

Welcome & Introductions

Ken Frazier, Chairman and Chief Executive Officer

Financial & Value Creation Overview

Rob Davis, Chief Financial Officer and Head of Global Services

Commercial Growth Drivers: KEYTRUDA & Beyond

Frank Clyburn, Chief Commercial Office

Animal Health Innovation

Rick DeLuca, President, Merck Animal Health

Merck R&D Strategy Overview

Dr. Roger M. Perlmutter, President, Merck Research Laboratories

Pipeline Opportunities

Dr. Roy Baynes, Head of Clinical Development and Chief Medical Officer, and Mike Nally, Chief Marketing Officer

Future of Merck R&D: Panel Discussion

Merck Research Laboratories Leadership: Dr. Dean Li, Dr. Fiona Marshall and Dr. Daria Hazud

Q&A / Closing Remarks

All

Lunch Break

ΑII

Breakout Sessions

Pipeline Deep Dive

Next Generation Discovery

International Opportunity & China





MERCK ANIMAL HEALTH IS A MARKET LEADER

- Global scale
- Revenue growth above market
- Strong profit contribution
- Innovative new product solutions
- Technologies that drive customer value
- Merck synergies















STRONG LONG-TERM METRICS FOR THE ANIMAL HEALTH INDUSTRY

At the core of a \$34+ billion industry

CAGR mid-single digits¹

Companion Animal

Diagnostics
Vet services
OTC medicines
Pet supplies

Merck Animal Health

Pharmaceuticals
Vaccines
Solutions
Platforms
Monitoring
Identification

Livestock

Genetics Nutrition Food safety Diagnostics Predictable and sustainable growth drivers



Population growth



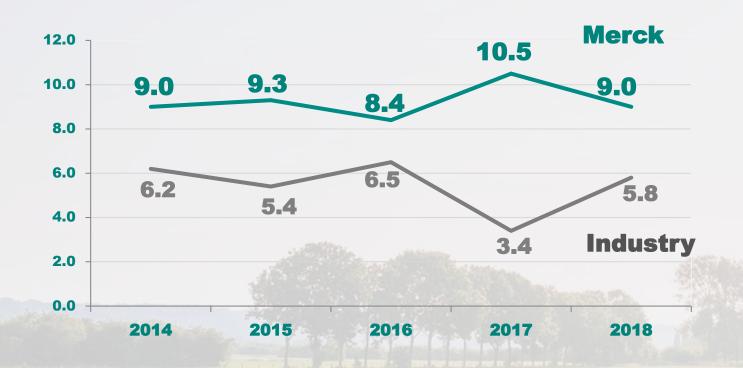
Rising middle class



Increasing urbanization



ANNUAL NET SALES GROWTH (%)



MERCK ANIMAL HEALTH:

OUTPERFORMING THE INDUSTRY



MERCK ANIMAL HEALTH

Global leader in pharmaceuticals, vaccines, health management solutions and emerging digital technology

800+
Product
families



Operating in more than

50 Countries

Products in more than

150 Markets

34
Dedicated
manufacturing
sites

12

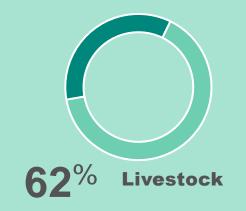
Major manufacturing technologies & platforms

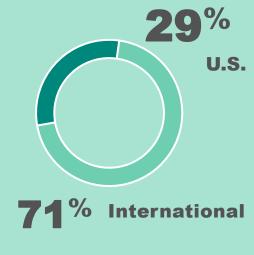




2018 Sales

38% Companion Animal







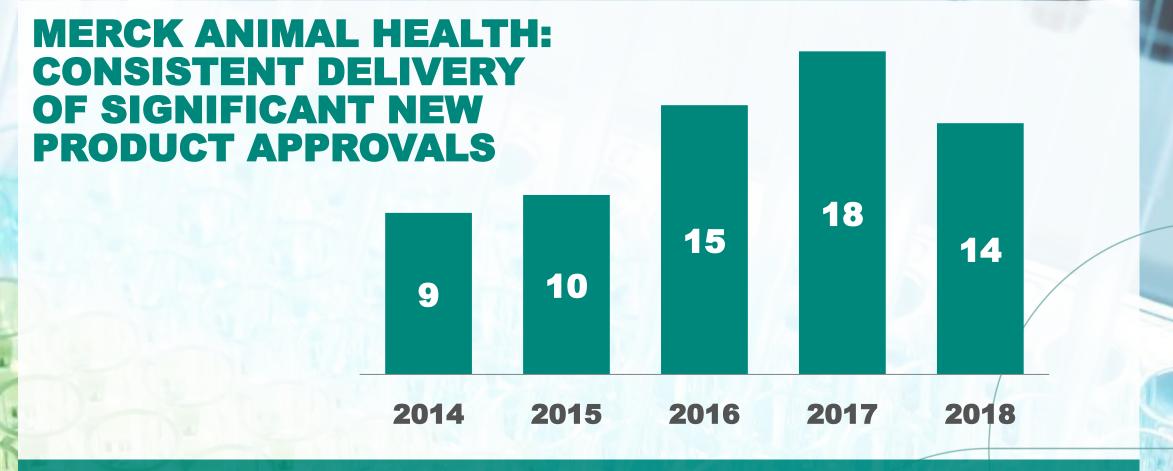




DEDICATED ANIMAL HEALTH R&D NETWORK



Over 66 Approvals in 5 Years



50 Geo-expansion licenses annually



OUR INNOVATION PATHWAYS

In-house Discovery and Technology

- Biologics
- Recombinant vaccines, RP technology
- Emerging diseases
- Delivery technologies

Merck Research Laboratories

- Monoclonal antibodies
- Oncology
- Diabetes, atopy, osteoarthritis
- Shared vaccine technologies

External Partnerships/Business Development

- Parasiticides
- Internal medicine
- Devices

Best-in-class
First-in-class
Vaccine leadership
Delivery technologies
Compound libraries
Diagnostic labs





Panacur® AquaSol™





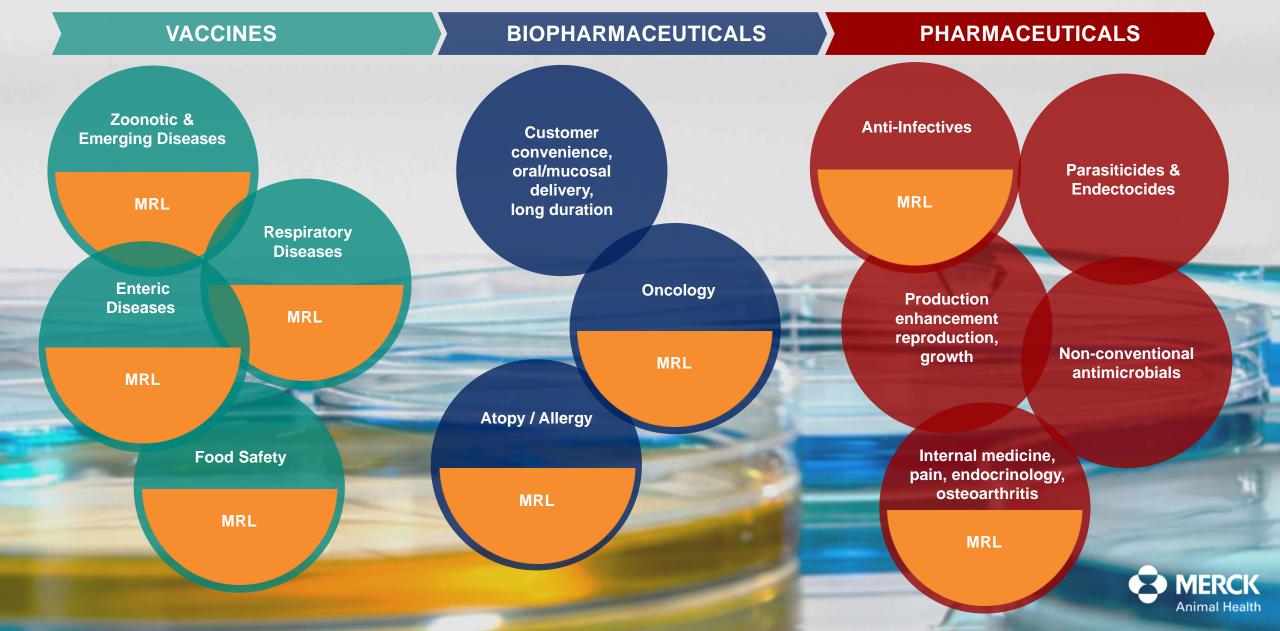






MERCK ANIMAL HEALTH R&D AREAS OF FOCUS: ACROSS SPECIES

Merck Research
Laboratories (MRL)
Collaborations



COMPLEMENTARY BUSINESS DEVELOPMENT

Geo-expansion: vaccines, pharmaceuticals High-growth markets





INVESTING IN HIGH-GROWTH ANIMAL HEALTH

Trends Driving Technology Adoption

- **Traceability**





INVESTING IN DIGITALLY-ENABLED CUSTOMER SOLUTIONS

Antelliq





>100 million pets monitored

>1,100 aqua monitoring stations worldwide









Whisper

Veterinary Stethoscope

Non-invasive tool that confirms bovine respiratory disease and gauges its severity in eight seconds





Sea lice counter





MERCK ANIMAL HEALTH: OUR COMPETITIVE ADVANTAGE

- ✓ Broad global portfolio and presence
- √ Innovative products and solutions
- √ R&D excellence and access to MRL expertise
- √ High-quality manufacturing and supply
- ✓ Investment in digital technology to drive customer productivity
- √ Track record of execution



