

2021 Agri-Food Outlook

Patrick Charlton
Vice President
Alltech Europe





2021 GLOBAL FEED SURVEY

10th Annual

Featuring data from 142 countries



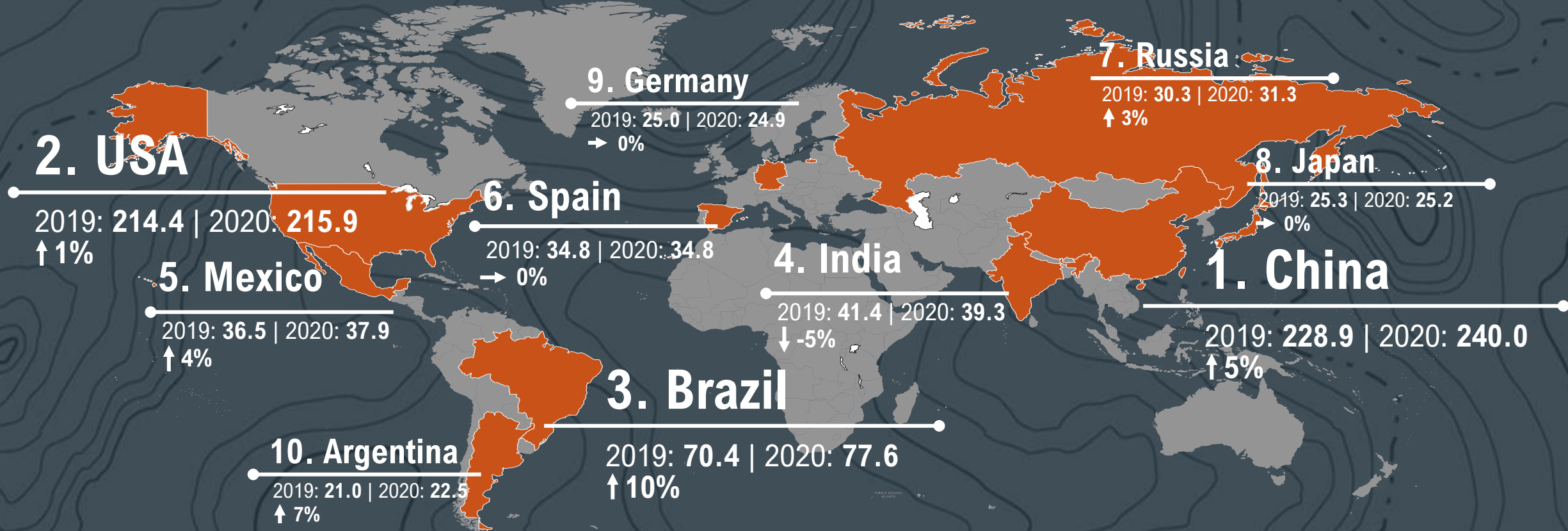
GLOBAL FEED PRODUCTION

Region	2019	2020	Growth
Africa	43.7	43.0	-2%
Asia-Pacific	427.0	433.9	2%
Europe	264.9	261.7	-1%
Latin America	168.9	176.5	4%
Middle East	25.3	24.8	-2%
North America	236.0	237.2	1%
Oceania	10.5	10.4	-2%
Total	1,176.4	1,187.6	1%

**Million metric tons*

@2021 Alltech Global Feed Survey

TOP TEN COUNTRIES



@2021 Alltech Global Feed Survey

BY SPECIES



LAYERS → 0%



DAIRY → 0%



BROILERS ↑ 1%



BEEF ↑ 1%



AQUACULTURE ↑ 3%



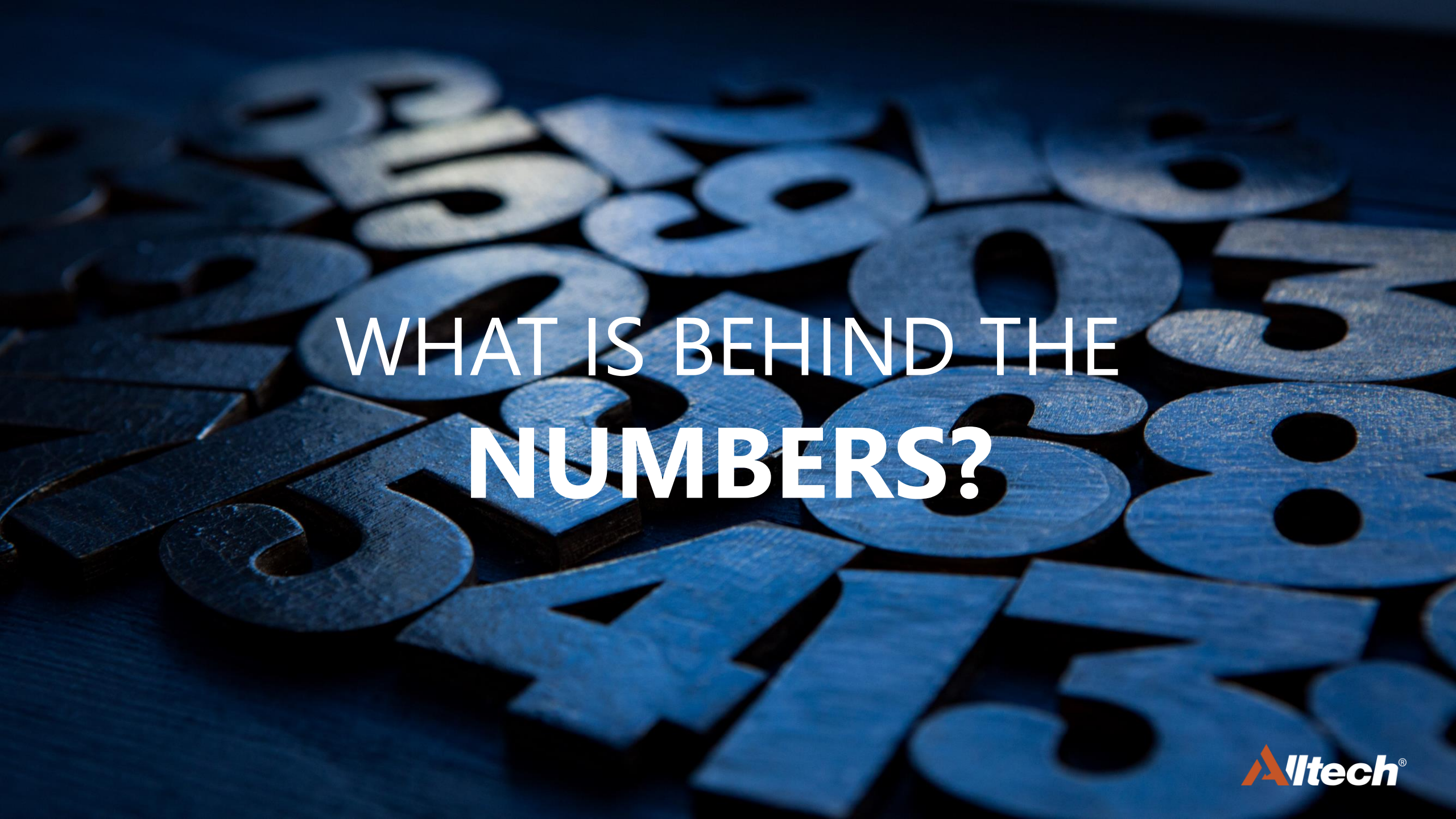
PIGS ↑ 1%



PET ↑ 9%

@2021 Alltech Global Feed Survey





WHAT IS BEHIND THE NUMBERS?

5 stories behind the numbers

- 1) China's resurgence
- 2) Shifts in supply chains (Trust-based transactions)
- 3) Rise of e-commerce
- 4) Health as a consumer priority
- 5) The trend of inclusion in business





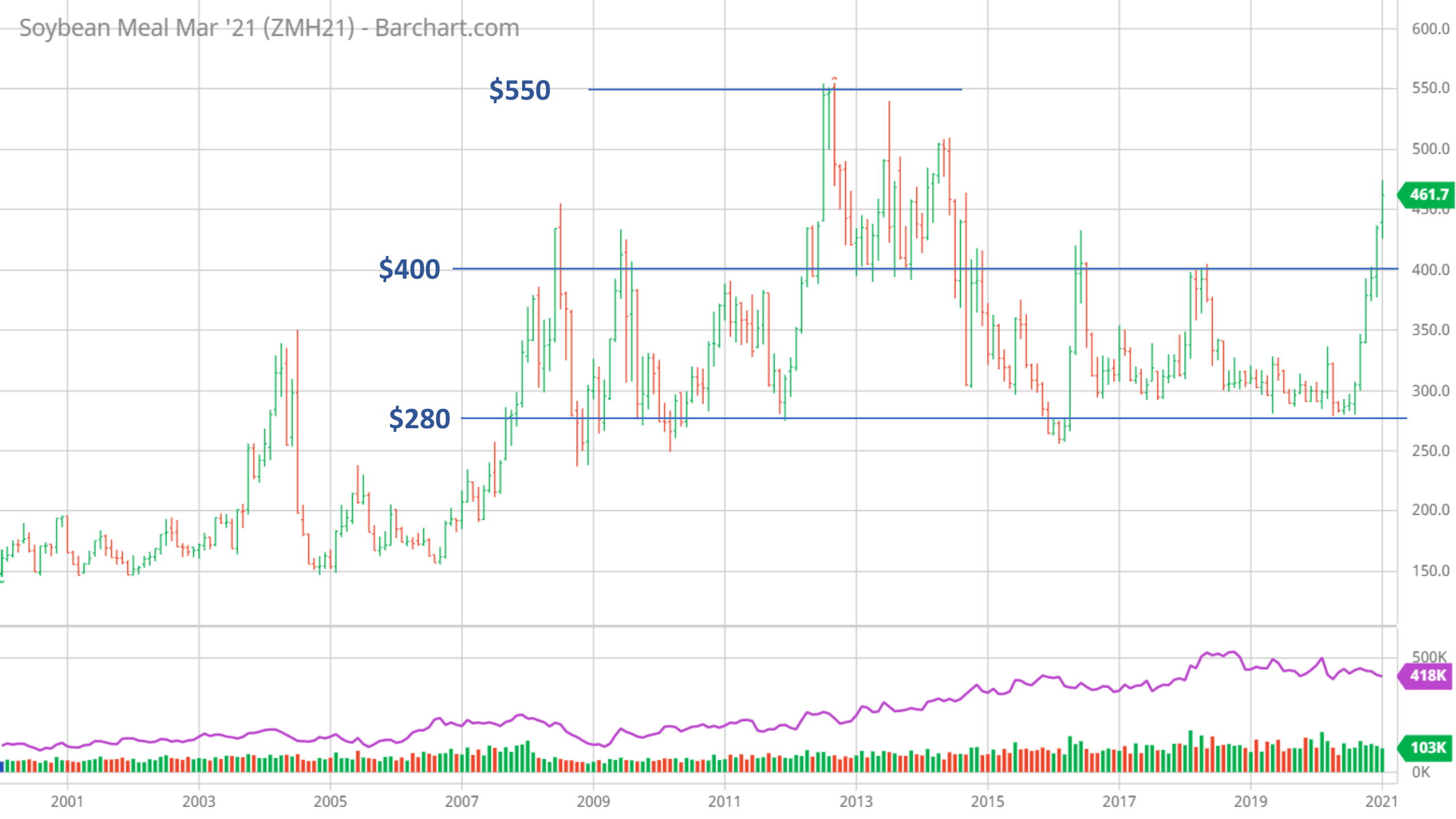
China has re-emerged as the **world's top feed producer**. Even in the face of disease challenges and lockdown, China's rebound has been faster than expected.

2019: **228.9** | 2020: **240.0**
↑ 5%

CHANGING GLOBAL SUPPLY CHAINS



85% of countries reported that the price of ingredients affected the industry in 2020



\$550

\$400

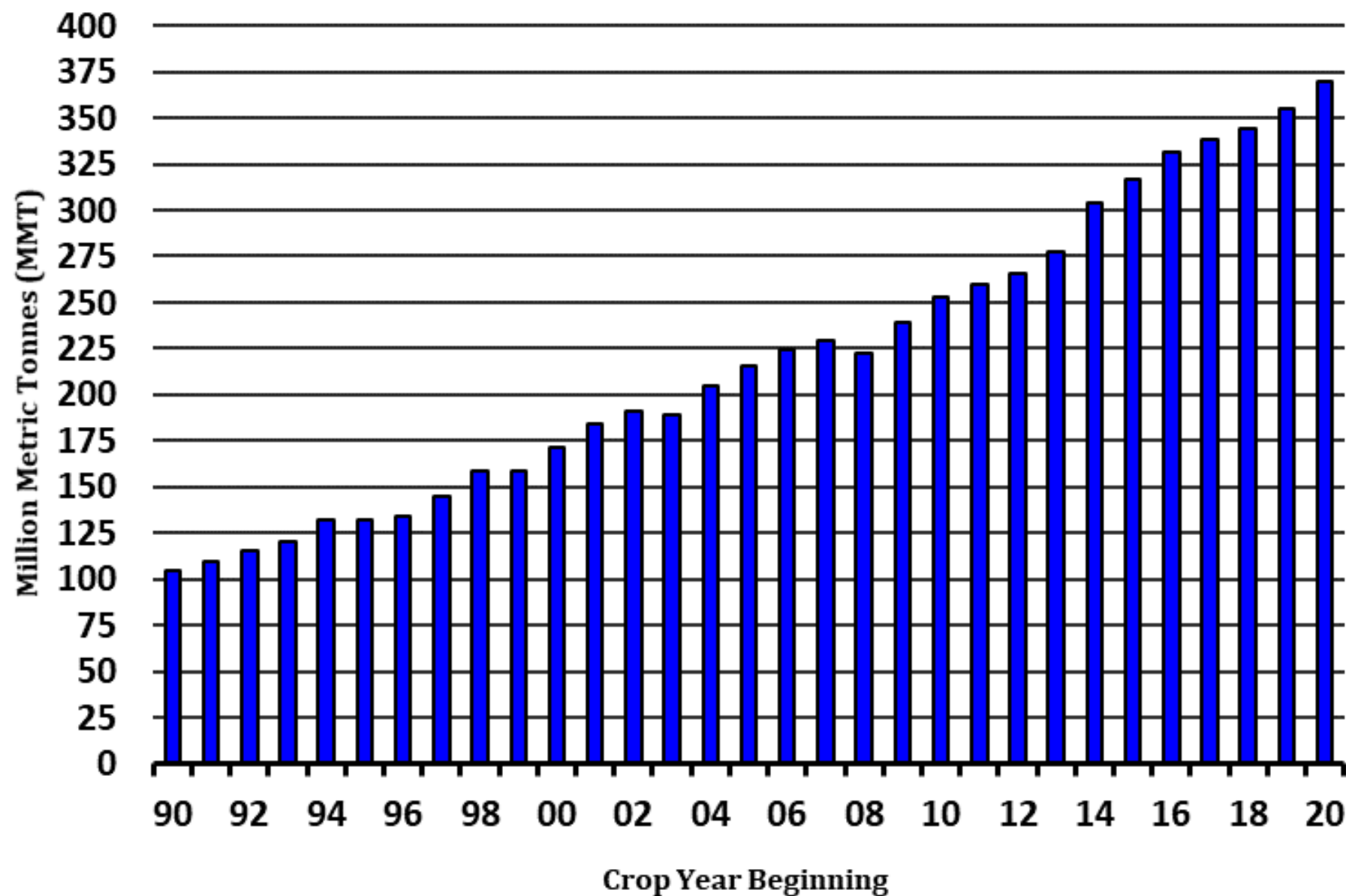
\$280

461.7

500K
418K

103K
OK

World Soybean - Domestic Consumption



Most Recent: 369.822 As Of 01/12/2021

The Hightower Report

RISE OF E-COMMERCE





77.4%

*of countries in our
Global Feed Survey
said COVID
moderately or
significantly grew
e-commerce efforts*

54%

said it did so significantly.

HEALTH is
prioritized





THE TREND OF INCLUSION IN BUSINESS

Looking ahead to a post-Covid world

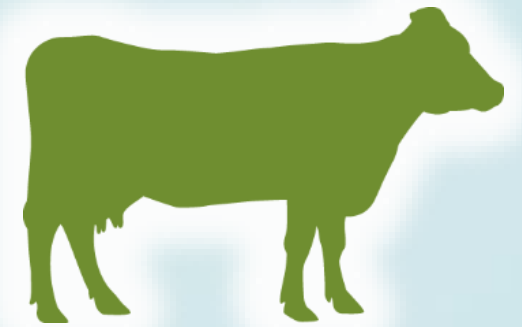
The Opportunity



World population
expected to increase to
9.7 bn by 2050



World demand for food
increase by 50%



**Global milk production
set to increase 580
million tonnes to 1,043
million tonnes in 2050**



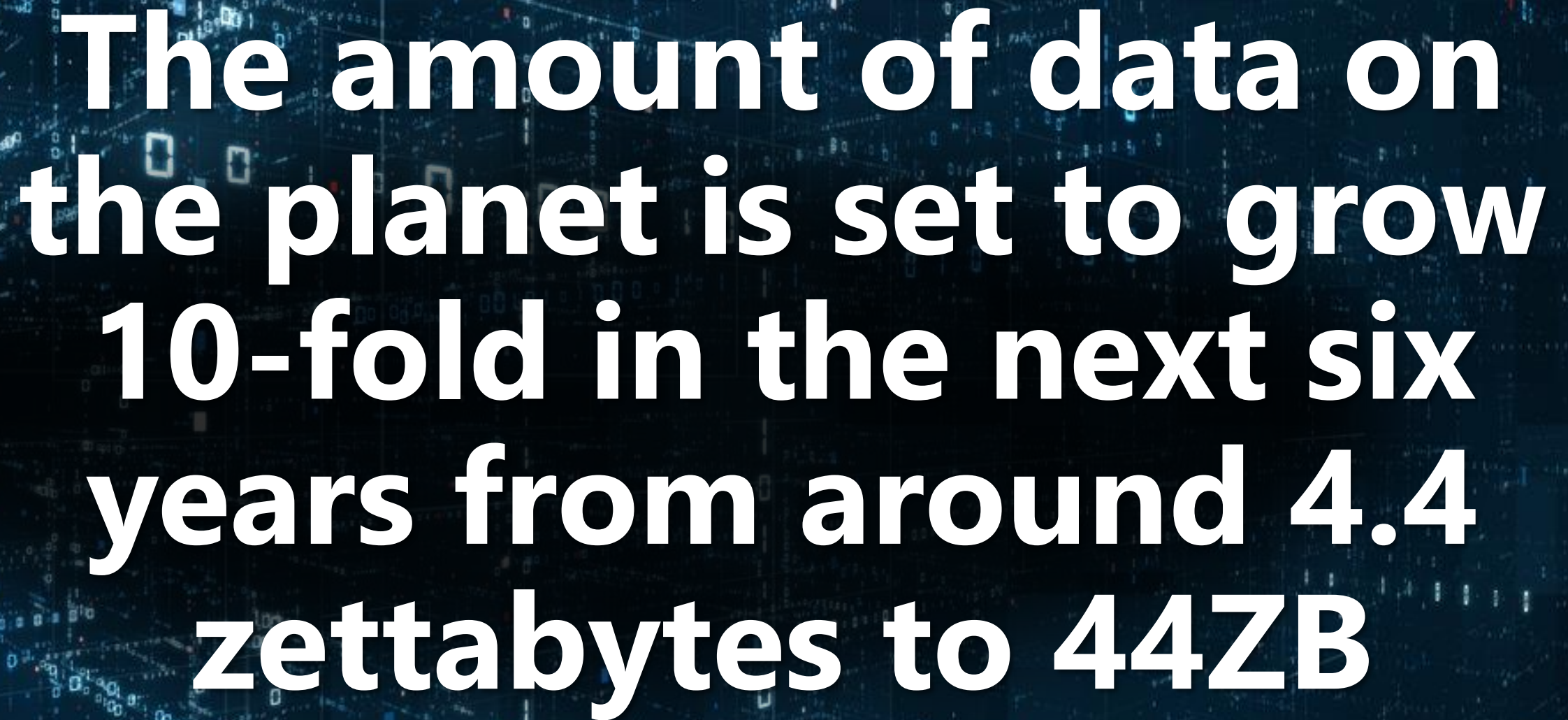
For the first time in 25 years

**Agriculture ranks 1st in positive
U.S. public perception**, according
to a recent Gallup poll


*Grocery and restaurant industries
rank #2 and #3*



Adapting to a changing *Agricultural Landscape*



The amount of data on the planet is set to grow 10-fold in the next six years from around 4.4 zettabytes to 44ZB

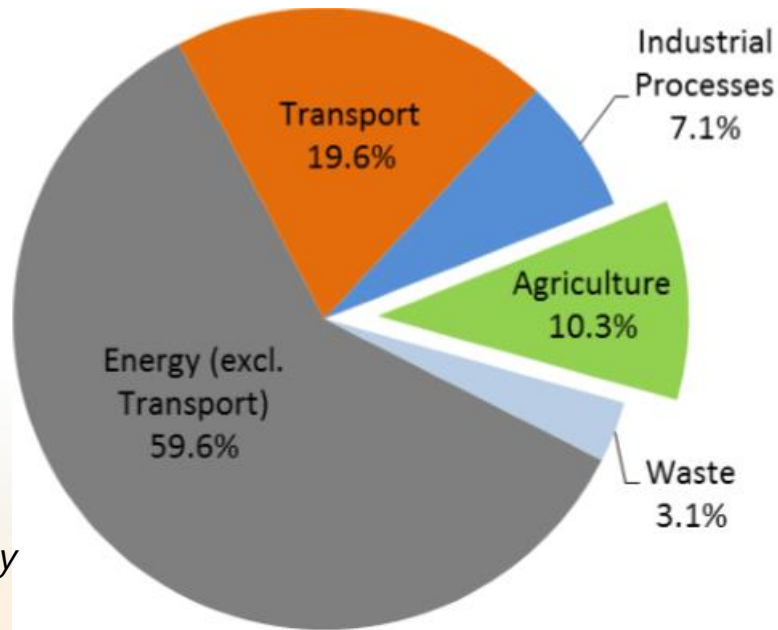
A person wearing a red and black plaid shirt is holding a tablet computer in a green field. The person is seen from the side, and the background is a blurred green field under a blue sky.

‘Smart farming’ is not a substitute or a replacement for the farmer and his team.

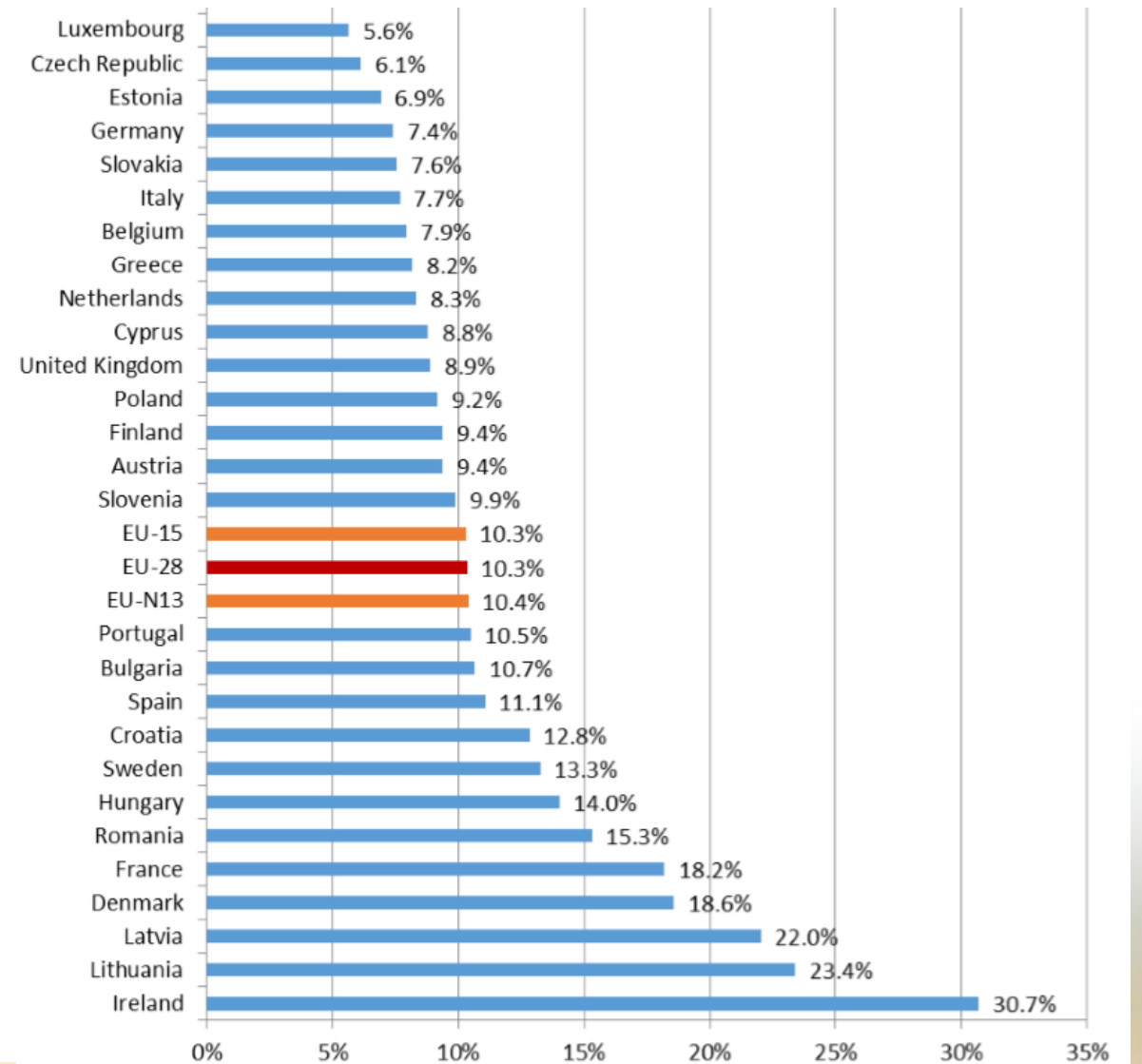
But it can provide information and knowledge into the hands of farmers allowing them to make more effective, efficient and timely decisions

AGRICULTURAL EMISSIONS IN THE EU

How important are agriculture (non-CO2) emissions in the EU?



Source: EU GHG Inventory 2016 (EEA, 2016)



Vision 2026

Measure Soil fertility Reseed Clover

GRASSLAND MANAGEMENT

Diet Fertiliser Electricity

DAIRY FARM INPUTS

HERD PERFORMANCE

BCS management Mineral management Nutrition management

GENETICS

Health + Fertility Milk Solids



Vision 2026



2021		2026
7.8	Grass utilisation t DM/ha	9.0
0.86	Forage quality UFL	0.93
184	Fertiliser use kg N/ha	170
417	Milk Solids kg	480



20% reduction by 2026

A Smart Future:

The Goal:
*Good Quality, Nutritious,
Affordable Food*

with limited waste,
maximised productivity &
environmental protection



Working
together
for a

Planet
of Plenty™

