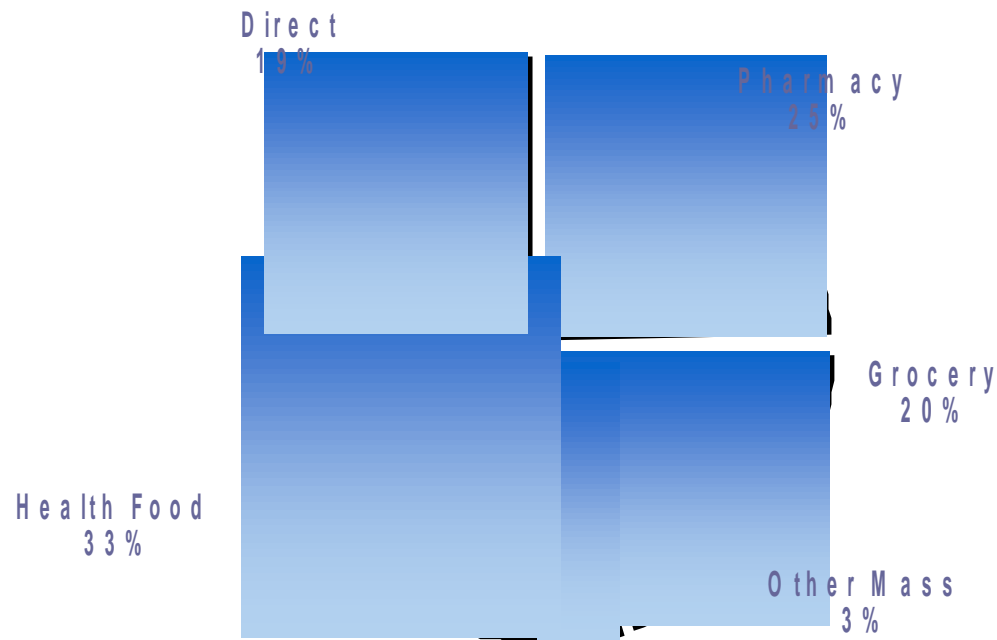


# Global Supplement Sales By Region

Region	2005 Sales in \$Mil	2006 Sales in \$Mil	2005-2006 Growth
USA	21,320	22,460	5%
Total Western Europe	12,940	13,520	4%
Total Eastern Europe	1,630	1,910	17%
Japan	11,640	11,180	-4%
Canada	1,750	1,820	4%
China	6,300	6,660	6%
Rest of Asia	4,860	5,440	12%
Latin America	2,400	2,700	13%
<b>Australia /New Zealand</b>	<b>1,440</b>	<b>1,530</b>	<b>6%</b>
Middle East	500	560	12%
Africa	460	490	6%
<b>Global Supplement Sales Total</b>	<b>65,240</b>	<b>68,280</b>	<b>5%</b>



# Supplement Sales by Distribution Channel Australia & New Zealand (2003; US \$Million)





# Key Trends in the Global Dietary Supplement Industry

## Niche countries with high value products

- New Zealand (green lipped mussel, colostrum, honey, kiwi/exotic fruits)
- Finland (functional ingredients)
- Israel (high value-added functional ingredients)
- Thailand (mangosteen)
- Tahiti (noni)
- Goji in Himalayas



# NZ Health and Nutrition Unique Product Benefits

- Unique biologic diversity
- High quality primary products production
- Clean, unpolluted source of actives
- Strict policies re GMO's, BSE, quarantine, disease free status (EU's Cat. 1 status)
- World leader in traceability
- Access to world-class R&D
- Well developed research organizations and medical facilities
- Specialized and well developed export business
- High growth health ingredient and functional food companies
- Close proximity to Asia-Pacific region
- Good innovation and success in food and beverage production



# New Zealand Health and Nutrition Markets

- Revenues for ingredients, supplements and functional foods: \$760 million NZ
- Ingredient sales: \$50 million NZ
- Approximately 50% exported
- All sectors of value chain well established
- Close trade links to Australia and health regulations developing between these countries



# Consumer & Active Ingredients Sales

(NZ Dollars)

- Health ingredient sales exceed \$50 million
- Estimated Natural Products (retail sales); ~\$400 million (12% ratio assumption)
  - Local sales (42%): ~\$170 million
  - Export Sales(58%):~\$230 million. (Japan is 20%)
- Consumer Functional Food Sales:\$270 million
  - Local sales (47%): \$127 million
  - Export sales (53%): \$143 million



# New Zealand Relies on Exports

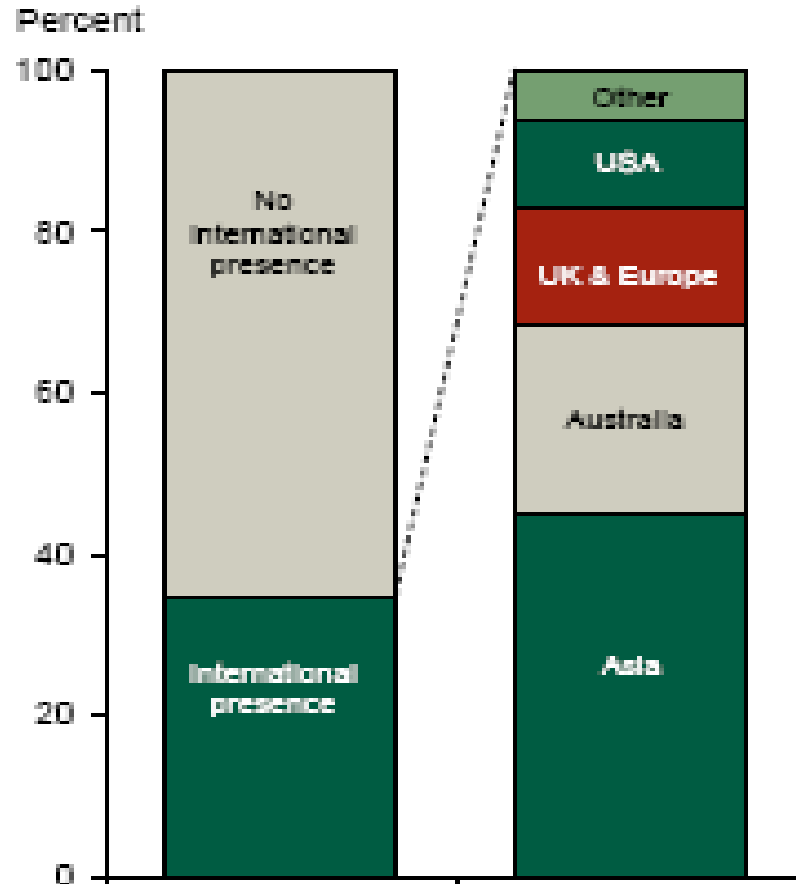
- 58% of Health ingredients exported
- 53% of Functional foods exported
- Asian Markets: 56% of earnings from Health Ingredients and 64% of Functional foods.
- Japan accounts for 20% of all NZ Health Ingredients exports



# International Presence

**35% of NZ companies have a physical presence outside NZ. Key area is SE Asia Region and Australia.**

**Physical International Presence\***



Note: \*Companies were allowed to specify more than one country

Source: L.E.K. Analysis



# NZ Health & Nutrition Companies

## Industry Makeup:

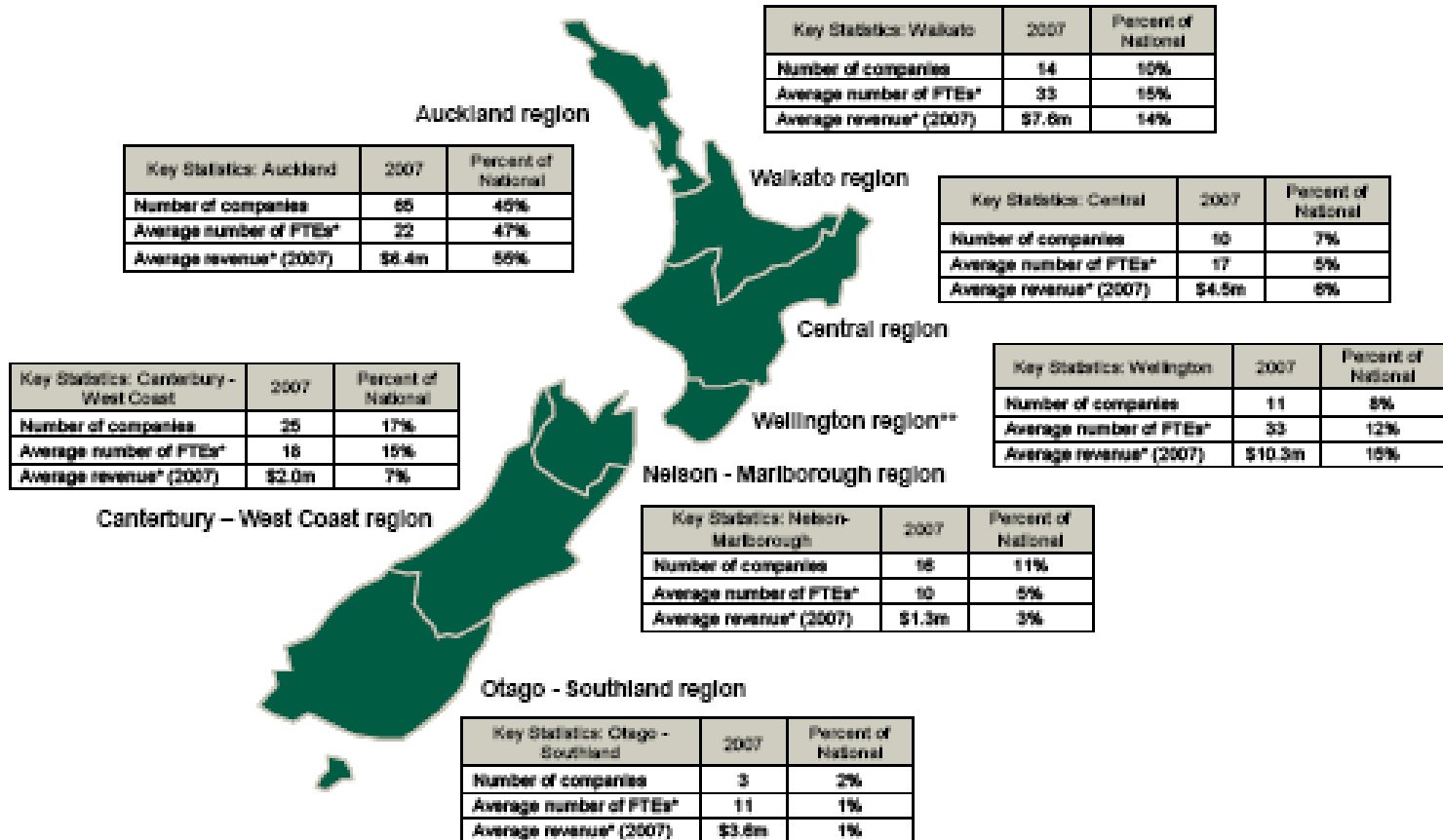
150-200 Natural Products Companies

- ~60 Health Ingredient Companies
- ~100 Functional Food Companies
- Supplement marketers
- Toll production companies
- Importers/exporters
- Revenues all sources NZ \$760 mio.



# Bioactives by Region

## Bioactives Activity by Region



Note: \* Average of companies that specified the metric, \*\* Includes companies located in Palmerston North

Source: L.E.K. Analysis





# Classes of Active Ingredients

Key Ingredient for Co.	#'s Co's	Actives
Plant Oils & Seeds	15	Avocado, Olive, Flax
Plant Extracts	15	Blackcurrant, Aloe, fungal
Herbs/Botanicals	12	Arnica, horopito
Marine Animal Extracts	11	Fish, shark, mussel
Manuka Honey/Bee prods.	18	Honey, venom, jelly, propolis
Dairy/Colostrum	10	Bioactive milk, yoghurt, colostrum

Range of other companies with Vit/Mins, deer products, animal extracts as ingredient producers or retail marketers.



# Product Range on Market

## Products Offered

Nutraceuticals & Supplements	66%
Functional Ingredients	22%
Cosmeceuticals & Ingredients	12%

Some 6600 products on the market, 630 in development.



# Science Support for Products

## Companies Commitment to Science Support

**14% Basic:** (anecdotal, literature)

**66% Intermediate:** (Rely on others work, animal or human, some in vitro studies)

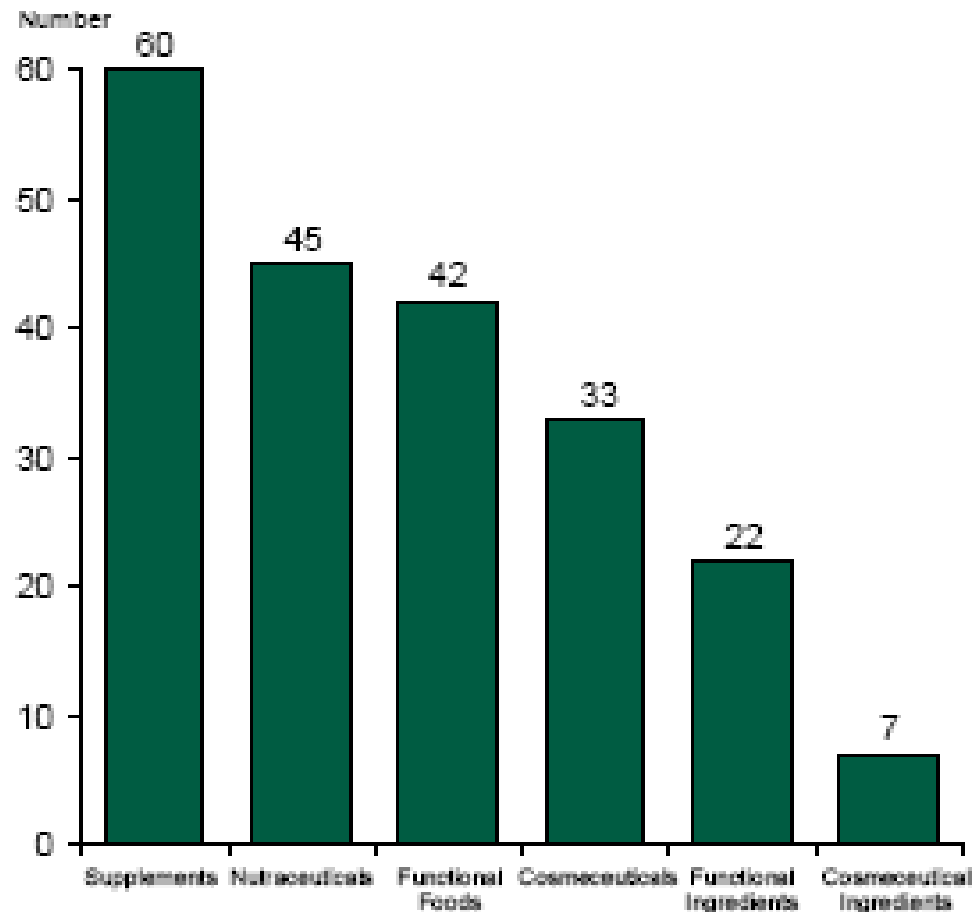
**20% Advanced:** (Do own human/animal studies, conclusive results)

**Reasons for not undertaking R&D: Too costly, field well researched, benefits already known, some products for general health and well being**



# Bioactives Companies by Sector

Bioactives Organisations by Sub-Sector, n=119\*



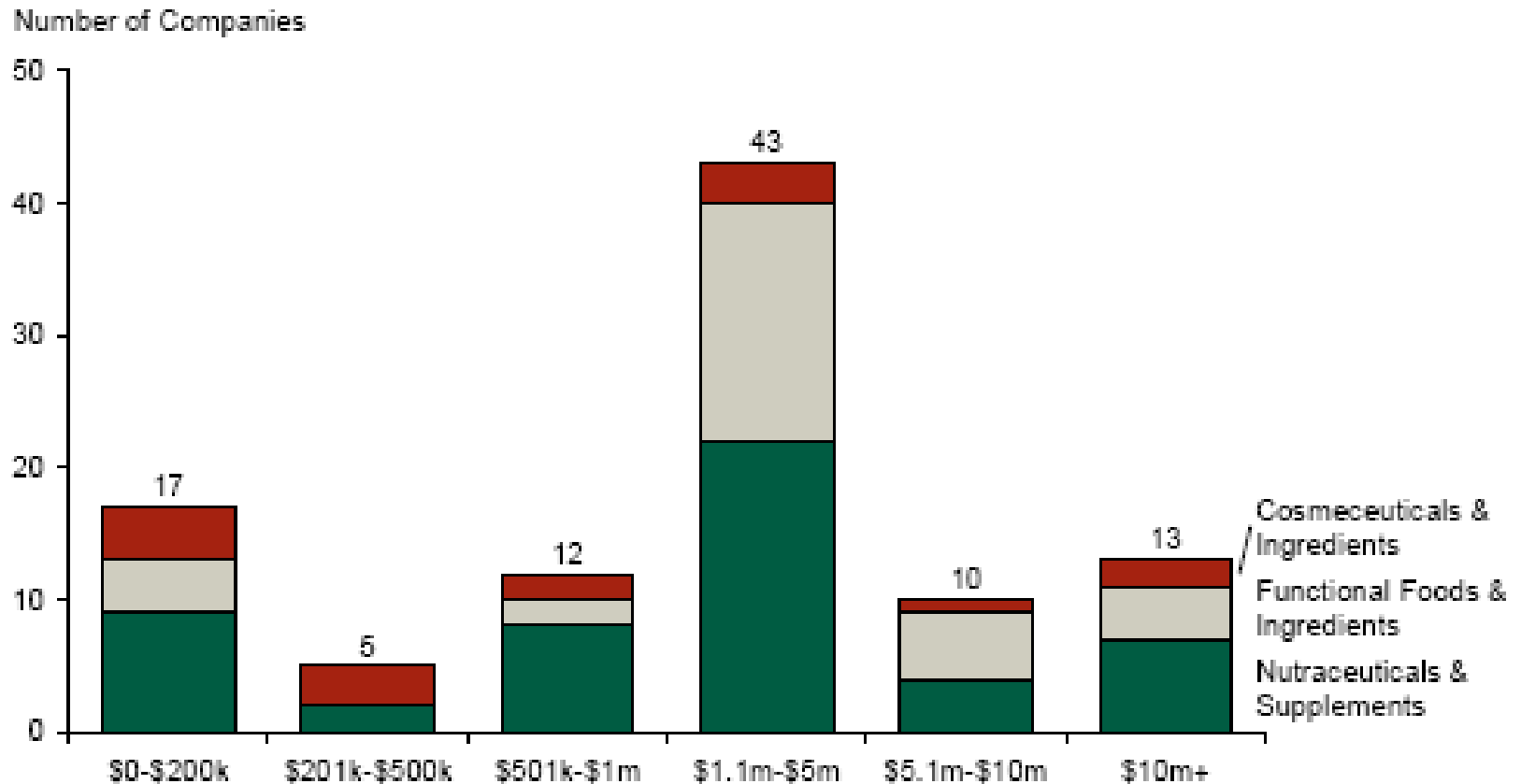
Note: \* Multiple answers were allowed to reflect overlap in industry

Source: L.E.K Interviews, L.E.K Analysis



# Bioactives Companies by Revenues and Sector

Bioactives Organisations by Revenue and Primary Sub-Sector, n=100\*



Note: \* Revenue figures refer to 2007 and are in NZ\$

Source: L.E.K. Interviews, L.E.K. Analysis



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Source: LEK Bioactives Report 2009

# Intellectual Property Protection

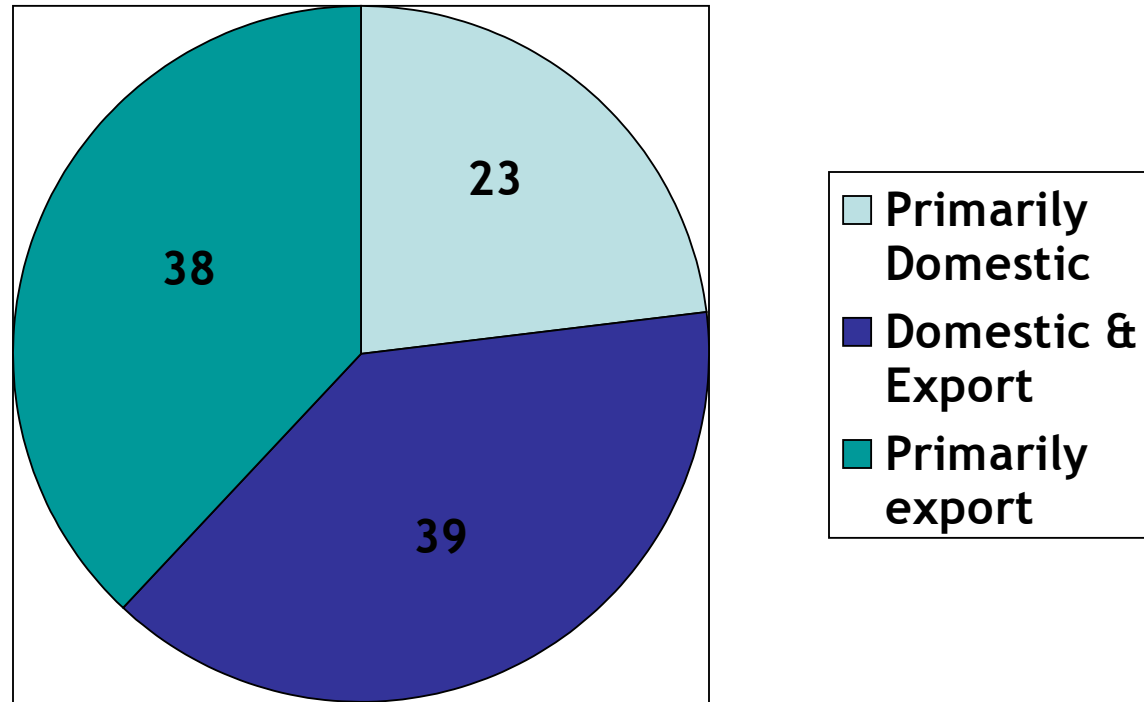
- ~80% of companies have protection
- Of these, 60% TM's, 40% Pats/Pat Pend.
- Geographic area covered is NZ, Aust., USA, China, few have global protection



# Sales & Marketing Focus for NZ Co's.

- 70% companies consider sales/marketing their key area
- 40% of companies consider distribution as their key area

Percentage of business for Export or Domestic markets



# NZ Health & Functional Food Companies Activities


Sector	Percent.
Body Care	35%
Dietary Supp.	32%
Bee products	27%
Honey products	26%
NZ production botanicals	23%
Veterinary	23%
Fish/marine	21%
Importation botanicals	21%
Vitamin/minerals products	20%
Deer velvet	18%





# NZ Health & Functional Food Companies

(selection)

Active Ingredient Co's.	Supplement/ Functional Food Co's
Keratec	Horley's (Fonterra)
Extracts NZ	Comvita
Olivado	Healtheries of NZ Ltd.
Extract Solutions	Vital Foods
SeaDragon/Merinova	Little Karoo
Blis Technologies	Functional Nutrition
RMF Nutraceuticals	Nutralife
Avocado Oil NZ Ltd	
Functional Nutraceuticals	<b>CUSTOM MANUFACTURING PACKAGING</b>
Speirs Technology	Alaron Products
Grapeseed Extract Co.	GMP Pharmaceuticals
Waitaki Biosciences	
NutriZeal	
Forest Herbs Research	
Fonterra	
 <b>Ceres Consulting</b>	

# New Zealand's Unique Product Offerings

## Botanical Origin

- Manuka honey
- Horopito (botanical)
- Barley beta glucans
- Flax
- Kumara (NZ sweet potato)
- Avocado
- Boysenberry
- Feijoa
- Gold Kiwifruit
- Kiwiberry
- Tamarillo
- Olive extracts
- Grapeseed extracts
- Pip fruits (apple/pear)

## Animal Origin

Green lipped mussel extracts  
Wool keratin  
Colostrum, immunoglobulins  
Animal organ extracts  
Fish/marine oils  
Deer velvet



# Barriers to Growth

## Barriers to Growth of NZ Industry

- Regulation related, 30% of companies.(both as to NZ/Aust. Regulations and foreign country Regs.)
- Funding related, 60% of companies (for a range of functions with R&D high)
- Barriers to commercial & exports (access to distrib. channels, experienced overseas partners and contacts)
- Capability and resource barriers (human resources, R&D support, high quality RM's)

NZ Bioactives Report 2009

Table 15. Ranking of Barriers in Exporting

Export Barrier	% of Companies
Establishing Offshore Contacts	66%
International Regulations	66%
Lack of Available Capital	52%
Required Documentation	47%
Joint Therapeutic Agency	35%
MAF	32%
Shipment Costs	29%
Product Classification	29%
Quarantine Procedures	24%
Customs Duties	21%
Legal Issues	19%
Language barriers	14%
Cultural Factors	11%
Other *	27%



# Natural Products NZ

- National industry organization representing the natural and functional foods industry.
- Founded in 2002
- Membership of over 60 companies representing >80% of NZ's natural products output
- Well respected by government agencies
- Founded to be the voice of the NZ natural and health products industry.

[www.naturalproductsnz.org](http://www.naturalproductsnz.org)



# Research Organisations Supporting Health & Nutrition

More than 15 R&D Organisations from Gov., Crown Res. Institutes (5 CRI's), Univ. based centres and clinical schools.

## CRI's

- AgResearch; [www.agresearch.co.nz](http://www.agresearch.co.nz)
- Crop and Food Research; [www.crop.cri.nz](http://www.crop.cri.nz)
- HortResearch; [www.hortresearch.co.nz](http://www.hortresearch.co.nz)
- Industrial Research Ltd; [www.irl.cri.nz](http://www.irl.cri.nz)
- Nat. Institute of Water & Atmospheric Research



# Research Organisations Supporting Health & Nutrition (Contd.)

## Other R&D Organisations:

- Agriquality
- Formula Foods
- Meat Biologics
- Biodiscovery Investigation Group
- BioActivity
- Riddet Centre, Massey Univ; [www.riddetcentre.massey.ac.nz](http://www.riddetcentre.massey.ac.nz)
- Bioactives Research Centre
- Bioactivity Investigation Group; (Univ based)



# Key NZ Universities in Health & Nutrition

- Lincoln University, agriculture
- Massey University, agriculture
- Otago Univ. medicine
- Auckland Univ. medicine/clinical trials



# THE RIDDET INSTITUTE

...ADVANCING KNOWLEDGE IN FOODS AND BIOLOGICALS

**“World-class science ~ creating strategic opportunities for New Zealand by advancing knowledge in foods and biologicals”**





# Formulation and Extraction Centres

- **Extracts New Zealand;** extractions, formulations
- **Extract Solutions;** SFE extractions
- **Spiers Technology;** formulations, manufacturing
- **Riddet Centre;** formulations, encapsulation
- **IRL, Industrial Research Ltd.**



# NZ Government Supporting Health & Nutrition

- Industry NZ
- NZTE
- CRI's (now becoming private corps.)
- Investment funding
- Agriculture research

The bottom line is to add value to NZ's  
agriculture and food industries and to producers  
and manufacturers



# BLIS Technologies

- Spin out from Otago Univ. research
- Company formed 2000 with new unique probiotic bacteria to fight Strep. throat infections.
- Launched retail in NZ and SE Asia area Blis K-12 OTC product
- Commercial collaboration with Frutarom USA to launch in US and applying for food ingredient status.
- Possible other applications of using these bacteria to fight other infections in humans and animals and reduce use of antibiotics medications.
- Next generation products in the pipeline



© BLIS Technologies Ltd 2008



# COMVITA NZ Ltd.

- Developed medical use of Manuka (NZ native species) honey, MediHoney for external and internal use
- Honey has unique antibacterial properties
- Comvita with Univ. R&D developed specific tests for antibacterial strength (UMF) ratings based on phenol equivalents.
- Clinical studies based on folklore proved the antibacterial properties and benefits in wound healing
- University research and published papers
- Comvita now launching new supplement products based on Olive leaf extracts

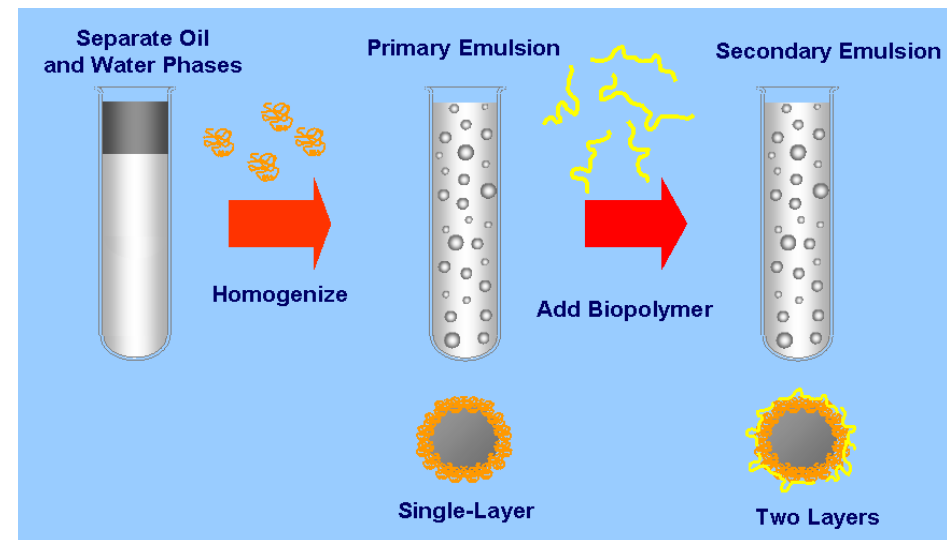


# Speirs Nutritionals



- Part of Speirs Food Group founded over 100 years ago
- Collaboration with Riddett Cntr. developed new encapsulation technology
- Uses applicable to LC Omega-3's, other unstable actives
- Multi-layered emulsion system
- Uses in variety of foods
- GRAS for USA
- Initiated own launch strategy but recently announced partnership with CRODA to go worldwide starting with LC omega-3

## Multi-layered Emulsion



Fonterra **Anlene**™ EXPERT IN BONE NUTRITION

# Bone Health Products

- Developed by Fonterra NZ dairy cooperative
- Dairy based with added vit/min/proteins
- Clinical studies support benefits claims
- Major uses in SE Asia, AU,NZ, 13 countries in total
- Range of products with Health professional support in each country



# New Zealand ... New Thinking!

- Major focus on export activities
- NZTE has identified agricultural extracts to add benefit to NZ food companies and for export
- Major initiatives is to build alliances supporting NZ companies in many sectors but especially health and nutrition
- Looking to support NZ companies to forge relationships in key areas for health and nutrition products



# Thank You



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