# 7<sup>TH</sup> ANNUAL \*\*Mitech® GLOBAL FEED SURVEY | 2018

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# Most Comprehensive Survey

- ❖144 countries
- Over 30,000 mills being visited by Alltech salespeopl
- ❖7<sup>th</sup> Alltech Global Feed Survey



\* Alltech's global presence makes it the best placed organization to collect & analyze this data.

# What is the purpose of the survey?

- Demonstrates the strength & global presence of the feed industry.
- Useful to
  - Policy makers
    Institutions, investors
    Industry organizations (IFIF)
    NGOs & United Nations
- Agricultural advocacy support (#agvocates).

#### World Feed Production Exceeds



# 1.07 Billion Metric Tons 2.57%

7<sup>™</sup> ANNUAL **Altech\* GLOBAL FEED SURVEY** | 2018

#### Africa — Still on the fast track Africa Species Growth 30% up in the last 5 yrs Pig 6% (compared to global growth 13%) Pets 9% Layer 11% Species slightly down: Beef & aquaculture Horses • Species Up: 10% Dairy Pig, Dairy, Layer, Broiler, Pets & Horses Broiler 10%

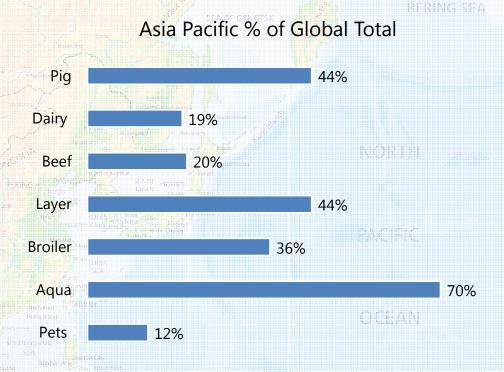
8%

10%

12%

# Asia-Pacific — The primary producer

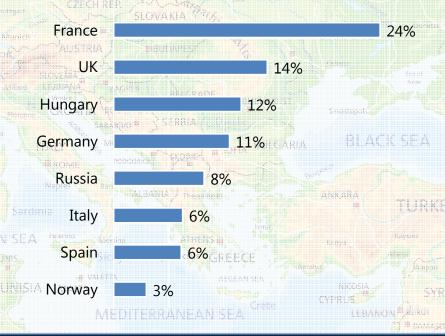
- 35.6% of global feed production
- Region grew by 3%
  - Primarily pigs, pets & equine
  - Thailand (8%) & India (7%)
- 70% of global aqua feed production



# Europe — A growing leader

- 3% growth
  - Pig, broiler & aqua
- No.1 for pet food
- Over 1/3 of global total
  - Hungary's pet food production is 30% of its total production!





# Latin America — Brazil is the meat

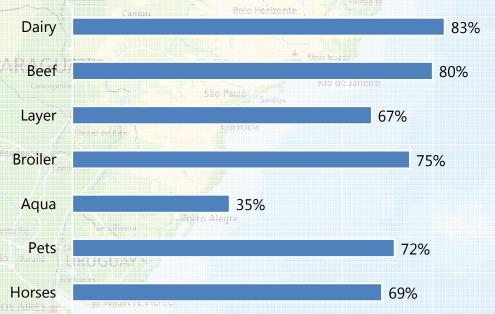
Brazil regional leader (3<sup>rd</sup> globally)

Over 43% regional total

Mexico leads in beef & layer

 Top 3: Brazil, Mexico & Argentina now account for almost 75% of the region's feed production

## Brazil, Mexico & Argentina V. Regional Total



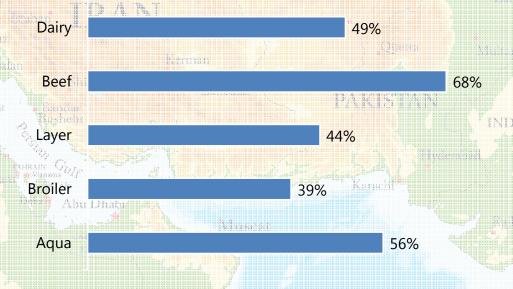


Region down 1% from 2016

Aqua, pets & horses grew

- Iran No.1 in most species
  - except Horses (UAE) & Pets (Israel)





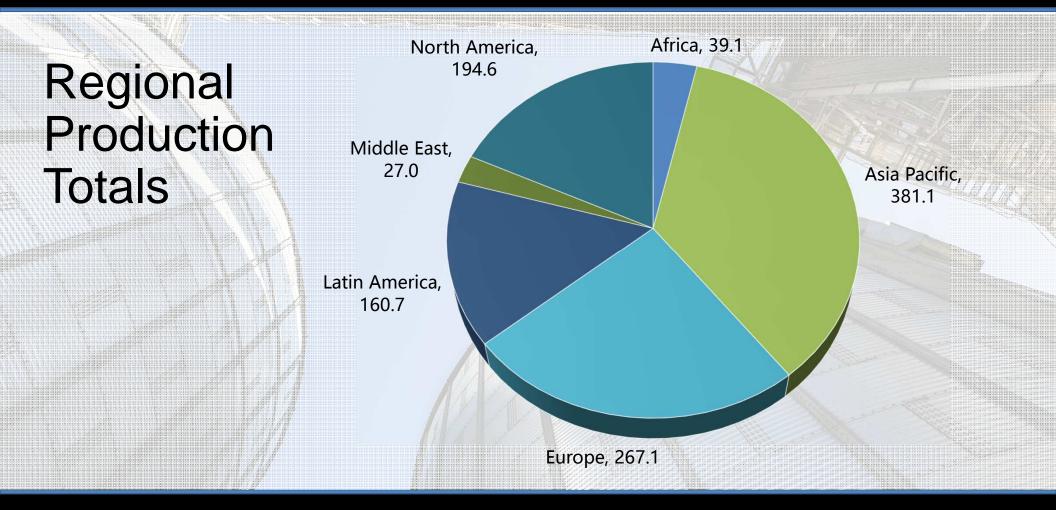
# North America — Steady as can be

- Region with highest horse feed production
  - U.S. No.1 & Canada No.3 globally or 46% of total.
- Top beef
  - U.S. produces 1/3 global beef feed
- 2<sup>nd</sup> highest in global pet food production (31.5%)

# Regional Growth - Five Year Analysis (MT)

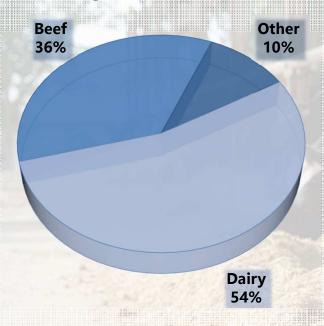
	2017	2012	% Change
Africa	39.1	30.3	29%
Asia-Pacific	381.1	356.5	7%
Europe	267.1	208.4	28%
Latin America	160.7	137.0	17%
Middle East	27.0	25.4	6%
North America	194.6	188.1	3%
Total	1069.7	945.8	13%

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# Dairy: Up 3%

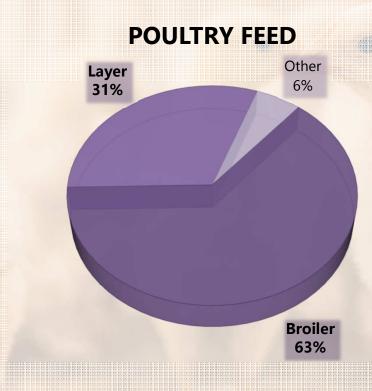
#### **RUMINANT FEED**



- Over half global ruminant feed production
- Up
  - Growing in all regions
  - Africa top growth, up 10%

# Broiler: Up 3%

- Majority of feed production is broiler
- Growth in all regions
  - Africa fastest growing, up 10%



# Layers: Up 1%

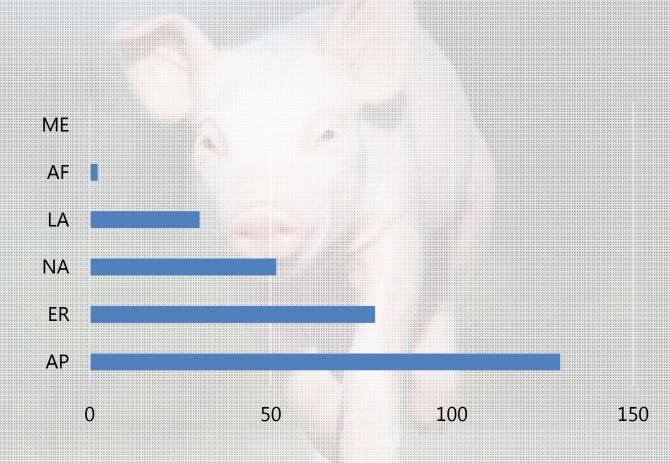
- Growing in all regions
- Genetic & management improvements mean egg production increasingly more efficient
- Asia-Pacific represents 44% of global layer feed production

#### Beef: Down 1%

- Down globally 1%
  - Biggest drop Latin America (-9%), Asia-Pacific
- Trend toward leaner "white" meats
- USA produces 1/3 global beef feed
  - 5X that of next highest producer (South Korea)



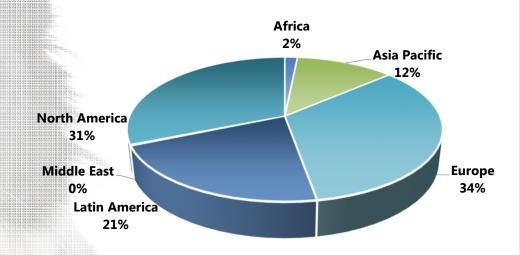
- Asia-Pacific China rebounded in '17
- Europe Russia starring
- Africa Kenya, Tanzania, Mozambique, Uganda & Namibia



## Pets Perk Up

- 28.1 Million tons
- Growing middle classes in Asia-Pacific, Europe & Latin America
- NA market remained relatively flat
  - Higher value, lower volume

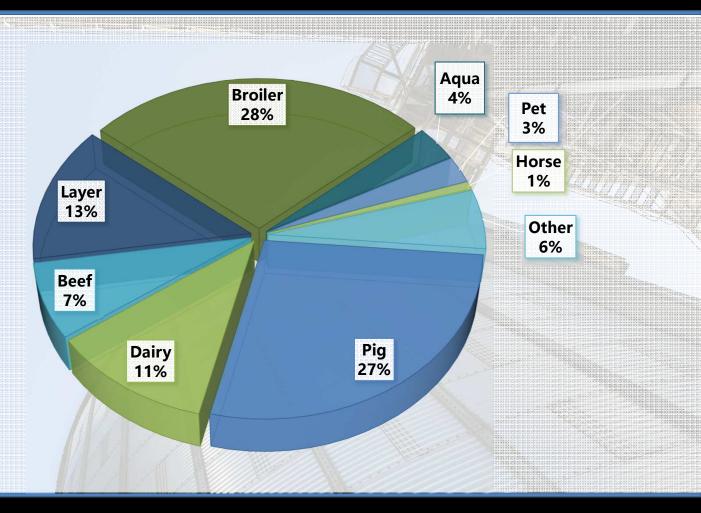
#### **Regional Pet Food Production**



#### Horses Race Ahead

- Every region grew- total 8 M tons
- NA & Africa smallest growth
- LA up 108K tons
  - Peru, Brazil & Mexico
- AP up 160K tons
  - South Korea, China & Australia
- ME up 25K tons
  - Saudi Arabia & UAE
- Europe up 24%
  - The Netherlands, Ireland, France & Russia

Percentage of Global Feed Production by Species



# Top Seven of 2017 — significant!

S. No	Country	Mills	Production (MT)	Growth
1	China	6,000	186.9	-0.39%
2	USA	6,241	173	2%
3	Brazil	1,572	69.9	1%
4	Russia	569	37.6	19%
5	Mexico	501	34.4	2%
6	India	1,201	34.2	<b>7</b> %
7	Spain	845	33	2%

#### Seven findings from Alltech Global Feed Survey #7

1. China: The bull takes a small step back

4. Africa still on the fast track

2. Russia leaps forward

**5.** Aqua treads water

3. India ignites

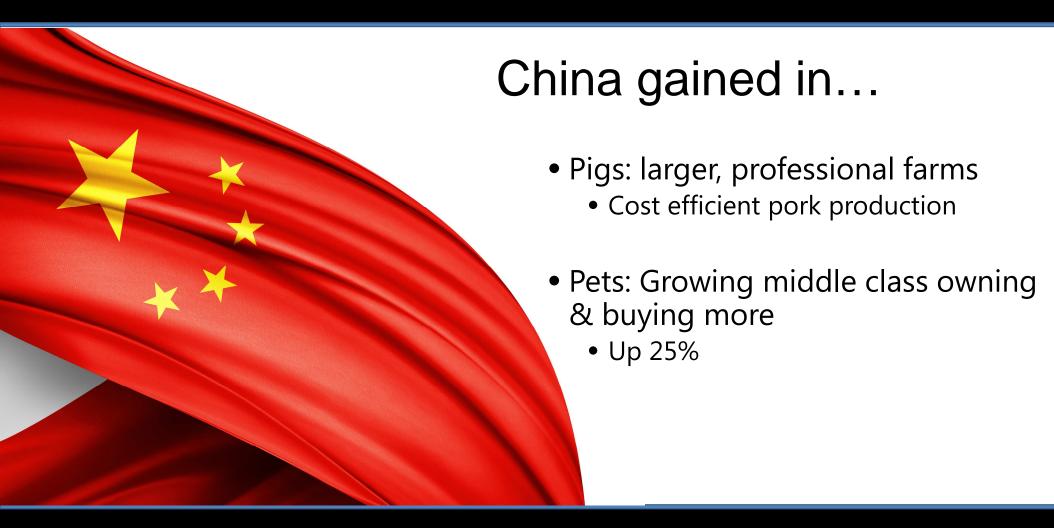
6. Horses Race Ahead

7. Feed costs reflect food costs



China: The bull takes a small step back

- 0.4% decline because:
  - Dairy: Milk famers struggling to balance high priced inputs with poor returns
  - Beef: Local production replaced w/ cheaper and/or higher quality imports.
  - Layer: Rapid consolidation & increasingly efficient.
  - Broiler: Stagnating market, poor prices for 'white broilers'

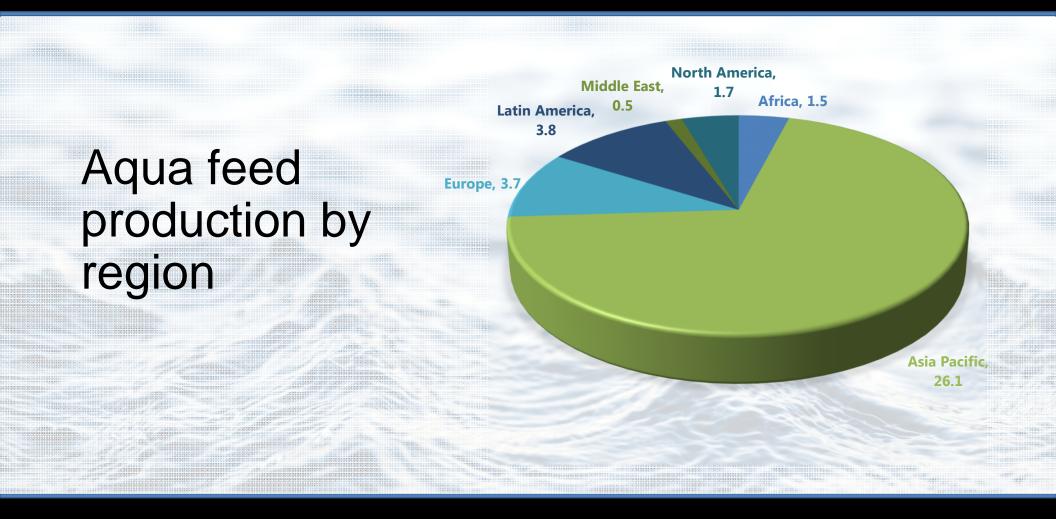


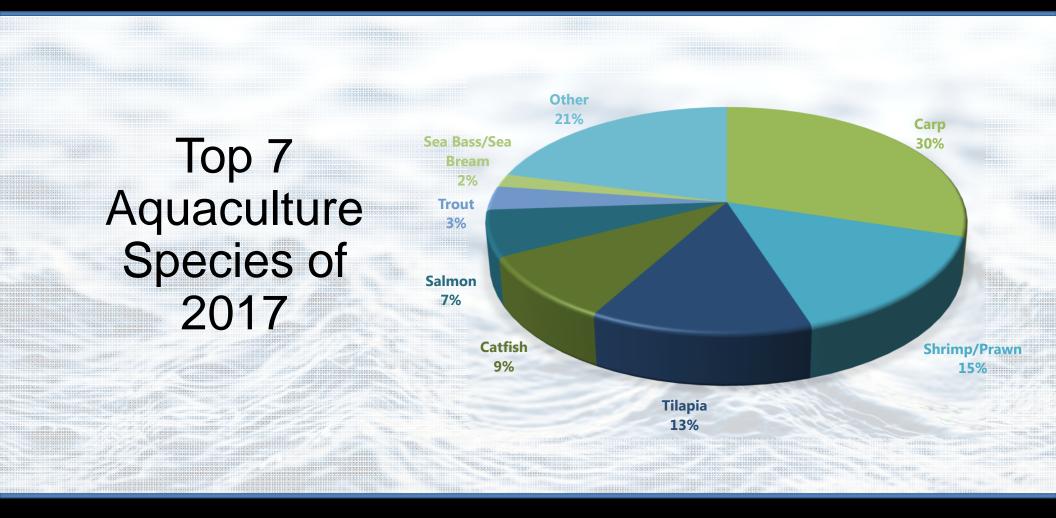




# Aqua treads water

- Little global growth: 0.29%
- Big Story Asia: China, Vietnam, Indonesia, Taiwan, Japan all down
- Latin America up: Brazil, Chile & Peru
- Africa down slightly
- Middle East up, especially Iran





# Value of the Feed Industry: \$430 billion

	Pigs	Layers	Broilers
Global Average	\$363	\$363	\$418
Percent Change	2%	-1.7%	-14%

\*This is based off of countries that reported a finisher diet price

# Feed Costs: Regional Averages

	Pig		Layer		Broiler	
Africa	\$	539.29	\$	470.22	\$	564.63
Asia-Pacific	\$	419.22	\$	401.40	\$	467.53
Europe	\$	312.98	\$	304.93	\$	353.02
Latin America	\$	355.86	\$	370.43	\$	414.07
Middle East		NA	\$	408.25	\$	498.25
North America	\$	247.50	\$	<b>252.50</b>	\$	281.50

#### Feed costs reflect food costs

- Feed costs expected to stay low for the foreseeable future.
- Farmers & growers improving their response to disease & drought.
- Improved yields, bountiful harvests for cereals, proteins.
- Food prices are at historical low.

# South Asia Five Year Growth MT

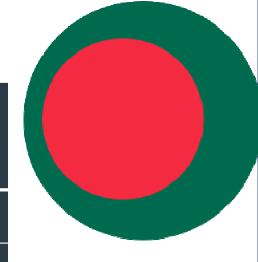
	2017 Production	2012 Production*	Growth
India	34.243	26.837	28%
Bangladesh	5.610	2.730 SECRE 1 14FAN	105%
Sri Lanka	0.884	0.615	44%
Nepal	0.881	0.739	19%

\*Based off 2013 survey estimates

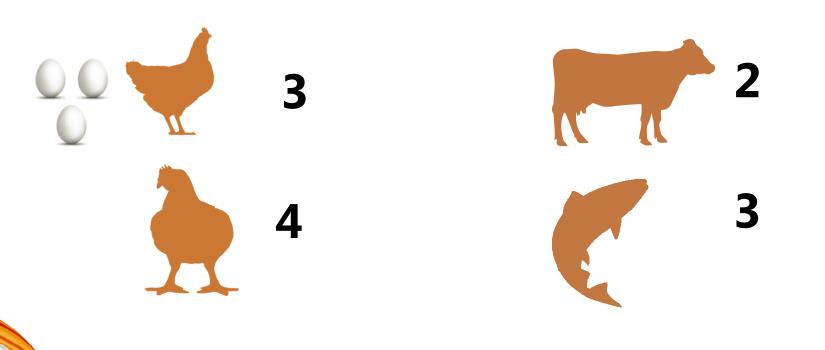
**AP1** Alexa Potocki, 1/31/2018

# Feed Production MT

	2014	2017	% Variance
Layer	0.35	1.60	357%
Broiler	1.50	2.50	67%
Dairy	0.20	0.25	20%
Aqua	0.60	1.20	100%



#### INDIA no. 6 from Alltech Global Feed Survey #7



Species Million Metric Tons

Dairy 10.01

Layer 10.12

Broiler 12.3

Aqua 1.84

Pet 0.0375

Equine 0.014

**India total 34.243 MT** 



#### Feed Production MT

Species	2016	2017	% Variance
Dairy	9.478	10.01	5.31
Layer	9.652	10.12	4.62
Broiler	11	12.3	10.57
Aqua	1.7	1.84	7.61













- ➤ Model of growing chicken is there any impact on chicken consumption (feed production)?
- > What is the future for commercial feed manufacturers in India?
- > Why integrators/contract growers not buy feed from commercial feed manufacturers?
- > Why there is resistance for species diversification by feed millers?
- ➤ Why horse feed/raw material/ornamental fish feed should be imported in India?
- > Are we selling our food industry which means feed industry to consumers?