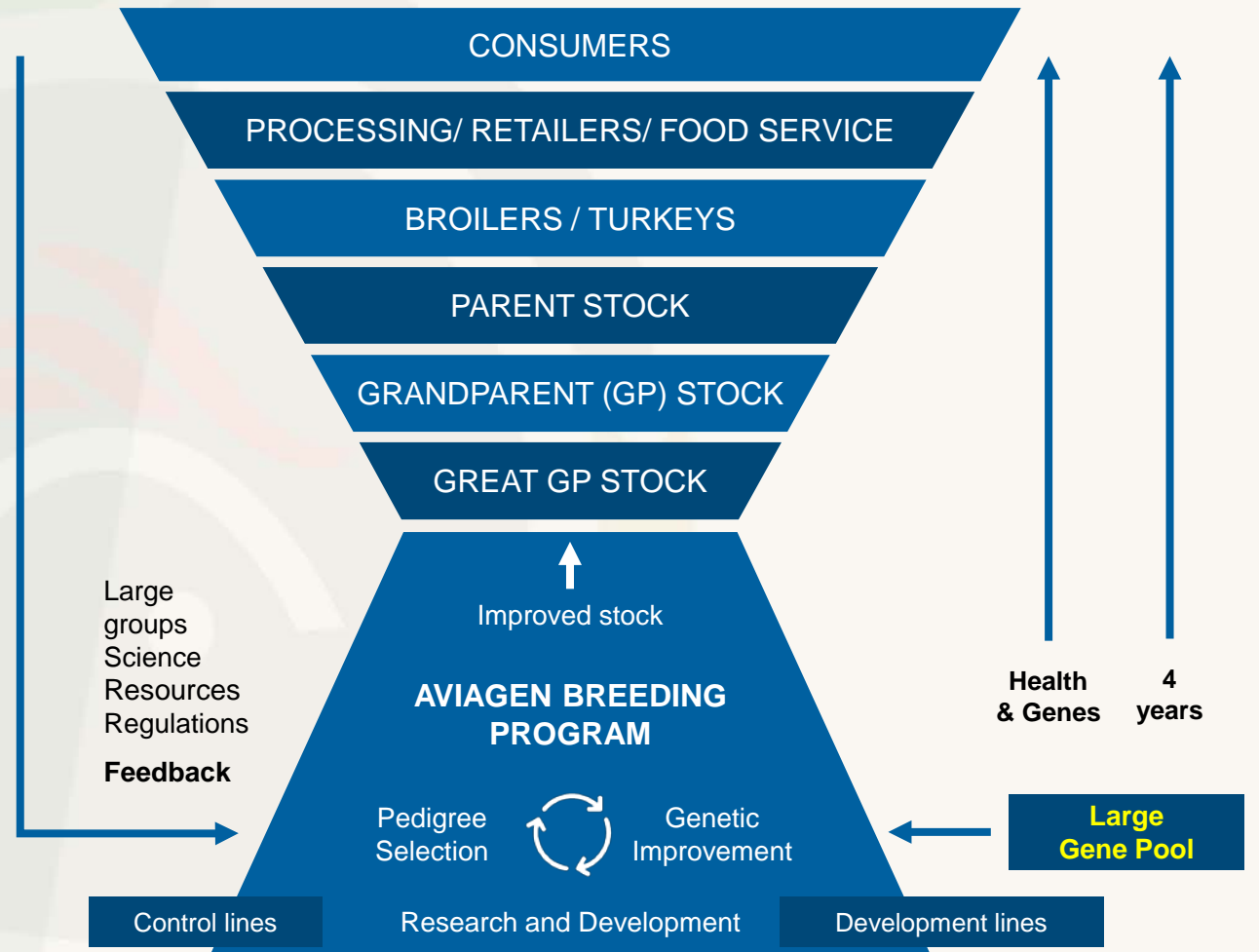




Balanced Breeding for Welfare and Sustainability in Poultry

Anne-Marie Neeteson

- **Breeding with ever increasing focus on animal welfare and sustainability since the 1970s**
- **Diverse product range** of cross-bred birds, typically made up of four different types of pedigree lines.
- From breeding program to commercial birds **takes ~ four years.**



Top 5 Commitments

Bird Welfare:
Cornerstone
of Sustainability



Sustainability: Where can poultry make a *difference*?



UN FAO-IPC Declaration São Paulo 29th August 2019





Compartmentalization



Global Supply



Safe and secure supply of healthy birds

- Excellent biosecurity
- Free from Avian Influenza, Newcastle Disease, Leucosis, Salmonellae, Mycoplasmas



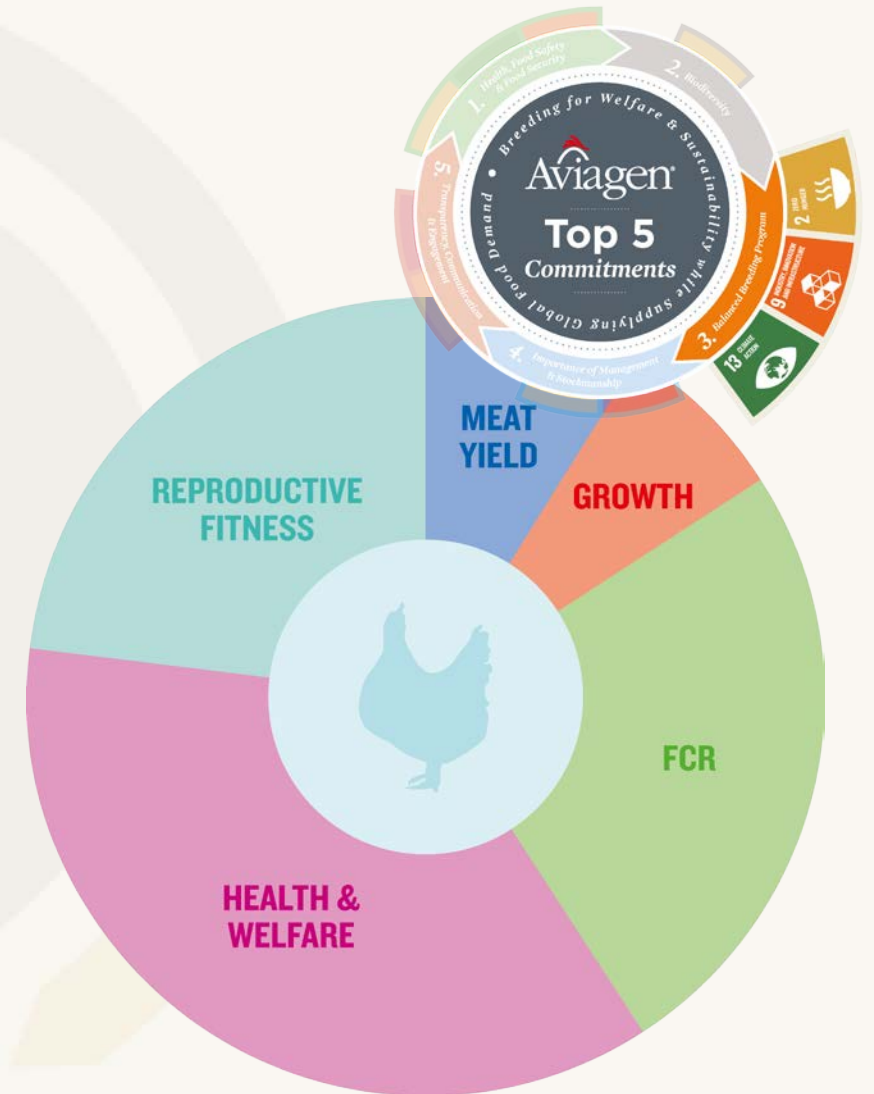
Providing a choice of conventional and slower growing breeds – all focused on welfare



Balanced Breeding

Improving Health, Welfare, Production, Global Footprint SIMULTANEOUSLY

- Sustainable production through responsible breeding
- Improving animal health and welfare
- Breeding for robustness and environmental adaptability
- Feed efficiency – the environmental sustainability driver
- Balanced breeding through innovative technology
- Both conventional and slower growing breeds



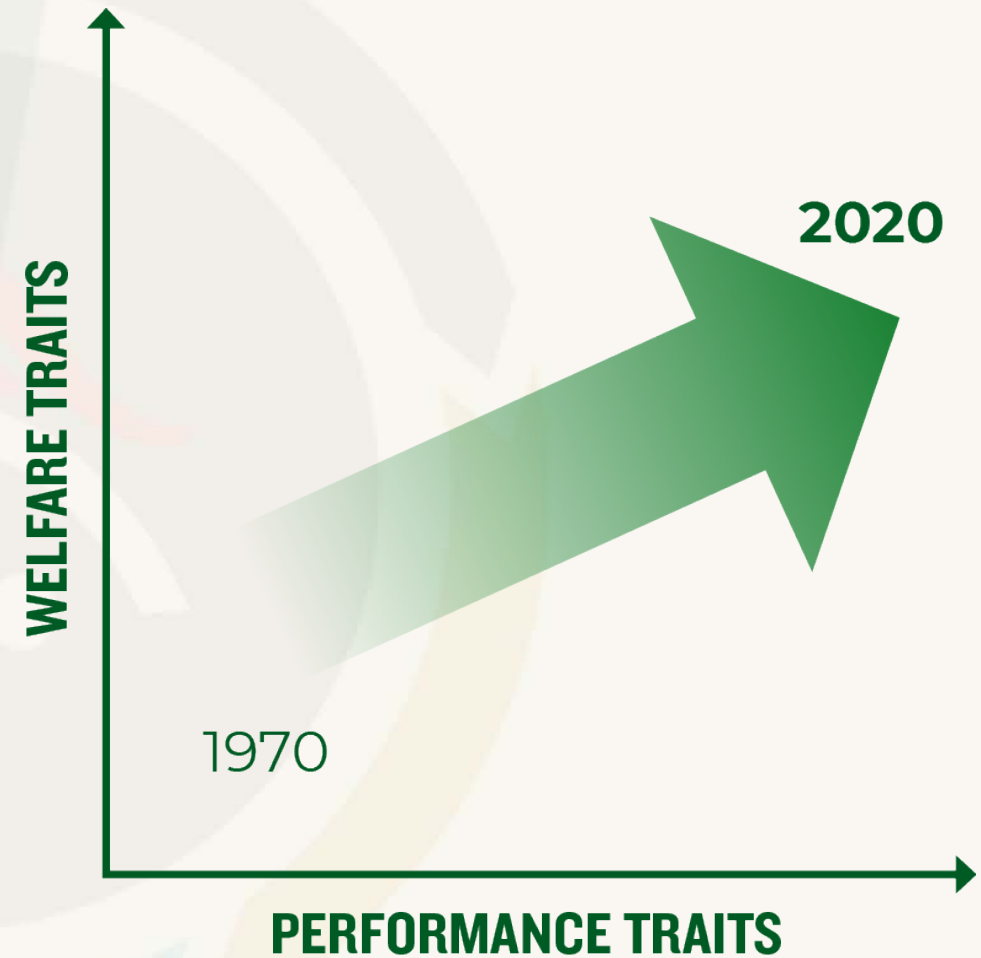
Improving animal health and welfare

- **EFSA (2010):** *“The major welfare concerns that have a genetic basis and that may interact with management factors to lead to poor welfare include skeletal disorders, contact dermatitis, ascites and sudden death syndrome. Most of these are linked with fast growth rates.”*
- Our breeding goals have long included traits related to skeletal, leg and foot health as well as heart function and liveability. As reported in EC broiler breeding report of Hiemstra & Ten Napel (2013).
- Through the ever increasing use of advanced medical imaging as well as gait scoring, we have and continue to deliver significant welfare improvements.



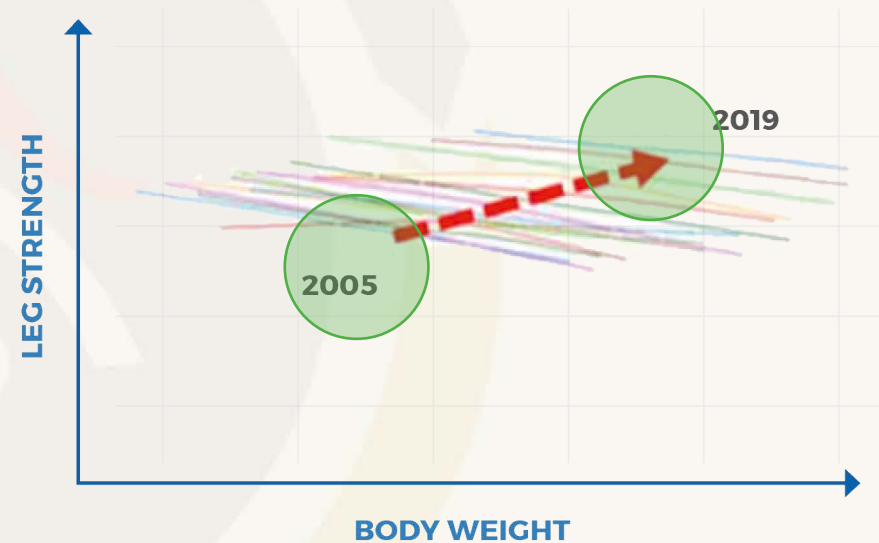
Committed to welfare

- Aviagen has a long-standing commitment to improving welfare.
- For decades, we have worked to deliver animal welfare in balance with health, environmental sustainability and global food security.
- We will continue doing so.



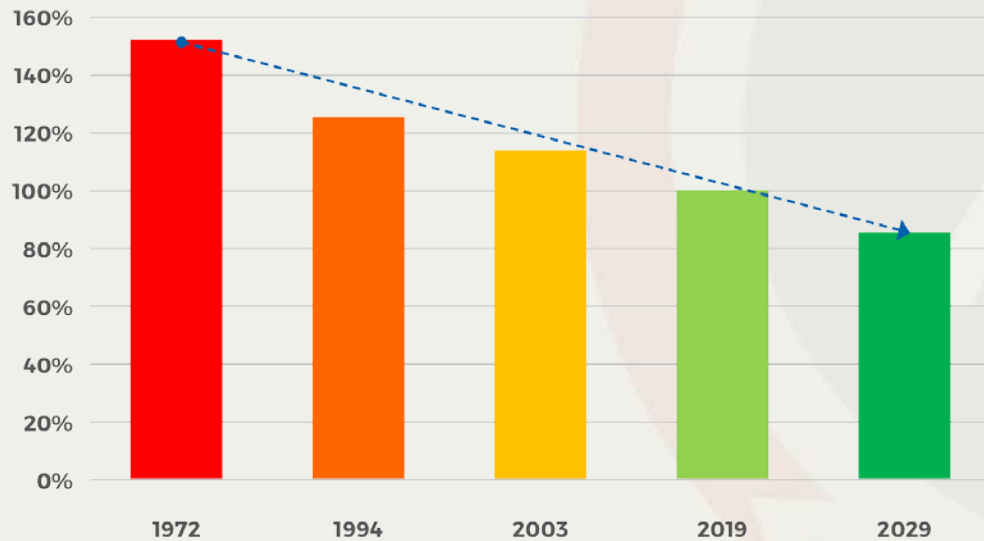
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Contribution to Lowering Carbon Footprint

1% GWP yearly reduction from FCR improvement



Global Warming Potential (Carbon, Footprint)





Best Sensor on the Market

Hearing

Listen to the bird's vocalization, breathing, and respiratory sounds. Listen to the mechanical sounds of fan bearings and feed augers.

Smell

Keep notice of smells in the environment such as ammonia levels. Is the air stale or stuffy?



Sight

Observe behaviour such as bird distribution in the house and a number of birds feeding, drinking and resting. Observe the environment such as dust in the air and litter quality. Observe bird health and demeanor such as positive, alertness, eyes and gait.

Taste

Water and feed quantity.

Touch

Handle the birds to assess crop fill and check the bird's general condition. Take notice of air movement across your skin. Is there a draft? What does the temperature of the house feel like?



International Poultry Welfare Alliance (IPWA)

European Live Poultry and Hatchery Association (ELPHA)

International Poultry Council (IPC)

European Forum of Farm Animal Breeders (EFFAB)

responsiblebreeding.eu



Committed to Breeding Welfare and Sustainability