We are helping to feed the world more sustainably

Efficient technology

SENSEHUB[®] monitoring brand that monitors Livestock by collecting information on cow states to early detect the potential for illness and provide insights

Efficient use of resources

Since 1977 U.S. Beef industry produced 33 percent more protein with same size heads of cattle using natural resources more efficiently¹

Large Vaccines production

One of the world's largest producers of animal vaccines with over 102 billion doses per year

Detection of diseases

WHISPER® ON ARRIVAL - precision tool using a multitude of factors to predict which cattle may be at higher risk of potential sicknesses, in conjunction with the consultation of a veterinarian. This allows medicines to be administered in a more targeted, judicious manner, thus promoting more responsible antibiotic use

Broad protection

Vaccines and medicines protect dogs, cats and rabbits against many diseases, preventing transmission of vector-borne and zoonotic diseases

Broad portfolio

Veterinary medicines and vaccines that improve animal health

Animal Health and Welfare

Products and Packaging

Healthier

animals help

sustain our

environment



Recycled materials

20 percent decreased 15 percent Increased use of recycled packaging packaging for materials from 0 BRAVECTO® chews by percent to 15 percent: to 20 percent and leaflet be completed by 2022 weight by 40 percent

1 https://onlinelibrary.wiley.com/doi/full/10.1111/jiec.12333 *solar, wind, bio-gas or hydro 2 Manufacturing

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Packaging

updates



Innovative technology

SPHEREON[®] vaccines are produced and shipped in freeze-dried pellets saving packaging and energy in shipping



Polystyrene elimination

New Zealand working to eliminate polystyrene from cold chain by using biodegradable wool

Returnable boxes

Germany and Austria use returnable deliverable boxes that reduce CO₂ emissions, eliminate cardboard waste and lower breakage rate. Use of grass paper to print materials and bio air cushion films for packaging



Waste management

consumption Reduction of water by >45 percent of manufacturing optimizing the production schedules sites are zero to limit the number of waste to landfill: cleaning cycles needed many are close to becoming zero²

Waste and Water

Optimized

Energy and Emissions

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Waste destination

From biopharma,

<20 percent of operational waste is sent to landfill or incinerated without energy recovery²

Regulatory requirements

Meet and exceed local regulatory requirements for wastewater aloballv²

Water flow management Agua portfolio helps manage water flow and its impact on aquatic

species

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Reduction of GHG emissions

Reduced overall GHG emissions by 12% since 2015. We continue to work towards the corporate goal to reduce operational GHG emissions by 46 percent by 2030 from a 2019 baseline²



Renewable energy

30-40 percent of sites use renewable energy* for some operations²



Environmental team

50 percent of sites have an environmental sustainability team that tracks consumption of energy & water²

Carbon footprint reduction

All manufacturing sites use Low Carbon Transition Playbook to reduce carbon footprint²



Zero emissions and hybrid vehicles

40 percent of fleet vehicles are partial zero emission vehicles (PZEV), in Japan > 50 percent are hybrids

Energy management certification Most European manufacturing sites are ISO 50001

certified about Energy management²

MSD