

Reshaping the industry in turbulent times



### Content



- 1. Long term global animal protein outlook
- 2. The changing world: Asia as driving force
- 3. Long term strategic outlook

### Rabobank: A leading global F&A bank



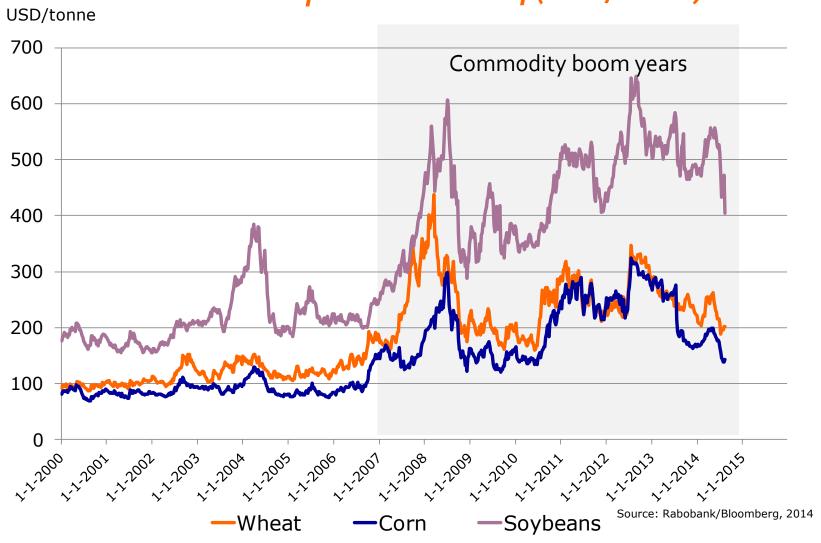
Rabobank group global presence





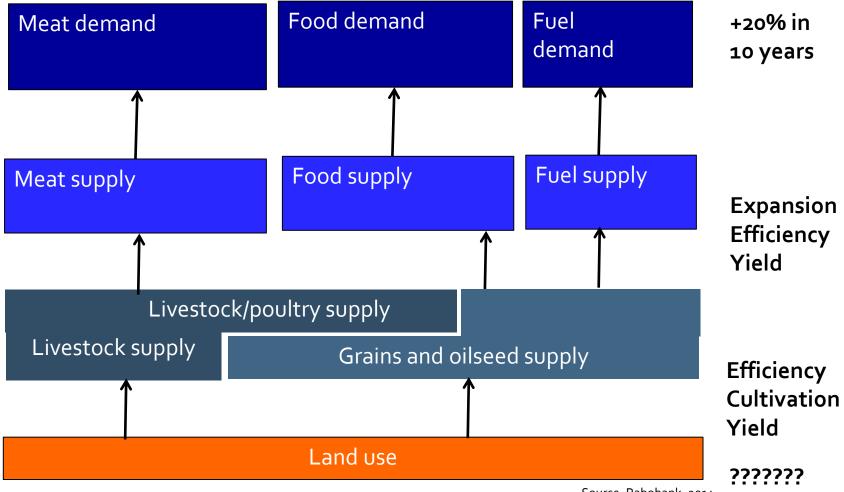
## Grains and oilseed prices: A reflection of the new market reality Rabobank

Grains and oilseed prices 2000-2014 (USD/tonne)



# Why? Global food supply challenge: A bumpy road

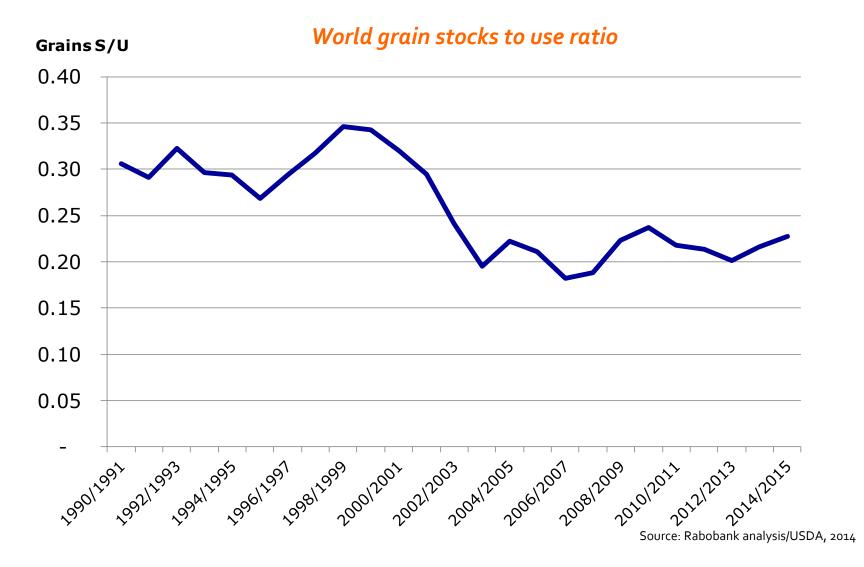




Source: Rabobank, 2014

## Stocks dwindling as supply fails to keep up with demand

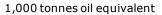


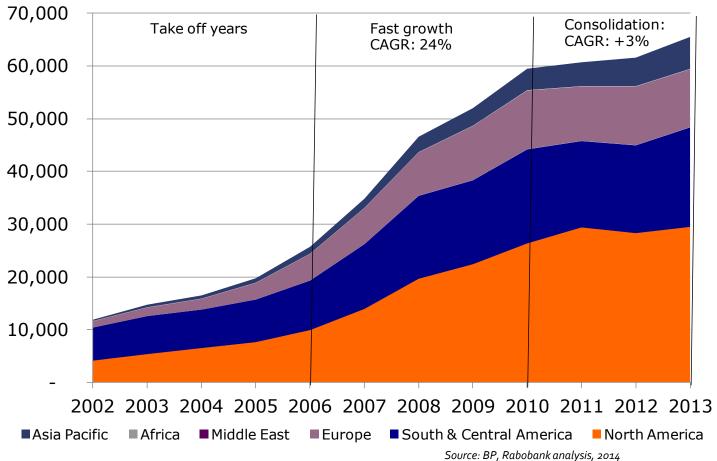


### Biofuels at turning point



#### Global demand for biofuels





## Biofuels have a big footprint in global grains and oilseeds markets



#### **Ethanol:**

12% of global corn supply(16% of sugar cane supply)



#### **Animal protein**

- Direct market impact
- By-product DDGS

#### **Biodiesel:**

17% of global soy oil supply10% of global palm oil supply25% of global rapeseed oil supply1% of global sunflower oil supply

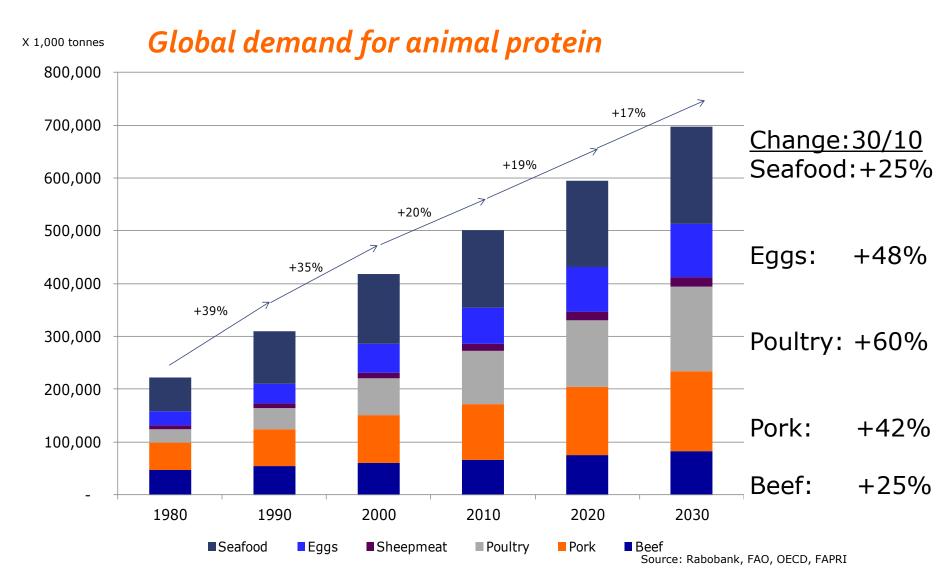


#### **Animal protein**

- Indirect market impact
- By-product Meals

### Fast growth in animal protein: 45% more in 2030

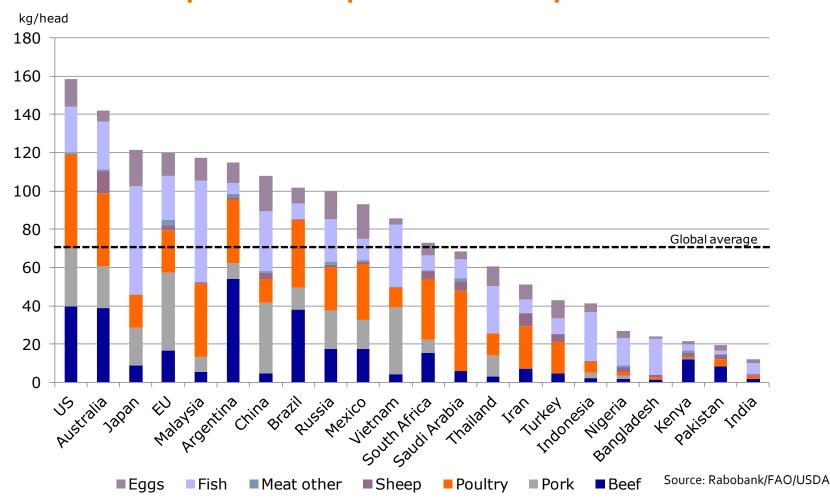




## Income growth leads to higher animal protein consumption



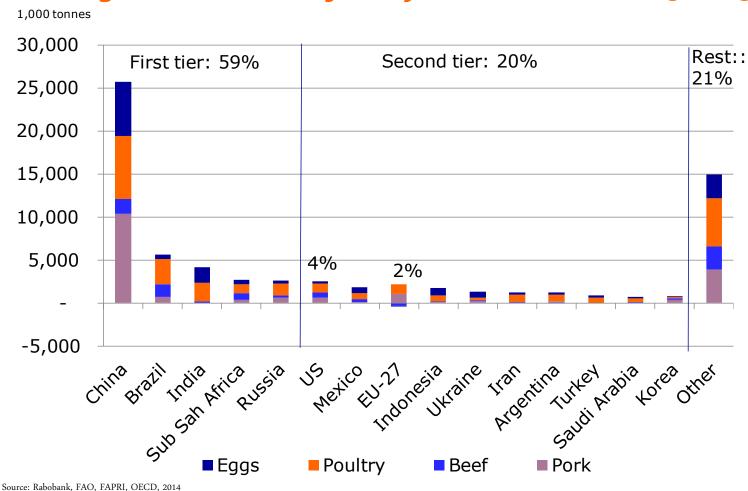
#### Per capita animal protein consumption in 2010



## 65% of global meat and egg demand growth is in Asia



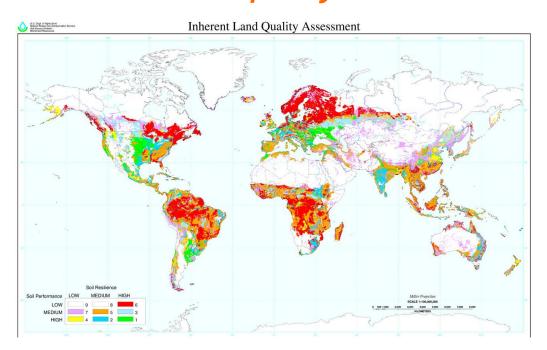
#### Market growth estimate for key meat markets 2013-2023



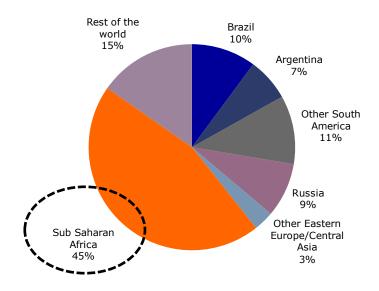
### Asia lacks adequate resources, Africa has plentiful



#### Global land quality assessment



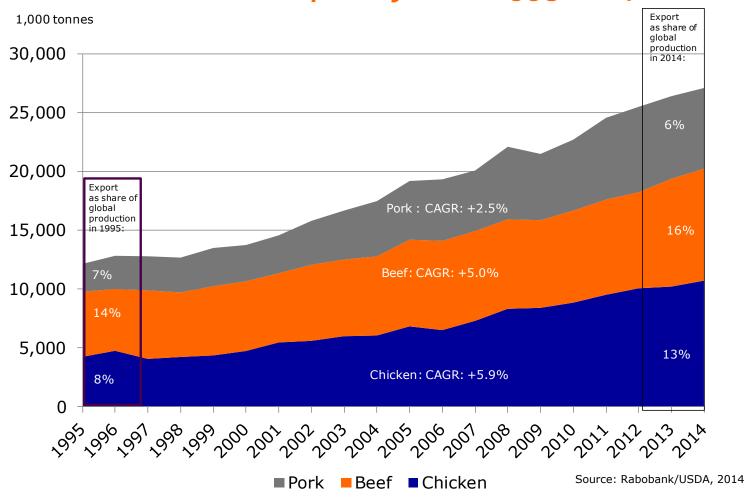
#### Available agricultural land



### More global trade



Global meat and poultry trade 1995-2014\*



### Content

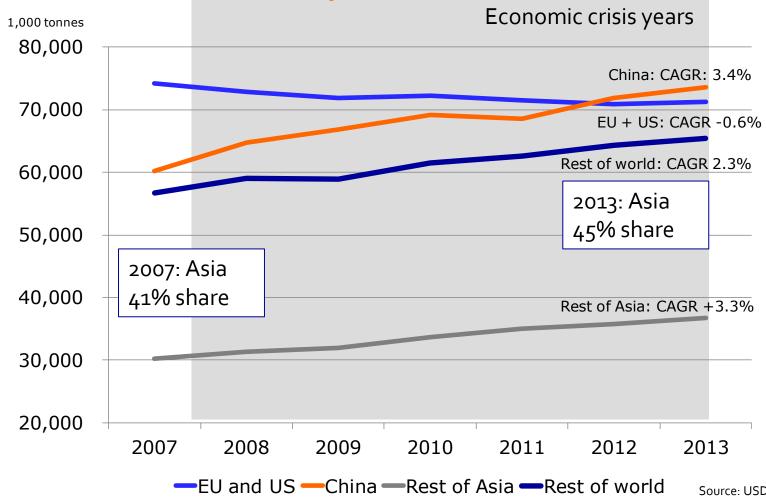


- 1. Long term global animal protein outlook
- 2. The changing world: Asia as driving force
- 3. Long term strategic outlook

## Global change: growth in emerging markets, decline in the West

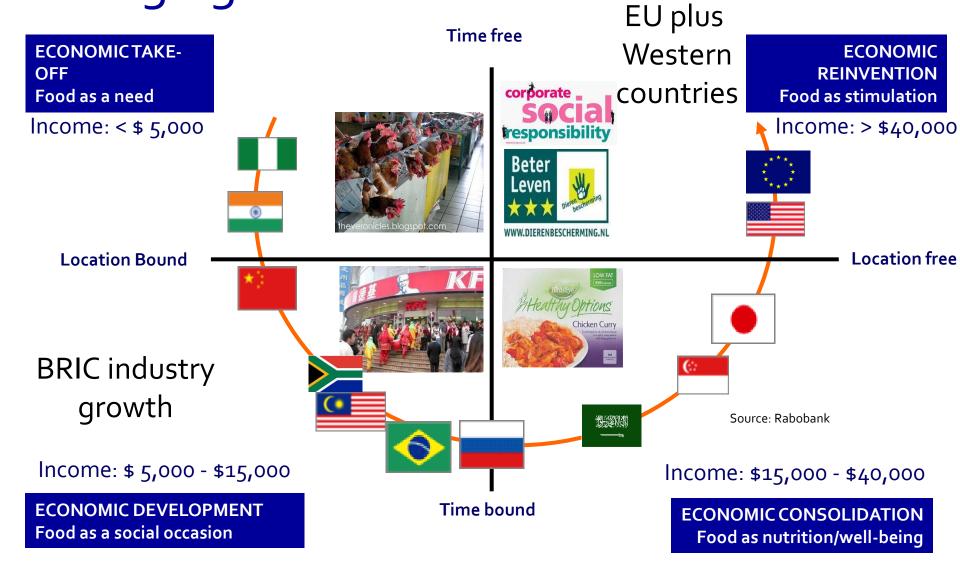


Global meat consumption 2005-2013: CAGR +2.1%



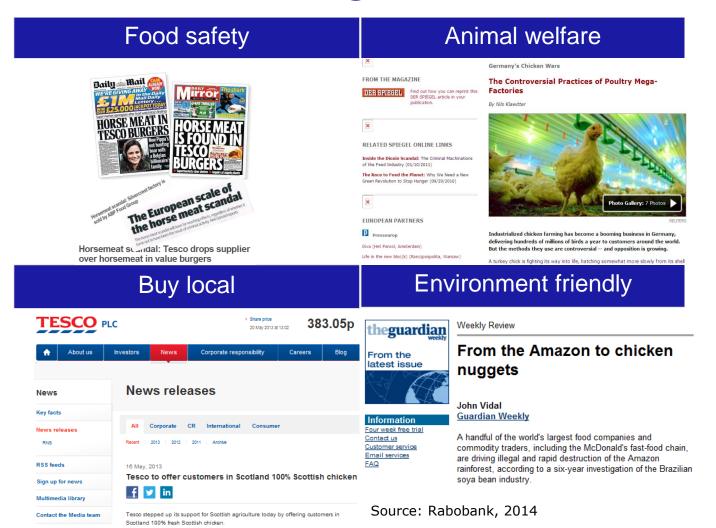
## Different dynamics in industry in emerging and Western markets





## Western markets: consumer concerns to change industries

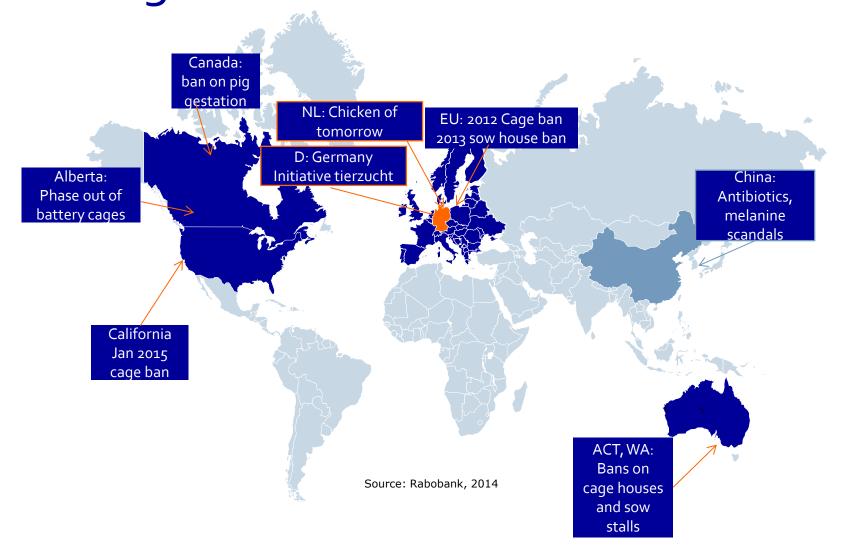




The commitment will see the retailer offer Scottish-regred chicken in each of its renges

## Consumer concerns to drive global change in business models

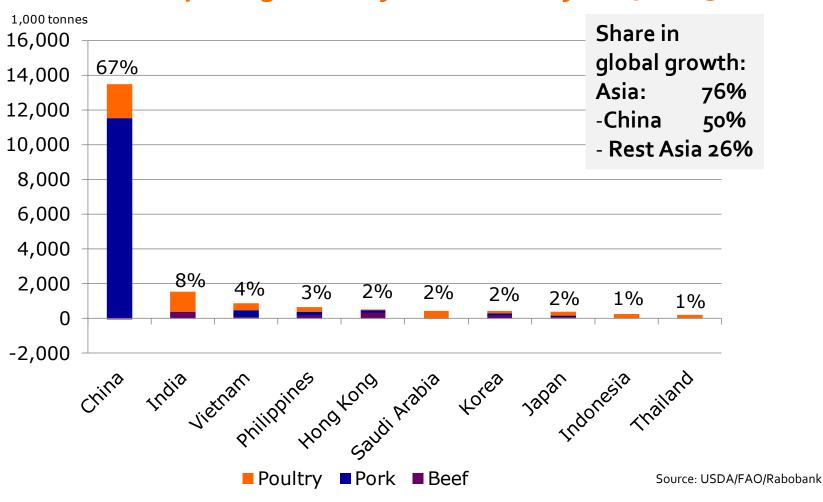




## Asia drives global growth: 67% of growth is in China



#### Consumption growth by BRIC country 2007-2013



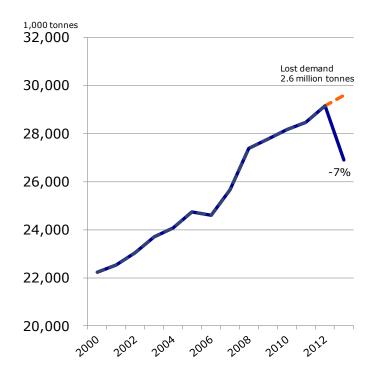
### China as emerging market example of increasing consumer concerns



#### China chicken consumption China egg consumption

#### 1,000 tonnes 15,000 14,000 Lost demand 3 million tonnes 13,000 12,000 11,000 10,000 9,000 8,000

Source: Rabobank/USDA, 2014



Source: Rabobank/USDA, 2014

#### **Antibiotics** scandal



outbreaks



QSR food scandal

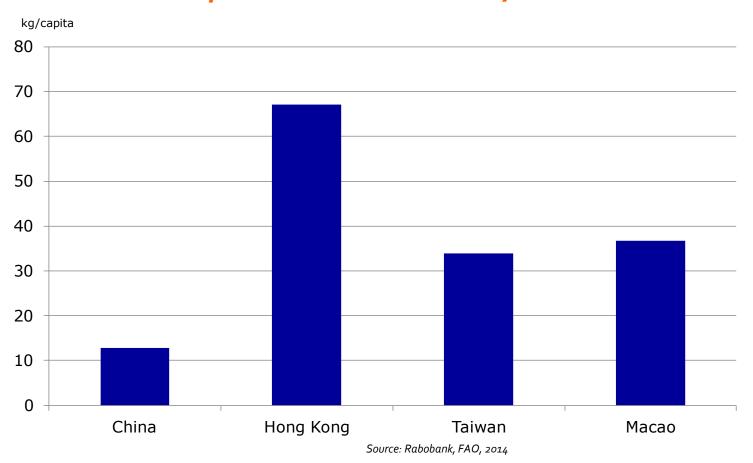
audits after food safety scandal



### Will China recover? Yes, and growth will be fast



#### Chicken consumption China versus HK, Taiwan and Macao

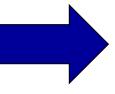


### Only one solution: Modernization of the industry





Higher incomes



Modern value chain



Vertical integration



Yield

Value chain management

Sustainability







Modern distribution

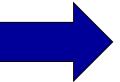




Animal disease threat



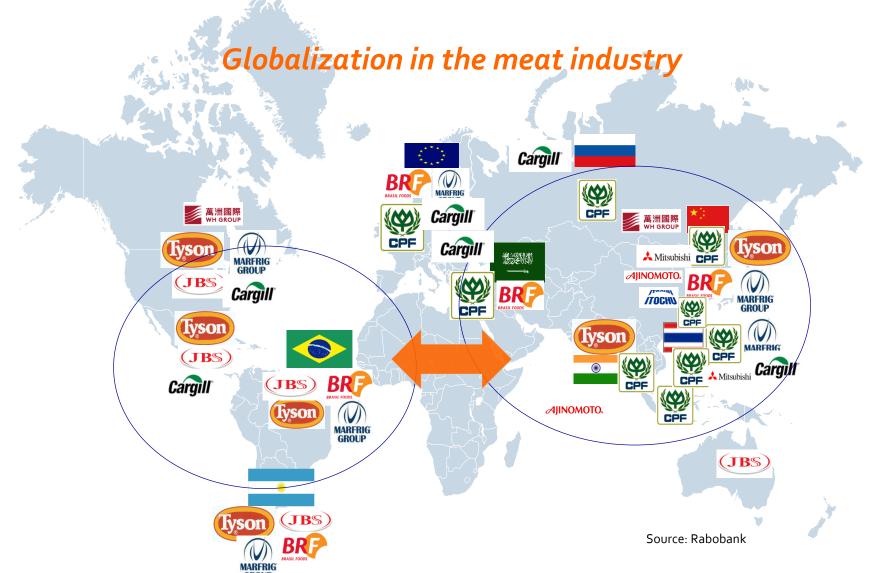
High feed prices



Source: Rabobank

### Setting up global supply chains





### Strategic global food security will change industries



Rabobank

#### Chinese firm announces joint venture in Ukraine

By Vladislav Vorotnikov 3, 01-Oct-2013

Related topics: Industry & Markets, Livestock, Financial, Pork, China

Chinese company Xinjiang Production and Construction Corps (XPCC) has entered into a joint venture with Ukrainian firm KSG Agro to ge-scale project for the production of pork and feed

USD 2.6 billion investment

clude the construction of several will have a total production

90Romania and China keen to develop • elivestock cooperation



Related tags: Daniel Constantin, Han Changfu, MARD, Ministry of Agriculture and Rural Development, Romania, China, Livestock, Victor Ponta, Li Kegiang

Related topics: Industry & Markets, Livestock, Beef, Pork, Lamb, Others, China

Senior government officials from China and Romania have agreed that livestock is a priority area for cooperation between the two countries

Earlier this month, Chinese Minister of Agriculture Han Changfu, met with Daniel Constantin, Romania's Deputy Prime Minister and Minister of Agriculture and Rural Development, as part of an official visit to the country

Romania to export sheepmeat to China

The Smithfield, Shuanghui Pork Deal Is Done

E-mail 66 0 Comments - Be The First! A Print

**By LEONEDA INGE** 

Pork processor Smithfield Foods has officially been sold. It is reportedly the largest purchase ever of a US company by a Chinese company.

Today 96% of Smithfield Foods shareholders voted to sell the pork processor to Shuanghui International Holdings Ltd. of Hong Kong. The deal is worth \$7.1 billion.

Smithfield, headquartered in Virginia, owns the largest hog processing plant in

USD 7.1 billion investment

The Telegraph Have Name World Agest Steamen Comment Culture Travel Life Warmen Tackien Europe Middle East Australians Africa Nelson Mandels

China 'to rent five per cent of Ukraine'

MORE - NEWS - WORLDWENT - AREA - CHICA.

Ukraine has agreed a deal with a Chinese firm to lease five per cent of its land to feed China's burgeoning and increasingly demanding population, it has been reported.

Distraine is rich injarable land #www.state

By Alex Spillius, Diplomatic Correspondent 1:19PM BST 24 Sen 2019 It would be the biggest so called "and grab" agreement, where one country lesses or sells and to another, in a trend that has been compared to the 19th century "acramble for

Africa", but which could now agreed to the visat and fertile plains of eastern Europe

Print this article Share 307 Facebook 0

Tiviser 307

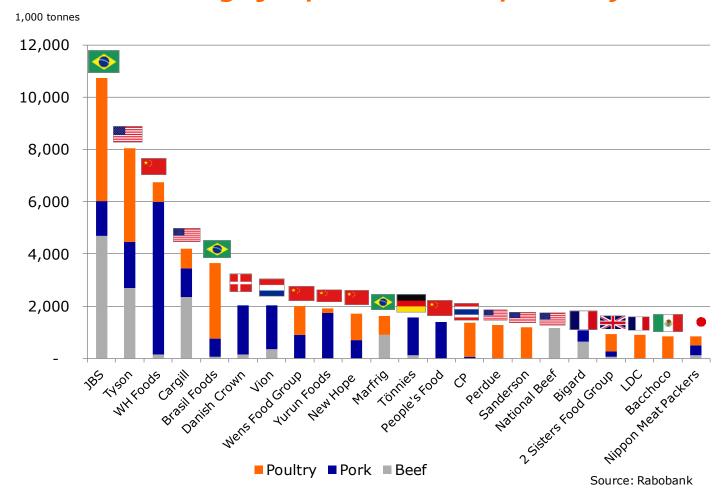
### Content



- 1. Long term global animal protein outlook
- 2. The changing world: Asia and Africa as drivers
- 3. Long term strategic outlook

## Companies from emerging markets drive industry globalisation

Global ranking of top 20 meat companies by volume



## Towards the Asian and African decades in poultry development



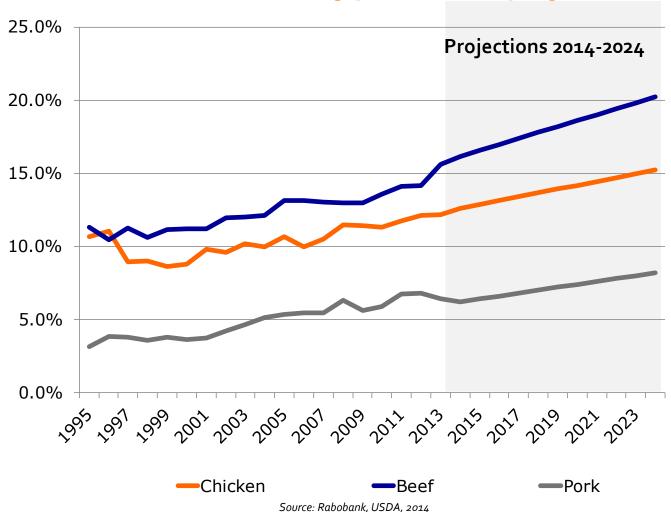
Global investments in the poultry industry Global investments 1980 2030 1990 2000 2010 2020

Source: Rabobank, 2014

### Importance of trade will grow fast



#### Global trade as share of production projections



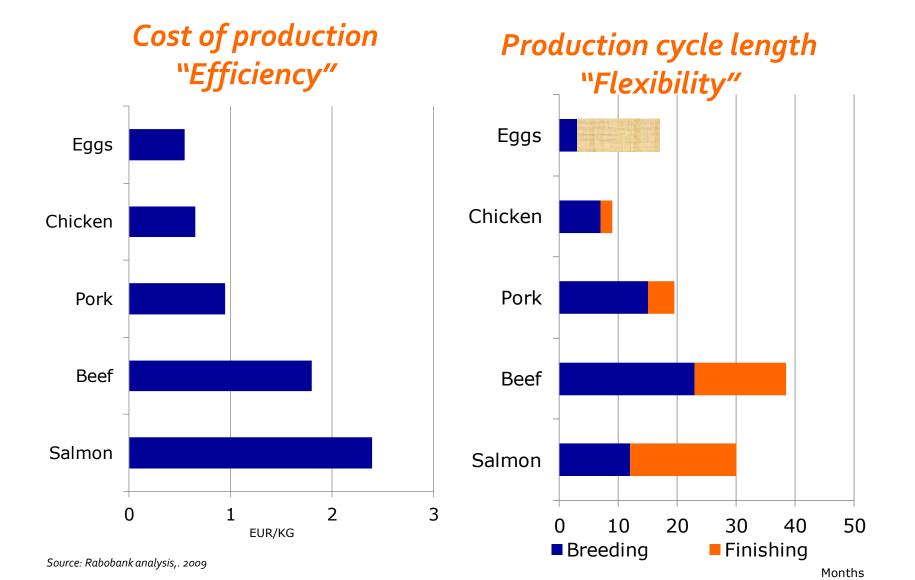
# Optimal efficiency more important as ever before



	rains & Feed	Breeding	Farming		Processing		Customer	
	Compound feed price (EUR/100 kg)	DOC Price (EUR/100 kg)	FCR	Live weight	Wages EUR/hr	Processin g costs	Total cost whole chicken	
Poland	34⋅5	31.1	1.76	2.3	5	25	154	
Germany	34.5	31.1	1.68	2.2	15	31	164	
France	32.8	32.8	1.75	1.9	20	35	170	
Italy	40.1	35.5	1.85	2.5	13	30	182	
US	25.7	19.6	1.93	2.5	17	32	133	
Brazil	26.5	27.0	1.80	2.1	3	22	119	
Russia	33.9	32.3	1.81	2.5	2	22	153	
Thailand	32.9	28.0	1.75	2.3	2	22	128	
Horizontal efficiency Vertical efficiency	- Efficient feed production - Access to cheap grains	p grains egg production		-Modernisation level farms - Size farms - Skills farmers - Contract pricing model e chain supply management Pricing Communication		sation level eed se plant		

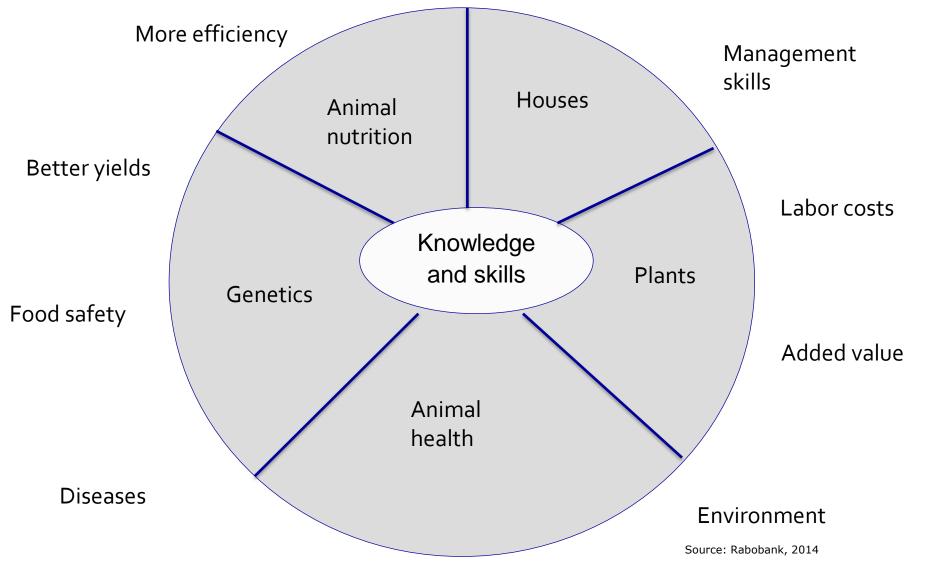
<sup>•</sup> Source: Raboabnk analysis based on LEI data

### Chicken and eggs perfectly positioned as cheapest and most flexible proteins



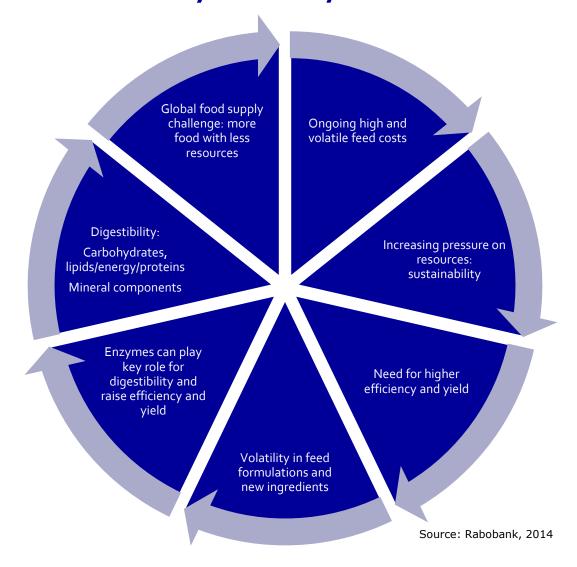
### Meeting future supply: A multi disciplinary challenge





## Ongoing high and volatile feed costs. Efficiency and yield as KSFs







Questions?
nan-dirk.mulder@rabobank.com



