

TARGET MARKET OPPORTUNITIES IN ASIA FOR PROCESSED HAM









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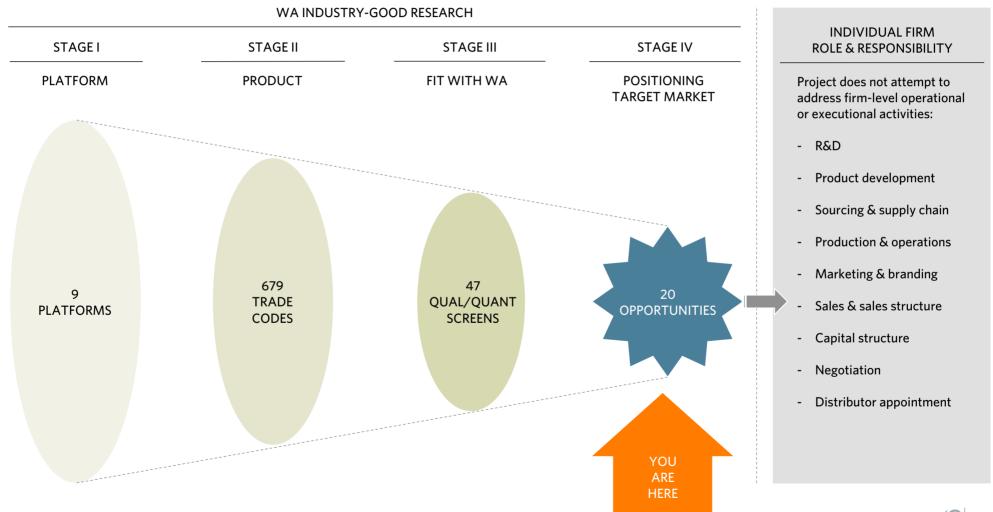
FINAL v100; April 2016



SCREENING OVERVIEW

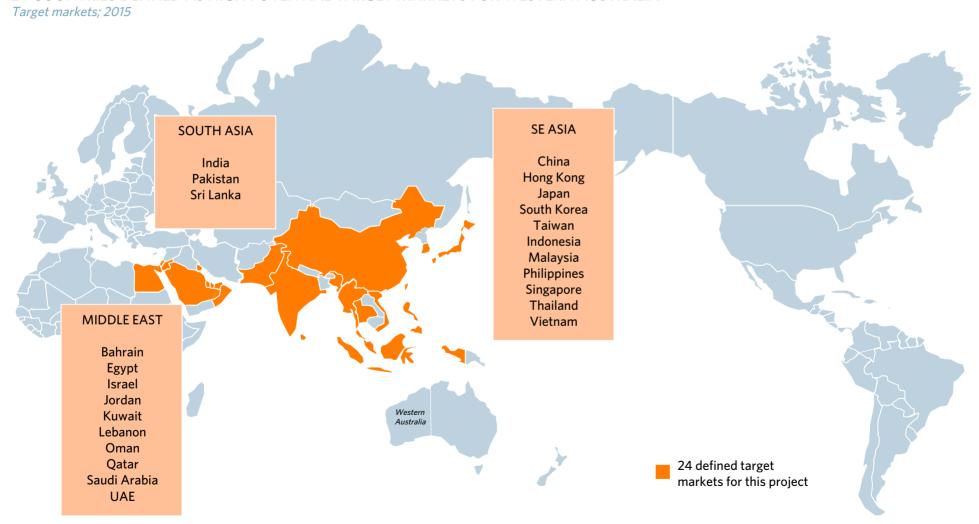
In Phase One of the Target Market Opportunities in Asia for WA Premium Products Report (TMO Report), extensive import/export trade data was fed through a multi-stage screening process to "hone-in" on potential opportunities for Western Australia; stakeholder interviews also fed into this process

STRUCTURE OF MULTI-STAGE SCREENING PROCESS USED IN THIS PROJECT *Model; 2016*



This project is focused on "market demand" from the following twenty-four Asian/Middle Eastern markets

24 COUNTRIES DEFINED AS HIGH POTENTIAL TARGET MARKETS FOR WESTERN AUSTRALIA



WHAT IS THE PRODUCT?

Processed ham emerged in Phase I as one of twenty "high growth, high potential" opportunities for Western Australia; processed ham is a preserved meat that is ready to eat or used as an ingredient

PRODUCT OVERVIEW

Example; 2015



PRODUCT PROF	ILE				
HS Code	160241/160242/160249				
Product	Swine hams, shoulders, meat or offal and cuts of, prepared or preserved				
Out-of-scope	Fresh, chilled or frozen pork, pork fat, salted, dried or smoked pork cuts, ham on the bone, bacon, products containing other meats, pork liver products etc. are covered under other screened trade codes				
Origin	Pigs were domesticated in China by 4,900 BC and Europe by 1,500BC				
Example ingredients	Pork 85%, Water, Salt, Dextrose, Honey 1%, Di-polyphosphates, Tri-polyphosphates, Sodium Ascorbate, Sodium Nitrite, Potassium Nitrate				
Forms/usage	- Part of meal				
	- Ingredient in Western dishes (e.g. pasta, pizza)				
	- Gift giving				
Drivers of	- Emerging middle class eating more meat				
consumer/ market success	- Increasing Westernisation of diet				
	- Traditional protein for many of the markets				
	- Gift giving for premium products				
	- Traditional food for Western style Christmas				

DOCUMENT STRUCTURE

What is the strategic situation in the market?

In this environment, what is the opportunity for Western Australia?

Who are the potential in-market partners?

Who are the key firms in Western Australia capable of delivering?

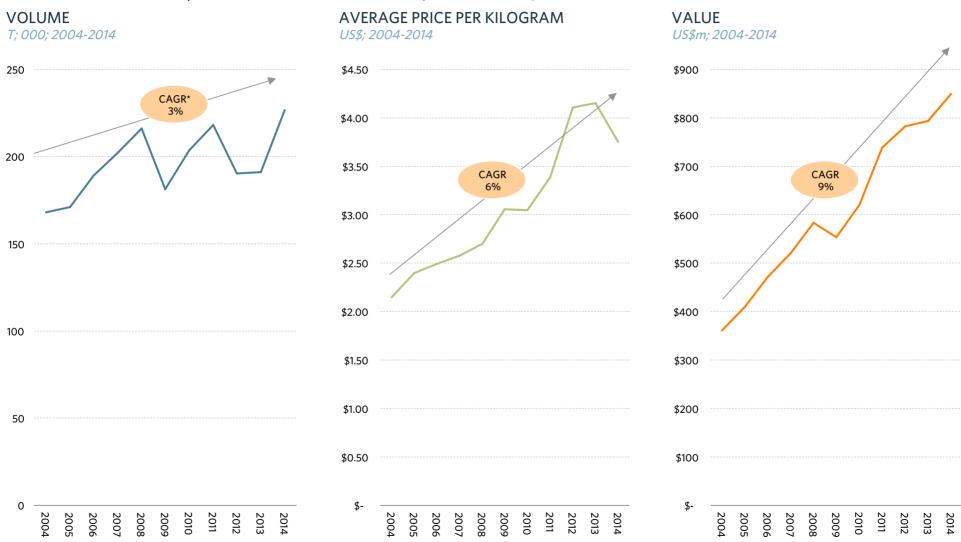


Western Australia can grow processed ham exports to Asia

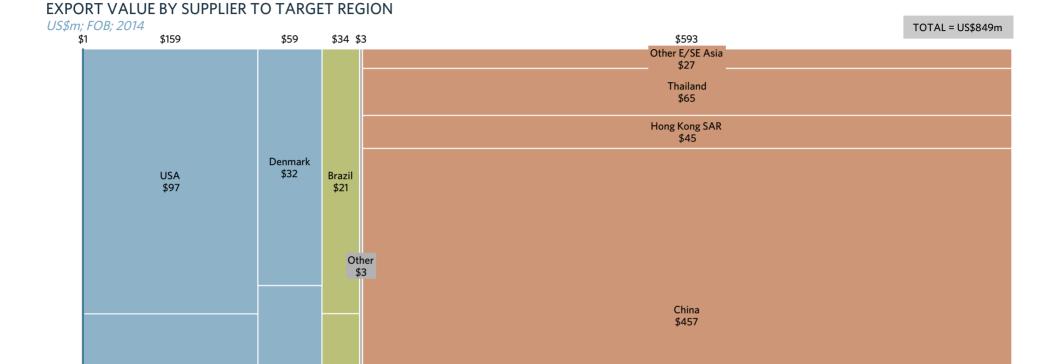
- Asian processed ham imports are increasing, with import value growth being driven by rising tonnage and increasing average FOB (free-on-board) prices
- Asian & Middle Eastern processed ham imports of any volume come from only a handful of countries: China, Thailand in Asia; and the USA, Canada, Denmark and other European countries in the Western world
 - China, the USA and Canada stand out for driving processed ham import value growth in Asia & the Middle East over the past decade
 - Canada stands out for rate of growth, and China stands out for absolute growth
 - Average FOB price to target Asian markets vary by supplier, with Australia standing out for achieving good premiums
- Processed ham goes primarily to East Asia and non-Muslim SE Asia; Japan and Hong Kong stand out as large markets, followed by the Philippines
 - Major growth in processed ham imports is coming from a handful of markets
 - Four markets stand out for creating any meaningful growth in processed ham: Vietnam, Hong Kong, the Philippines and Japan
 - Average processed ham import prices vary by region: Hong Kong and Japan pay ~\$4.40/kg; SE Asia and China pay less; the Middle East takes tiny volumes at high prices (for expats)
 - Imported processed ham consumption and aggregate imports appear almost unrelated to income per capita;
 Hong Kong is the only market that stands out
- Market share varies by country; European countries stronger in Middle East; USA strong in East Asia; China strong in Hong Kong, Indonesia, Malaysia and Singapore
- Western Australia has opportunities for processed ham export growth in select Asian markets
- Data supports new high value, premium processed ham opportunities being initially launched in (1) Singapore, (2) Hong Kong and (3) South Korea
- As a "Straw Man" for discussion, we identify an export market roll-out plan

Asian processed ham imports are increasing, with import value growth being driven by rising tonnage and increasing average FOB (free-on-board) prices

TOTAL IMPORTS TO ASIA/MIDDLE EAST TARGET REGION (24 COUNTRIES)



Asian & Middle Eastern processed ham imports of any volume come from only a handful of countries: China, Thailand in Asia; and the USA, Canada, Denmark and other European countries in the Western world



E/SE Asia

Other Europe \$27

Europe

Chile

\$13

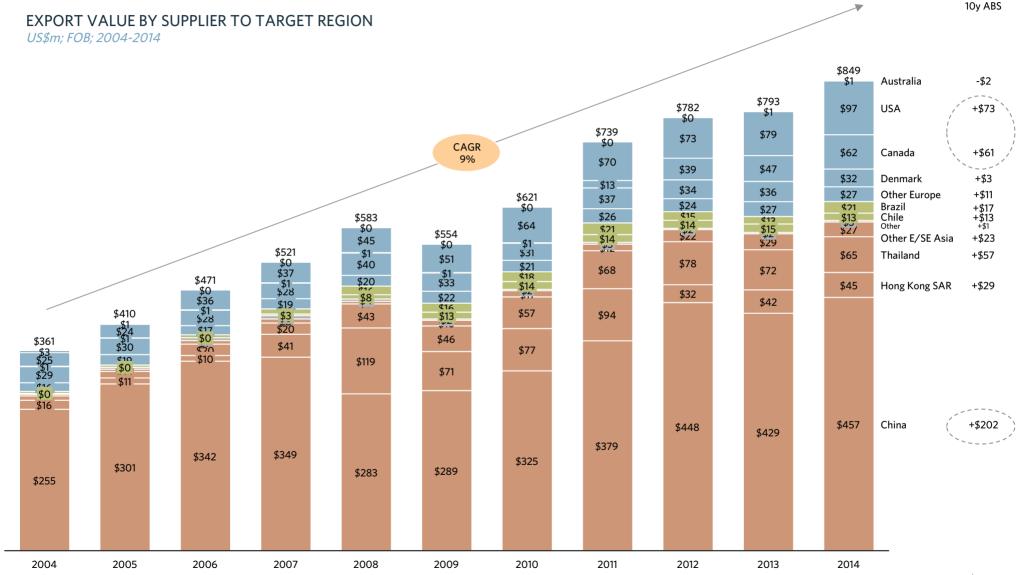
Other S. America

Canada

\$62

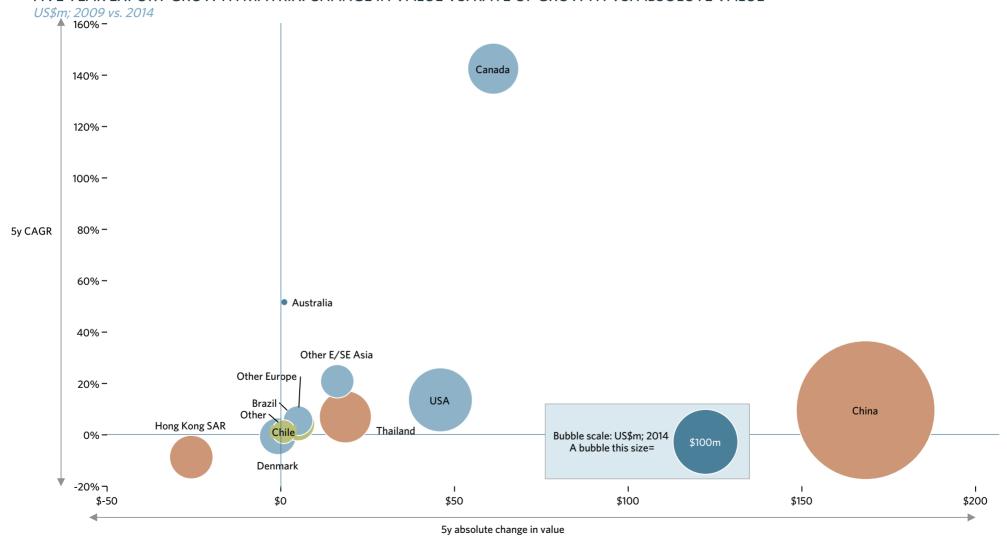
N. America

China, the USA and Canada stand out for driving processed ham import value growth in Asia & the Middle East over the past decade



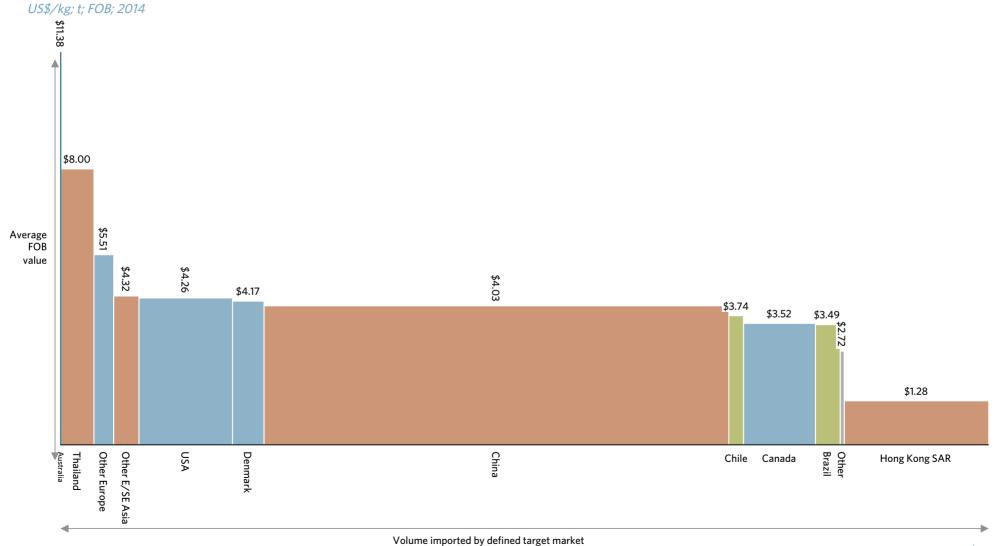
Looking at the drivers of processed ham supply growth over the past five years, Canada stands out for rate of growth and China stands out for absolute growth

FIVE YEAR EXPORT GROWTH MATRIX: CHANGE IN VALUE VS. RATE OF GROWTH VS. ABSOLUTE VALUE

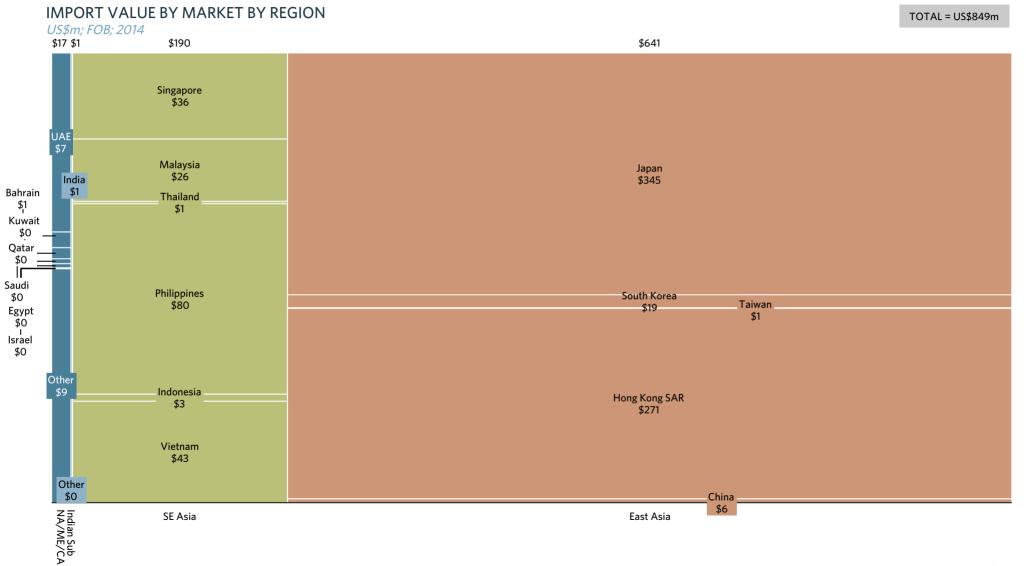


Average FOB price to target Asian markets vary by supplier, with Australia standing out for achieving good premiums

AVERAGE EXPORT VALUE COST CURVE BY SUPPLIER



Processed ham goes primarily to East Asia and non-Muslim SE Asia; Japan and Hong Kong stand out as large markets, followed by the Philippines



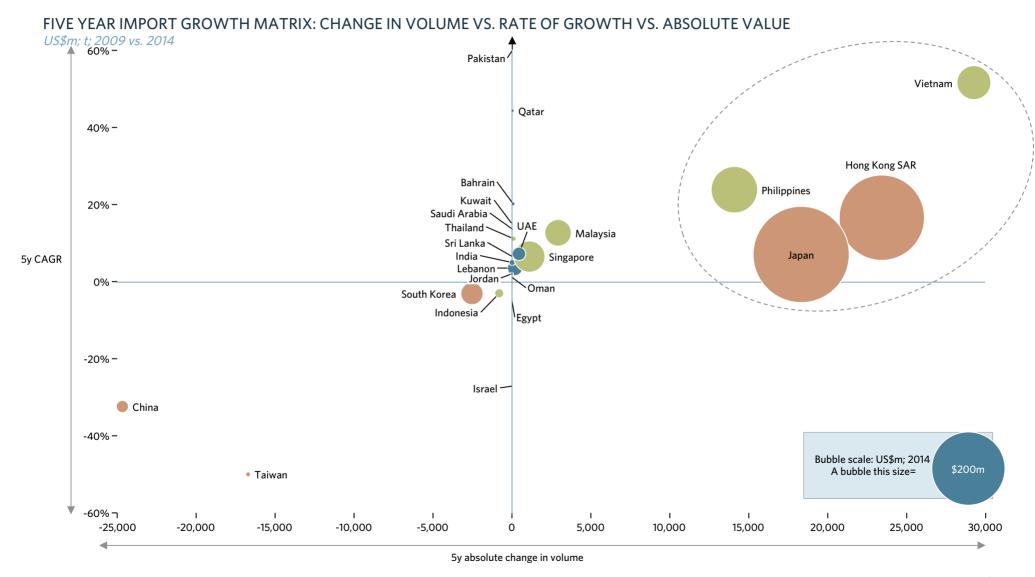
Growth in processed ham imports is coming from a few markets

IMPORT VALUE BY MARKET BY REGION

US\$m; FOB; 2004-2014

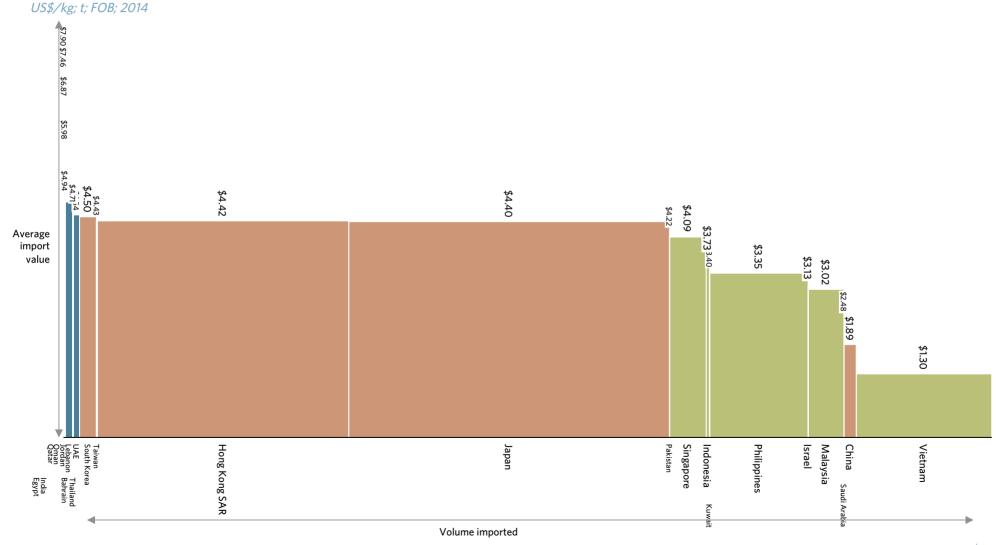


Four markets stand out for creating any meaningful growth in processed ham: Vietnam, Hong Kong, the Philippines and Japan

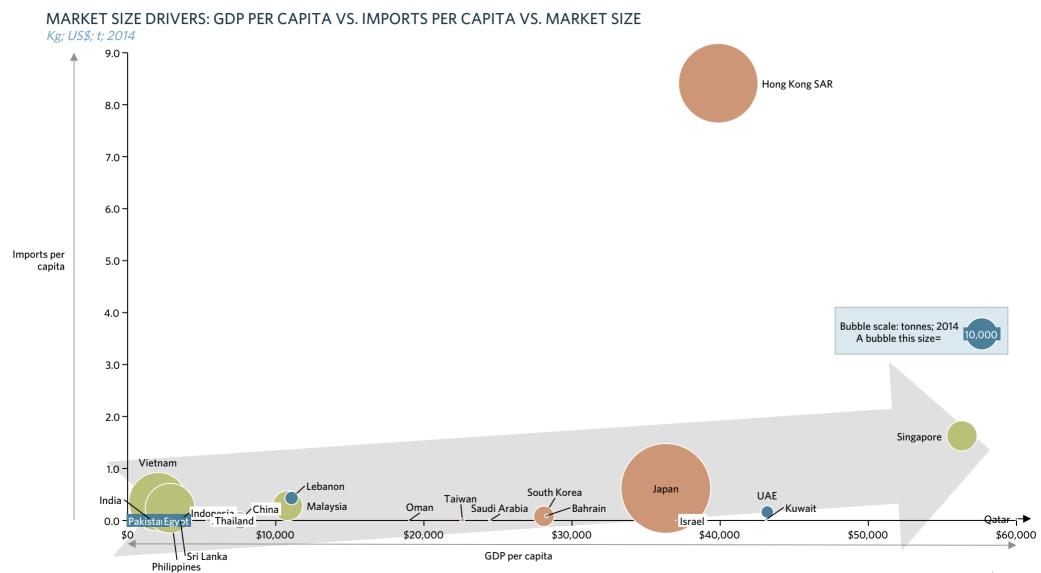


Average processed ham import prices varies by region: Hong Kong and Japan pay ~\$4.40/kg; SE Asia and China pay less; the Middle East takes tiny volumes at high prices (for expats)

AVERAGE IMPORT VALUE COST CURVE BY MARKET/REGION



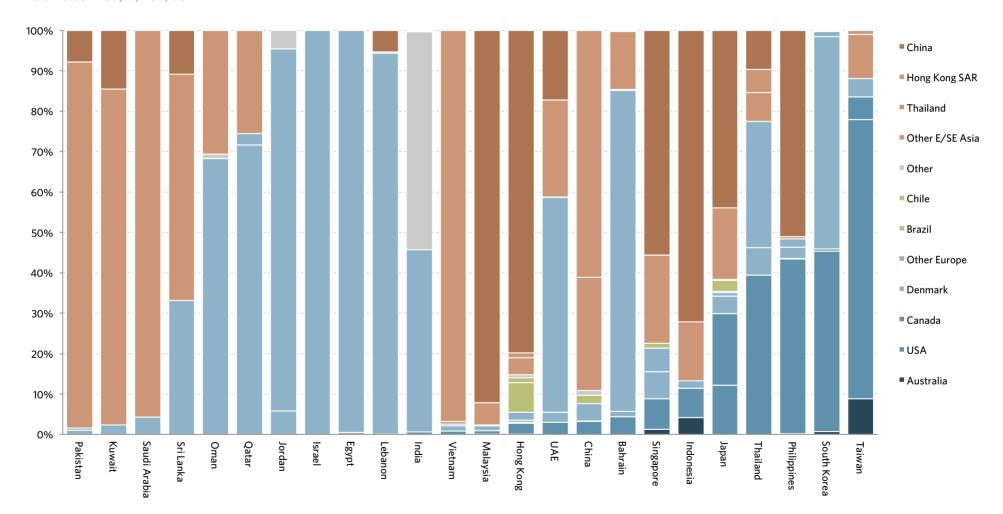
Imported processed ham consumption and aggregate imports appear almost unrelated to income per capita; Hong Kong is the only market that stands out



Market share varies by country; European countries stronger in Middle East; USA strong in East Asia; China strong in Hong Kong, Indonesia, Malaysia and Singapore

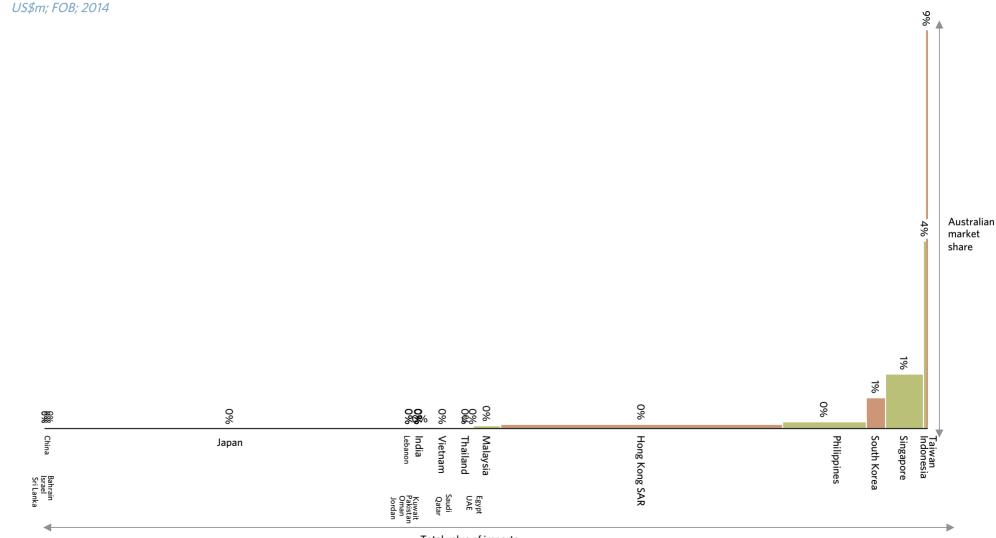
IMPORT VALUE MARKET SHARE BY MARKET BY KEY SUPPLIER

% of value in US\$m; FOB; 2014



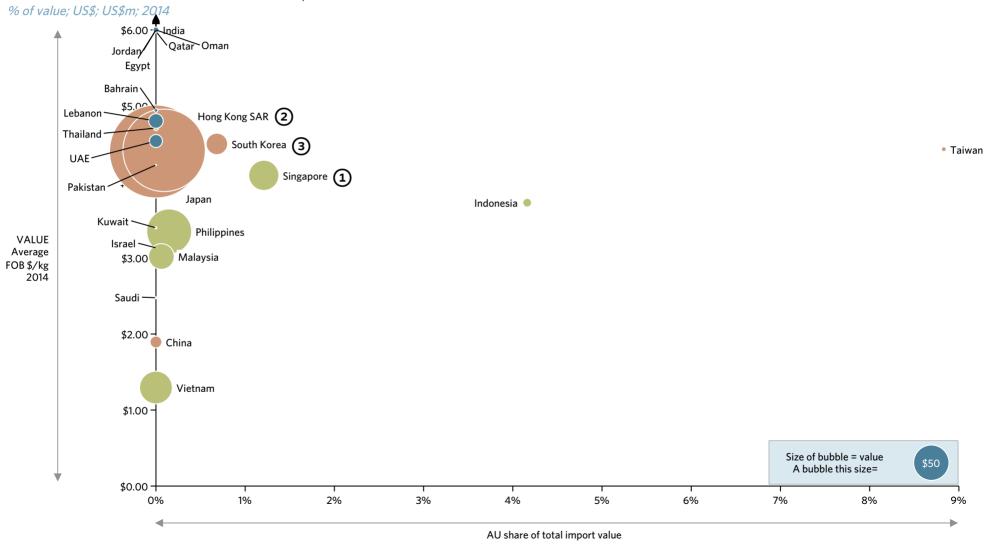
Western Australia has opportunities for processed ham export growth in select Asian markets; Taiwan and Singapore are highlighted as high potential market for Western Australia

AUSTRALIAN IMPORT VALUE MARKET VS. MARKET VALUE



Data supports new high value, premium processed ham opportunities being initially launched in (1) Singapore, (2) Hong Kong and (3) South Korea

WHERE TO FOCUS FOR NEW HIGH VALUE, PREMIUM PRODUCTS: AU SHARE VS. AVERAGE VALUE VS. MARKET SIZE



As a "Straw Man" for discussion, we identify an export market roll-out plan

PRELIMINARY "STRAW MAN" DEVELOPMENT & ROLLOUT PLAN FOR PROCESSED HAM OPPORTUNITY

Model; 2016

THOUGHT STARTER
"STRAW MAN" MODEL
FOR DISCUSSION

Product development and testing

1 Export market launch in Singapore

- Export market launch in Hong Kong
- ③
 Export market launch in South Korea

- High income, sophisticated market and consumers
- Manageable sized test bed
- AU already has some market position

DOCUMENT STRUCTURE

What is the strategic situation in the market?

In this environment, what is the opportunity for Western Australia?

Who are the potential in-market partners?

Who are the key firms in Western Australia capable of delivering?



Western Australia is well-positioned to grow processed ham exports to Asia

IS THE MARKET DEVELOPED & COMPETITIVE?

- The flow of processed ham from the farm through to the consumer is relatively straight forward and simple
- Processed ham prices are attractive in Asia, with a premium for imported products
- Asian markets have a much less developed processed ham range and offer than Western countries
- "Leading indicator" Western markets strongly suggest depth of processed ham range in Asian markets will increase
 going forward
- Processed ham appears to support a market structure of ~4-5 brands and private label; no clear regional or global leaders exist

WHAT IS WA CAPABLE OF DELIVERING?

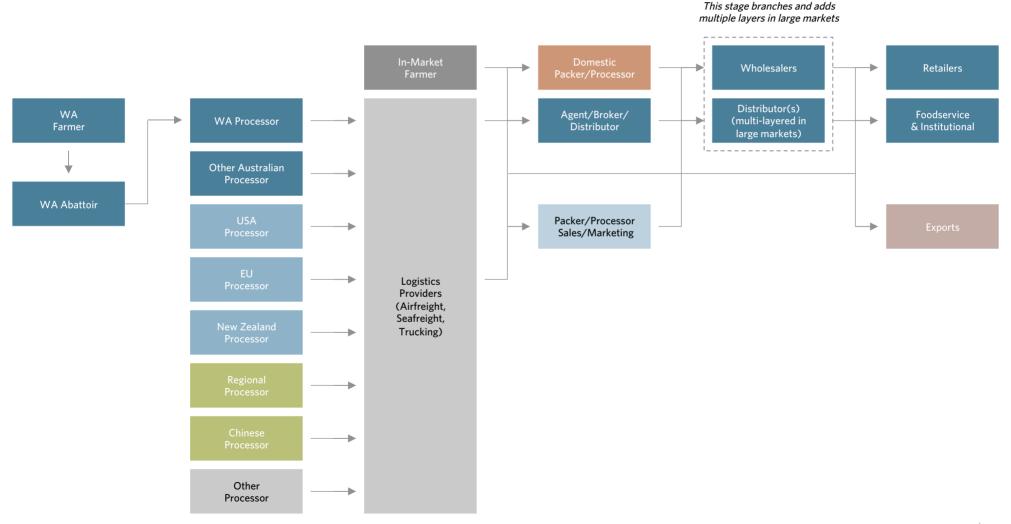
- A wide range of premium, value-adding product attributes emerged from our cross-country retailer survey
- Western Australian processed ham producers need to continue to move forward and improve through new products
- Multiple potential positions exist to develop a premium processed ham offer for Asia
- Products from other processors in other markets demonstrate what is possible in terms of developing a premium Western Australian processed ham offer
- There are a wide range of potential product positions or claims available for a premium processed ham product from Western Australia targeting Asia
- As a "Straw Man" for discussion, we identify an opportunity for a high value, premium processed ham product with select characteristics for export market launch

HOW IS THE MARKET STRUCTURED?

The flow of processed ham from the farm through to the consumer is relatively straight forward and simple

SIMPLIFIED MODEL OF SUPPLY CHAIN: PROCESSED HAM

Model; 2016



WHO IS THE COMPETITION? PRICING

Processed ham prices are attractive in Asia, with a premium for imported products

SHELF PRICE PER KG ACROSS SELECT SE ASIAN MARKETS AND AUSTRALIA: SELECT PROCESSED HAM PRODUCTS



WHAT IS ON THE SHELF? RANGE IN MARKET

Asian markets have a much less developed processed ham range and offer than Western countries

EXAMPLE: ACTUAL RETAIL PACKED PROCESSED HAM RANGE ON SHELF

Presence; actual; Feb 2016



California: GDP/Capita US\$59,562



Hong Kong: GDP/Capita US\$40,169

































































































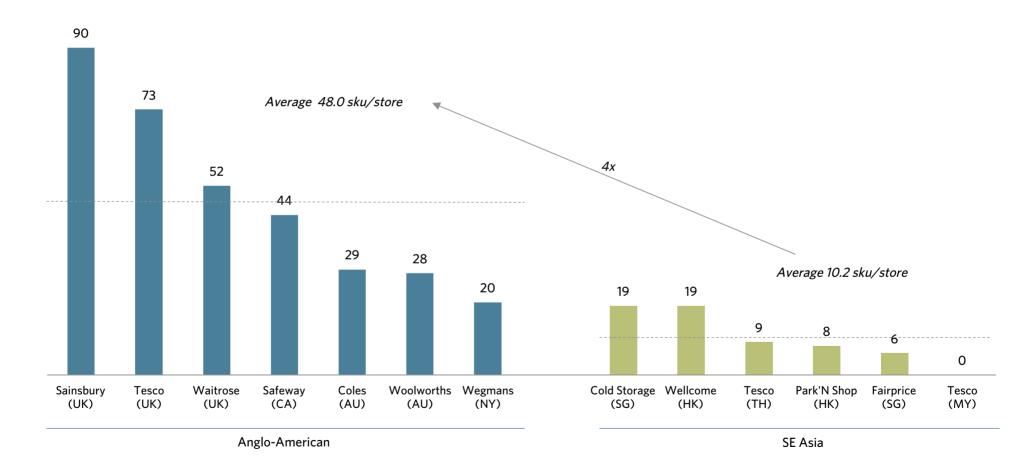


IS THE MARKET DEVELOPED & COMPETITIVE? RANGE

"Leading indicator" Western markets strongly suggest depth of processed ham range in Asian markets will increase going forward

NUMBER OF LINES ON SHELF: SELECT RETAILERS FROM ACROSS MULTIPLE MARKETS

SKU; actual; Feb 2016

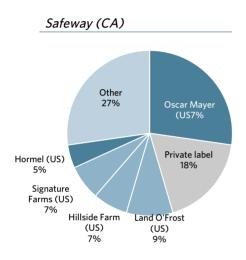


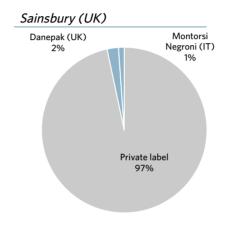
IS THE MARKET DEVELOPED & COMPETITIVE? SEGMENTATION

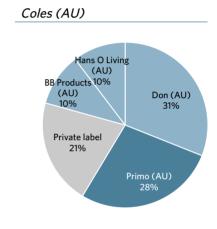
Processed ham appears to support a market structure of ~4-5 brands and private label; emerging regional leaders exist

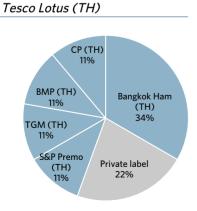
MARKET SHARE BY BRAND: SELECT RETAILERS FROM ACROSS MULTIPLE MARKETS

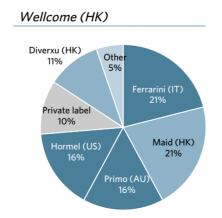
% of SKU; actual; Feb 2016

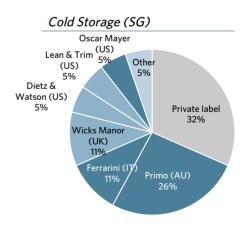








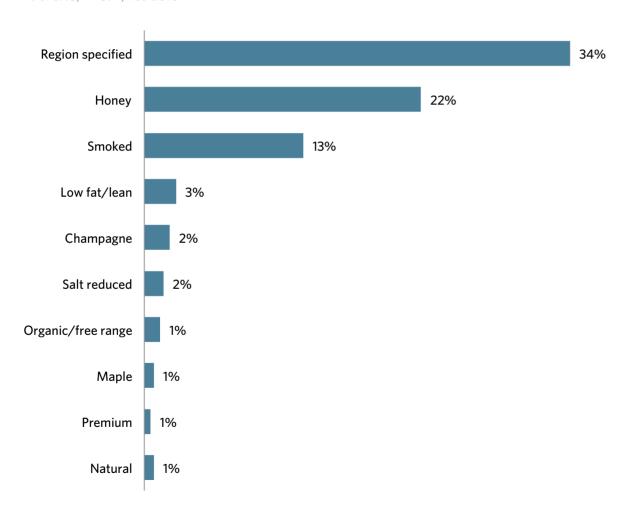




IS THE MARKET DEVELOPED & COMPETITIVE? PRODUCT ATTRIBUTES A wide range of premium, value-adding product attributes emerged from our cross-country retailer survey

PERCENT OF OBSERVED PRODUCTS ON SHELF MAKING THE CLAIM ON PACK

% of SKU; N=397; Feb 2016



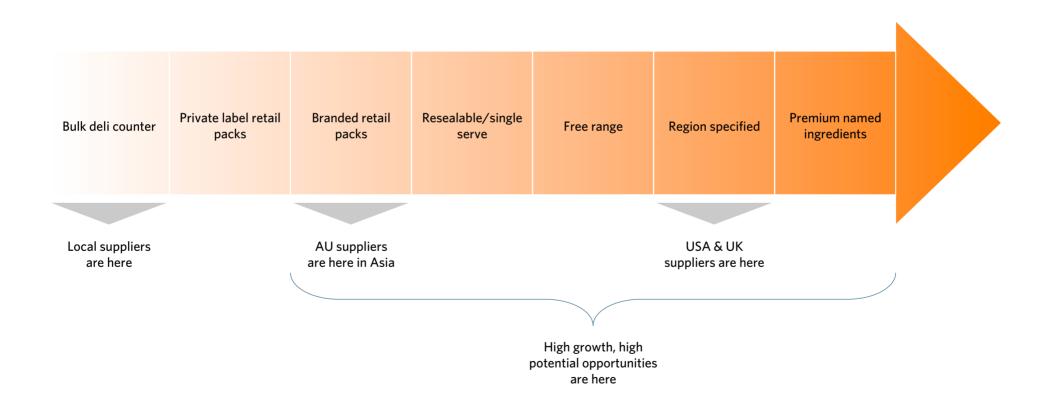
TAKFAWAYS

- This provide very clear instruction on what product attributes are succeeding the best across markets
- Western Australian processed ham manufacturers looking to grow value and share should focus in these areas
- Specifying region stands out, with ~1/3 observed product SKU having origin in name of the product
- Survey universe is all products in all listed retailers (across multiple countries)

WHAT IS WA CAPABLE OF DELIVERING? STRATEGIC DIRECTION

Western Australian processed ham producers need to continue to move forward and improve through new products

SUGGESTED STRATEGIC DIRECTION: WESTERN AUSTRALIAN PROCESSED HAM *Model; 2016*



WHAT IS WA CAPABLE OF DELIVERING? CLAIMS Multiple potential positions exist to develop a premium processed ham offer for Asia

IDENTIFIED POTENTIAL PREMIUM POSITIONS

Model; 2016









Source of protein

Reduced sodium

Low fat

Source of iron

Vitamins and minerals

Nitrate free

Organic

Identified source region

Specialty variety

Track & trace

Free range

RSPCA certified

Premium ingredients

Regional specialities

Unique WA flavours

Thick cut

Traditional methods

Lunchbox packs

Resealable packaging

Mixed meat packs

Variety of slicing

WHAT IS WA CAPABLE OF DELIVERING? GLOBAL PEERS

Products from other processors in other markets demonstrate what is possible in terms of developing a premium Western Australian processed ham offer

EXAMPLES OF PREMIUM PRODUCTS FROM OTHER MARKETS

Select; 2016









_					
9	1/4	რ 1	at	tre	96

Juice, tender pork

Heart tick

No artificial flavours

No added fillers

No artificial colours

Resealable container

Cooks' Ingredients

Smoked ham batons

Fragrant with beechwood

Fold into an omelette or pasta

Delicious with coleslaw & cheese

British/British Flag

British

Honey roast

Wiltshire cured ham

Taste tested by customers

"Taste the Difference"

British pork symbol

Serving suggestion

Ham 'n' cheese crackers

No artificial colours

No artificial flavours

Easy lunchbox option

Excellent source of protein

WHAT IS A POTENTIAL WA OFFER?

There are a wide range of potential product positions or claims available for a premium processed ham product from Western Australia targeting Asia

HYPOTHETICAL EXAMPLE OF POTENTIAL PREMIUM PRODUCT FROM WA

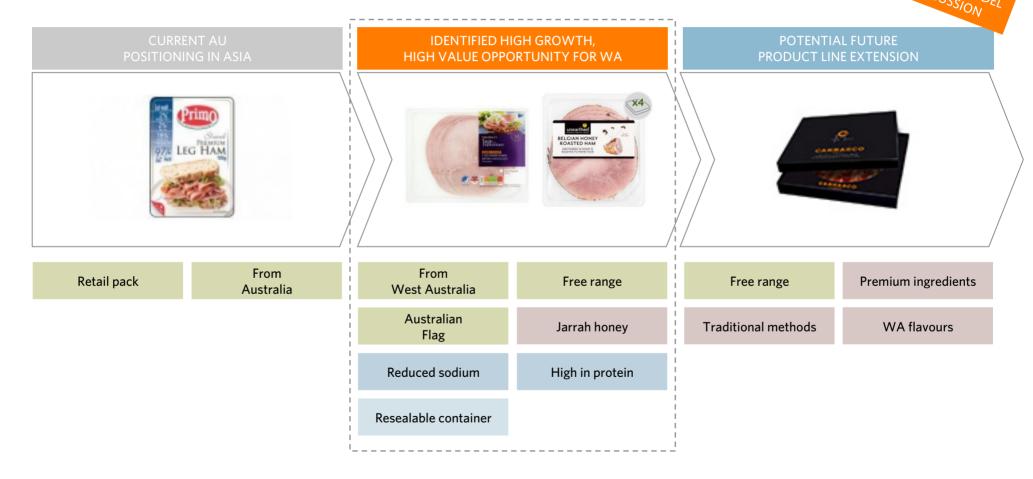
Model; 2016



WHAT IS THE IDENTIFIED OPPORTUNITY?

As a "Straw Man" for discussion, we identify an opportunity for a high value, premium processed ham product with select characteristics for export market launch

PRELIMINARY "STRAW MAN" DEVELOPMENT & ROLLOUT PLAN FOR PROCESSED HAM OPPORTUNITY Model; 2016



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FOCUS MARKET - 1 - SINGAPORE

Singapore has a robust and well-developed food retailing and foodservice sector

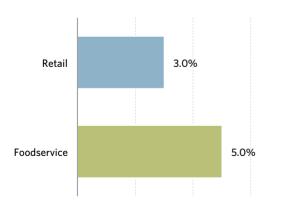
TURNOVER & PURCHASES

US\$b; 2014



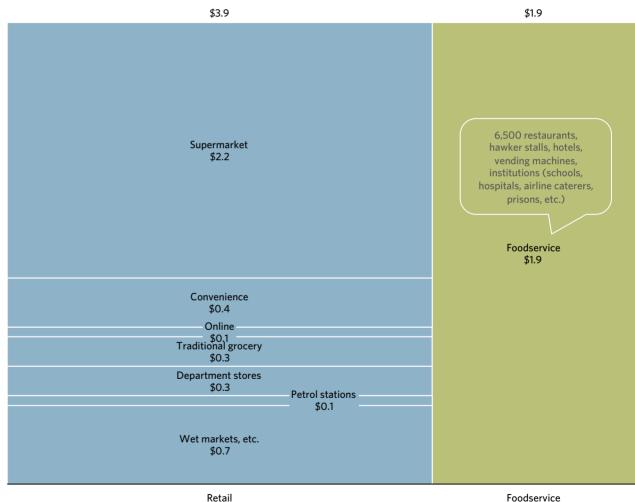
TURNOVER GROWTH RATE

% Y-O-Y; S\$; 2013v2014



ESTIMATED WHOLESALE FOOD & FMCG PURCHASES

US\$b; 2014



FOCUS MARKET - 1 - SINGAPORE

Four potential in-market partners are identified for Western Australian firms in Singapore

POTENTIAL IN-MARKET PARTNERS - SINGAPORE

2015 or as available

ntuc National Trades Union Congress	Dairy Form	SHENGSIONG V	百美超级市场 PRIME SUPERMARKET
NTUC Fairprice	Cold Storage	Sheng Siong	Prime Supermarkets
National Trade Union Council (Singapore)	Dairy Farm International (Hong Kong)	Listed; Singapore	Private; Singapore
www.fairprice.com.sg www.ntuc.org.sg	www.coldstorage.com.sg www.dairyfarmgroup.com	www.shengsiong.com.sg www.allforyou.sg	www.primesupermarket.com
US\$1.83b	US\$1.55b	US\$0.55b	US\$0.2b
Supermarket Hypermarket Convenience (Cheers; 139) Online	Supermarket (Cold Storage, Marketplace) Hypermarket Convenience (7-Eleven; 502) Online	Supermarkets Online	Supermarkets
285	848	38	19
FairPrice FairPricefinest FairPrice Xtra	Cold Storage The freeh food people MARKET PLACE Value Jasons Giant Cold Storage The freeh food people	SHENGSIONG _ all for year.	百美超级市场 PRIME SUPERMARKET Eurydiang Fresh Curyday Prime.
	National Trade Union Council (Singapore) www.fairprice.com.sg www.ntuc.org.sg US\$1.83b Supermarket Hypermarket Convenience (Cheers; 139) Online 285	NTUC Fairprice National Trade Union Council (Singapore) Www.fairprice.com.sg www.ntuc.org.sg US\$1.83b Supermarket Hypermarket Convenience (Cheers; 139) Online Supermarket Warketplace) Hypermarket Convenience (T-Eleven; 502) Online WWW.FairPrice FairPrice FairPrice WARKET PLACE WARKET PLACE WARKET PLACE	NTUC Fairprice National Trade Union Council (Singapore) National Trade Union Council (Hong Kong) Www.fairprice.com.sg www.coldstorage.com.sg www.ntuc.org.sg US\$1.83b US\$1.55b US\$0.55b Supermarket Hypermarket (Cold Storage, Marketplace) Hypermarket Convenience (Cheers; 139) Online 285 848 38 Cold Storage Sheng Siong Listed; Singapore Www.shengsiong.com.sg www.allforyou.sg Www.shengsiong.com.sg www.allforyou.sg Www.allforyou.sg US\$0.55b Supermarket (Cold Storage, Marketplace) Hypermarket Convenience (7-Eleven; 502) Online 285 848 38

FOCUS MARKET - 2 - HONG KONG

Hong Kong has a robust and well-developed food retailing and foodservice sector

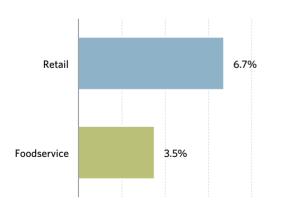
TURNOVER & PURCHASES

US\$b; 2014



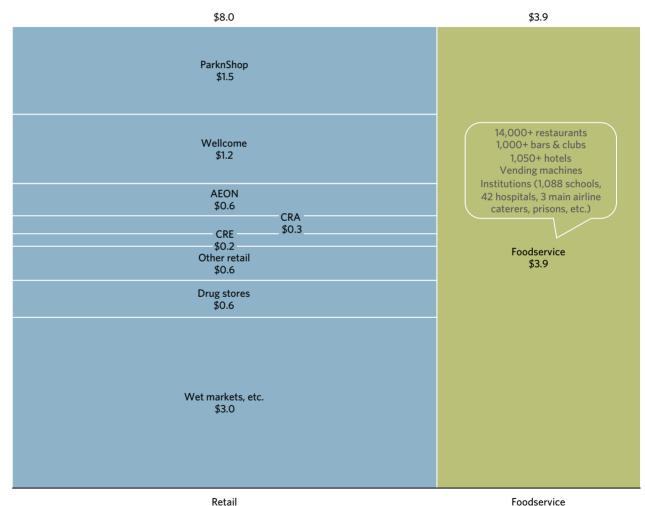
TURNOVER GROWTH RATE

% Y-O-Y; HK\$; 2013v2014



ESTIMATED WHOLESALE FOOD & FMCG PURCHASES

US\$b; 2014



FOCUS MARKET - 2 - HONG KONG

Seven potential in-market partners are identified for Western Australian firms in Hong Kong

POTENTIAL IN-MARKET PARTNERS - HONG KONG

2015 or as available

	Dairy Form	A.S. Watson Group	与您携手 改变生活		759阿信屋	ÆON	Conventence Retail Asia
Firm	Wellcome	Park'N Shop	CR Vanguard	Dah Chong Hong	759 Stores	AEON Stores	Convenience Retail Asia
Ownership	Dairy Farm International/Jardine Matheson	A.S. Watson/ Hutchison Whampoa	CRE/China Resources (SOE; China)	Dah Chong Hong/ CITIC Pacific/CITIC (SOE; China)	Private; Hong Kong (Lam Wai Chun)	AEON (Japan)	Fung Group
Website	www.wellcome.com.hk	www.parknshop.com	www.crvanguard.com.hk www.crc.com.cn	www.dch.com.hk	www.759store.com	www.aeonstores.com.hk www.aeon.info	www.circlek.hk/en www.cr-asia.com
Annual sales (in HK)	\$2.2b+	\$2.8b	-\$0.8b (food/FMCG)	N/A	N/A	\$0.8b	\$0.4b
Food store formats	Supermarkets 318 Convenience 921 Health & Beauty 369 Restaurants 676	Supermarkets 260+ Convenience	Supermarkets Convenience	Supermarkets	Grocery 247+	Dept. stores (w/food) 8 Supermarkets 5	Convenience 600+ Bakery
# of stores	Wellcome 280+ Marketplace 31 7-Eleven 900+ Olivers the Delicatessen ThreeSixty	ParknShop 175 PnS Superstore 50+ PnS Taste 10 PnS Fusion 14	CR Vanguard 100+ VanGo 79	DCH Food Mart 80+ DCH Food Mart Deluxe	759 Stores 247+	AEON 13	Circle K Saint Honore Cake
Store fascia	惠康 wellcome (-ELEVEN	PARKISHOP	VnGO 便利店	大昌食品市場 DCH FOOD MART 大昌食品専門店 DCH FOOD MART でduse	759阿信屋	ÆON	



FOCUS MARKET - 3 - SOUTH KOREA

South Korea has a robust and well-developed food retailing and foodservice sector

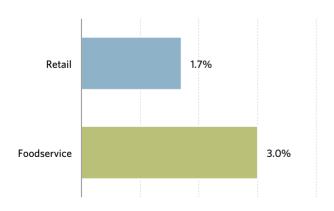
TURNOVER & PURCHASES

US\$b; 2014



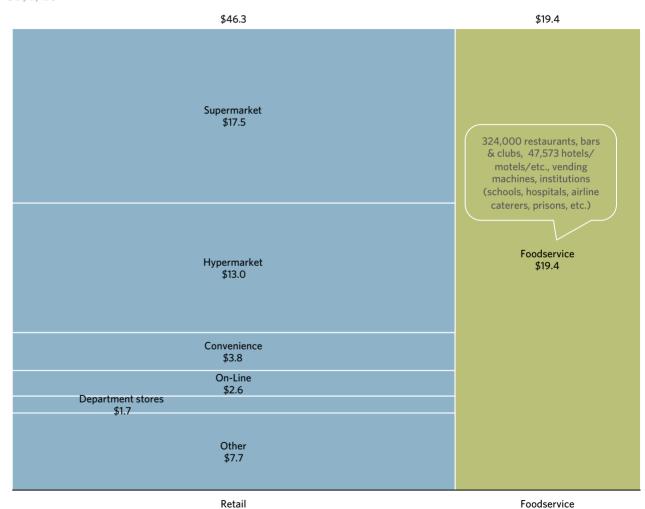
TURNOVER GROWTH RATE

% Y-O-Y; KRW; 2013v2014



ESTIMATED WHOLESALE FOOD & FMCG PURCHASES

US\$b; 2014



FOCUS MARKET - 3 - SOUTH KOREA

Six potential in-market partners are identified for Western Australian firms in South Korea

POTENTIAL IN-MARKET PARTNERS - SOUTH KOREA

2015 or as available

	SHINSEGAE	Home plus	LOTTE	GS GS	THE E-LAND GROUP	BGF retail
Firm	E-Mart	Homeplus Co.	Lotte Shopping Co.	GS Retail Co.	E. Land Retail	BGF Korea
Ownership	Shinsegae	Private Equity (MBK Partners, Canadian Pension Fund, Temasek (SG)	Lotte Group (Korea)	GS Holdings (Korea; listed)	E Land Group (Korea; listed)	BGF (Korea; listed)
Website	www.shinsegae.com emart.ssg.com	www.homeplus.co.kr	www.lottemart.com www.lottesuper.co.kr www.7-eleven.co.kr	www.gsretail.com www.gsholdings.com	www.newcore.co.kr www.eland.com	www.bgfretail.com
Annual sales (retail)	US\$15.2b	US\$10.6b	US\$18.2b	US\$5.1b	US\$2.3b	US\$2.6b
Store formats	Hypermarket Supermarkets Department stores	Hypermarket Supermarket	Hypermarket Supermarket Department stores Convenience stores	Supermarket Convenience Petrol stations	Hypermarket 19 Department stores Clothing stores Restaurants	Convenience 7,939
# of stores	E Mart 148 E Mart Everyday 132 Shinsegae	Home Plus 139 Home Plus Express 286	Lotte Mart 108 Lotte Super Market 496 7-Eleven 7,213	GS Supermarket 254 GS25 7,774 GS Caltex	New Core 19 Kim's Club NewCore Outlet, 2001 Outlet DongA Department Store	CU 8,000+
Store fascia (select)	emart	Home plus	LOTTE Mart	GS Supermarket	NEWCORE	C@U
	SHINSEGAE	Home plus express	LOTTE Super LOTTE DEPARTMENT STORE LOTTE Homeshopping	GS 25 GS Caltex	KIM'S CLUB	
			7-ELEVEN			

DOCUMENT STRUCTURE

What is the strategic situation in the market?

In this environment, what is the opportunity for Western Australia?

Who are the potential in-market partners?

Who are the key firms in Western Australia capable of delivering?



IDENTIFIED WA COMPANIES

DEL BASSO SMALLGOODS		D'ORSOGNA	D'ORSOGNA Since 1940	MONDO DORO	Mondo doro
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PHONE: 08 9444 0811		PHONE: 08 6313 6990		PHONE: 08 9314 5445	
WEBSITE: www.delbasso.com.au		WEBSITE: www.dorsogna.cor	n.au	WEBSITE: www.mondodo	ro.com.au

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Coriolis is the leading Australasian management consulting firm specialising in the wider food value chain. We work on projects in agriculture, food and beverages, consumer packaged goods, retailing & foodservice. In other words, things you put in your mouth and places that sell them.

WHERE WE WORK

We focus on the Asia Pacific region, but look at problems with a global point-of-view. We have strong understanding of, and experience in, markets and systems in Australia, China, Japan, Malaysia, New Zealand, Singapore, South Korea, Thailand, the United Kingdom and the U.S. We regularly conduct international market evaluations and benchmarking.

WHAT WE DO

We help our clients assemble the facts needed to guide their big decisions. We develop practical, fact-based insights grounded in the real world that guide our clients decisions and actions. We make practical recommendations. We work with clients to make change happen. We assume leadership positions to implement change as necessary.

HOW WE DO IT

All of our team have worked across one-or-more parts of the wider food value chain, from farm-to-plate. As a result, our recommendations are grounded in the real world. Our style is practical and down-to-earth. We try to put ourselves in our clients' shoes and focus on actions. We listen hard, but we are suspicious of the consensus. We provide an external, objective perspective. We are happy to link our fees to results.

WHO WE WORK WITH

We only work with a select group of clients we trust. We build long term relationships with our clients and more than 80% of our work comes from existing clients. Our clients trust our experience, advice and integrity.

Coriolis advises clients on growth strategy, mergers and acquisitions, operational improvement and organisational change. Typical assignments for clients include...

FIRM STRATEGY & OPERATIONS

We help clients develop their own strategy for growing sales and profits. We have a strong bias towards growth driven by new products, new channels and new markets.

MARKET ENTRY

We help clients identify which countries are the most attractive – from a consumer, a competition and a channel point-of-view. Following this we assist in developing a plan for market entry and growth.

VALUE CREATION

We help clients create value through revenue growth and cost reduction.

TARGET IDENTIFICATION

We help clients identify high potential acquisition targets by profiling industries, screening companies and devising a plan to approach targets.

DUE DILIGENCE

We help organisations make better decisions by performing consumer and market-focused due diligence and assessing performance improvement opportunities.

EXPERT WITNESS

We provide expert witness support to clients in legal cases and insurance claims. We assist with applications under competition/fair trade laws and regulations.

