Healthy animals without antibiotics

Susanne Steghöfer | Bühler AG | 2018

BUHLER

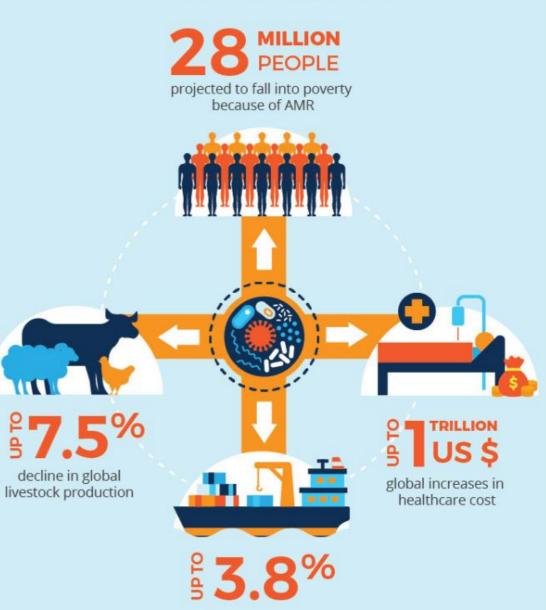
Innovations for a better world.

The biggest global threat: Antimicrobial resistance (AMR).

10 million deaths in 2050

Highest mortality in Asia and Africa

THE IMPACT OF AMR BY 2050 WOULD BE WIDE-RANGING

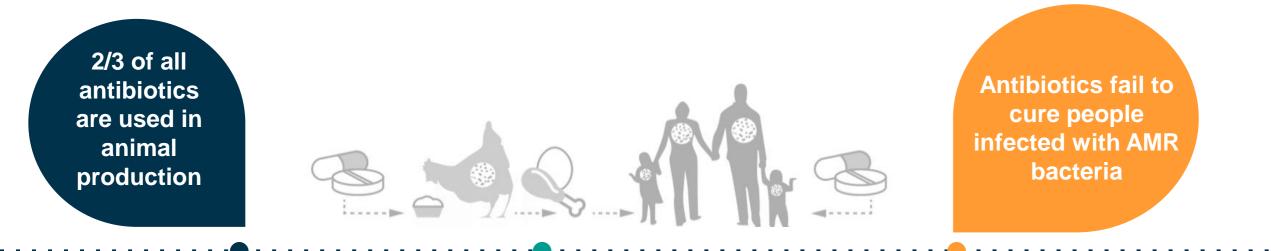


decline in global exports

World Bank Group



Overuse of antibiotics in livestock is at the origin of the AMR crisis.

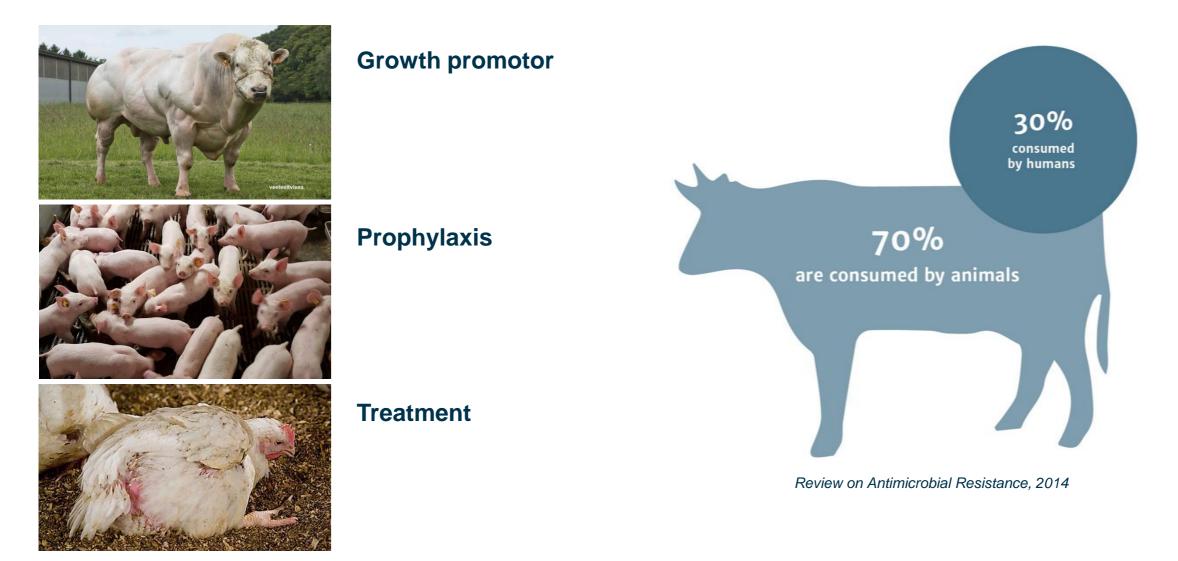


Selection and multiplication of antibiotic resistant bacteria (AMR)

Healthy animals without antibiotics | IAOM 2018 | S. Steghoefer



Intense livestock farming as one main driver of the AMR crisis.





It's time for a change!

Antimicrobial resistance affects everybody!

- General acceptance that antibiotics have to be reduced in animal production
- Ban of antibiotics without any kind of compensation leads to increased use of medically prescribed antibiotics
- Increasing pressure from legislation, consumers and retailers

Alternatives are needed to reduce the use of antibiotics in livestock!

Companies offering antibiotic free meat in the US





How can we reduce antibiotics in livestock?

Antibiotic reduction in livestock.

Who doesn't need antibiotics?



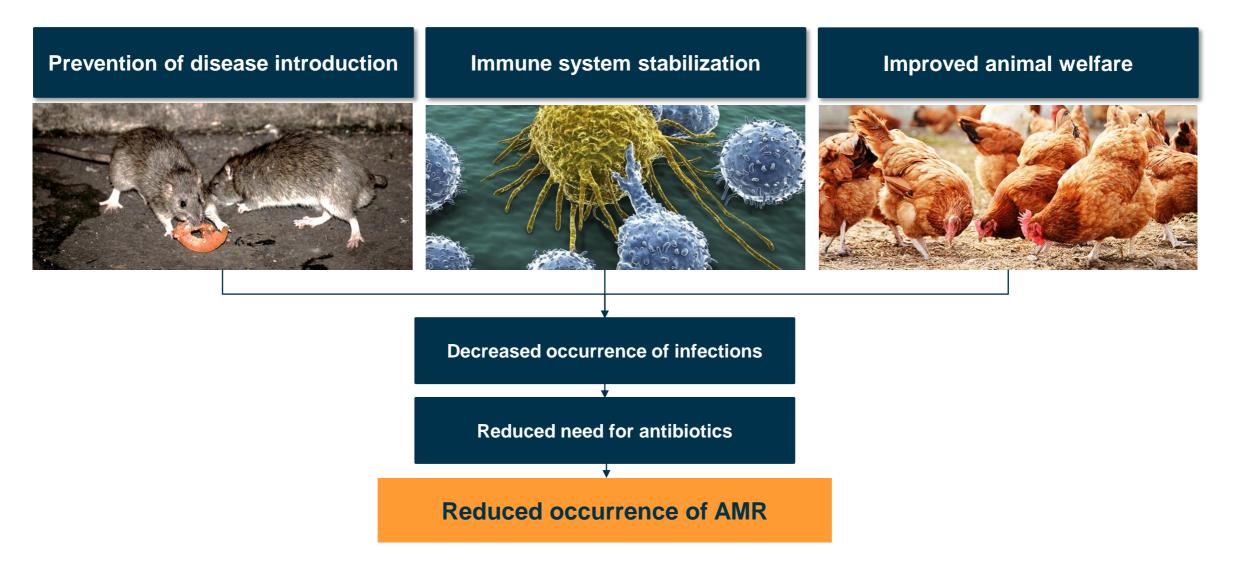
A healthy animal!

"You don't want an alternative to antibiotics, you want to change the paradigm and change the way you feed and raise the birds"

Dr. Stephen Collett, associate professor, College of Veterinary Medicine, University of Georgia

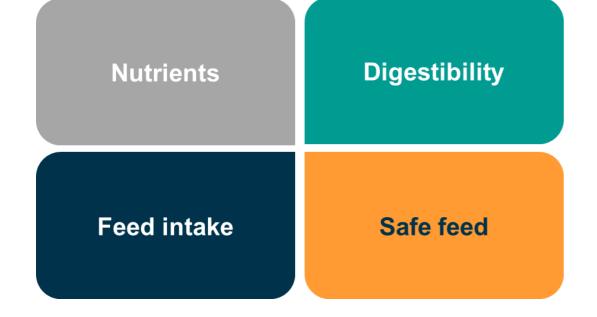


We need a multi target approach to increase animal health!



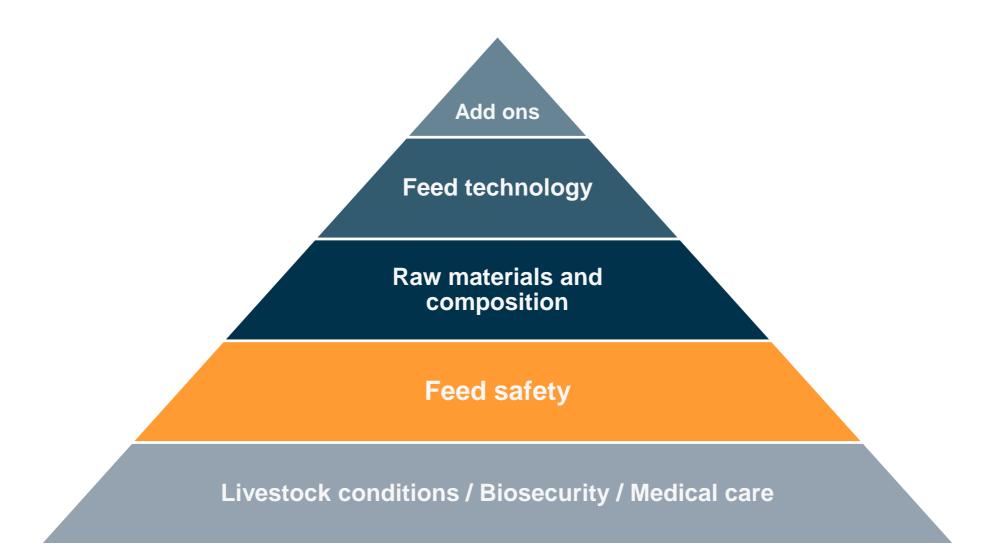


The role of nutrition in animal health.





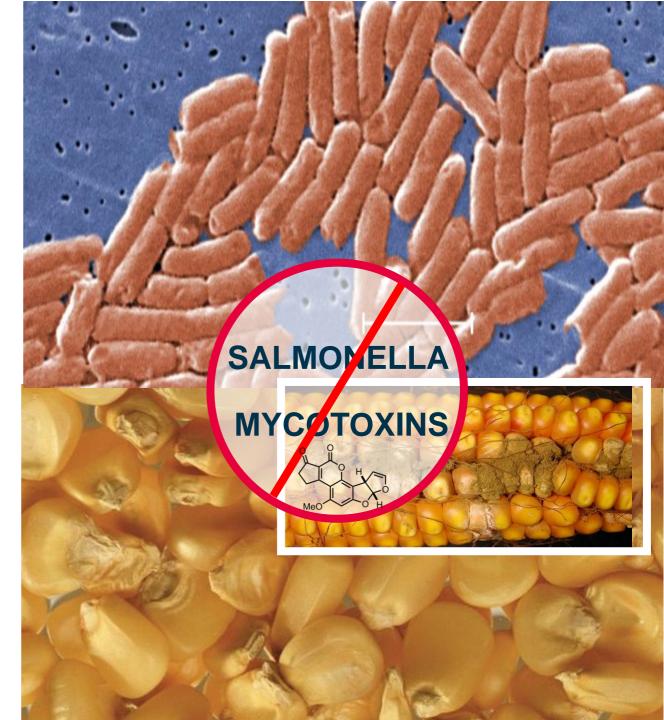
Feed safety: The basis for healthy animals.





Main feed safety issues.

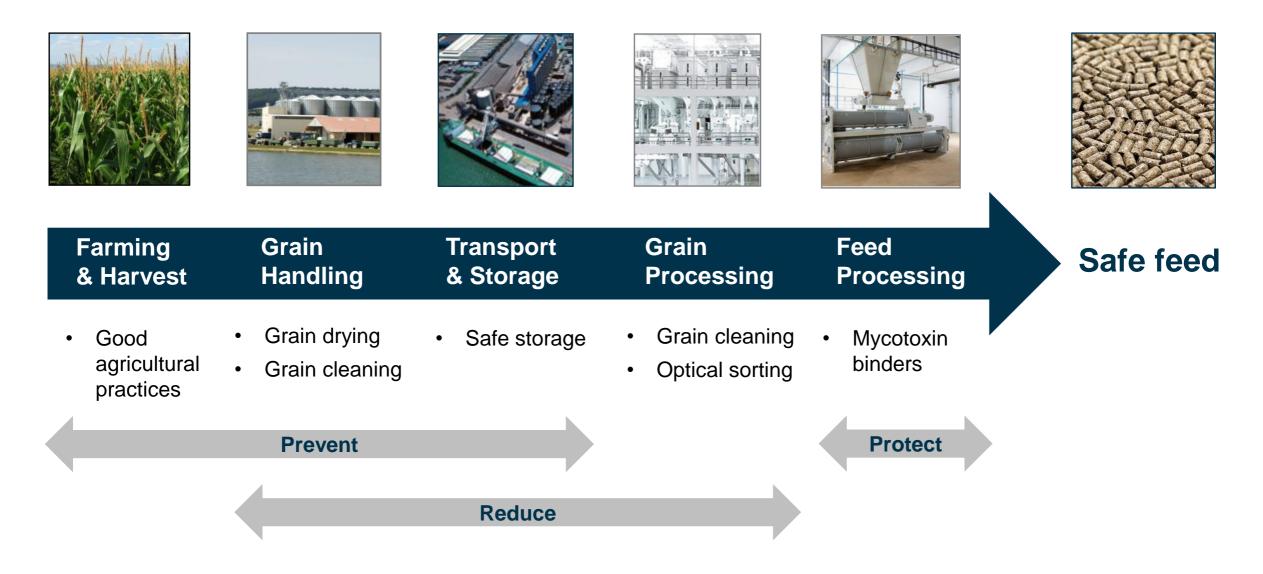
Feed free of harmful bacteria and toxins that compromise animal health



Mycotoxins impair animal health.

- Slower growth
- Impaired feed conversion
- Higher mortality
- Weak immune response

Solutions to reduce mycotoxins in feed.



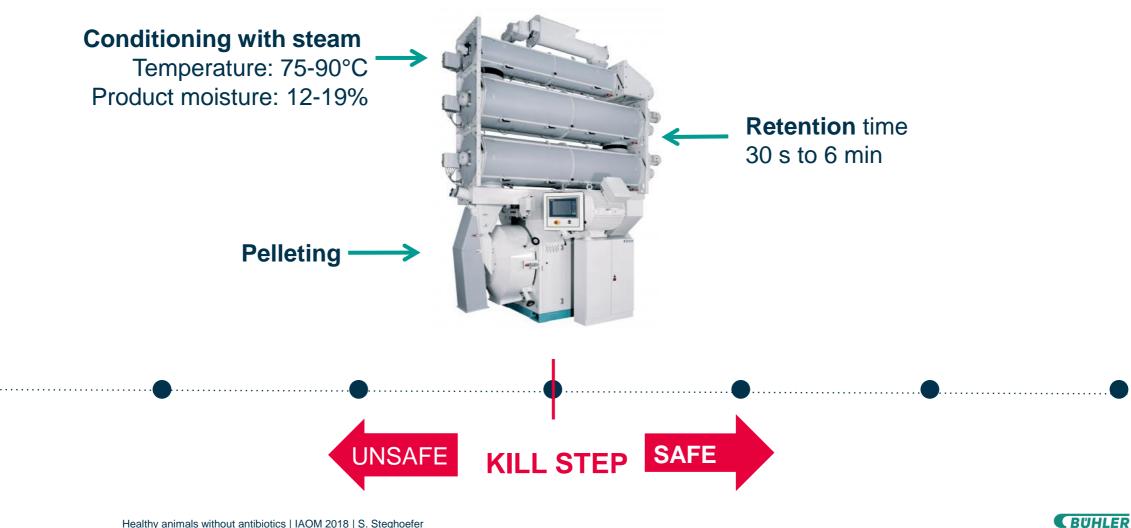
The significance of Salmonella contaminations in feed.



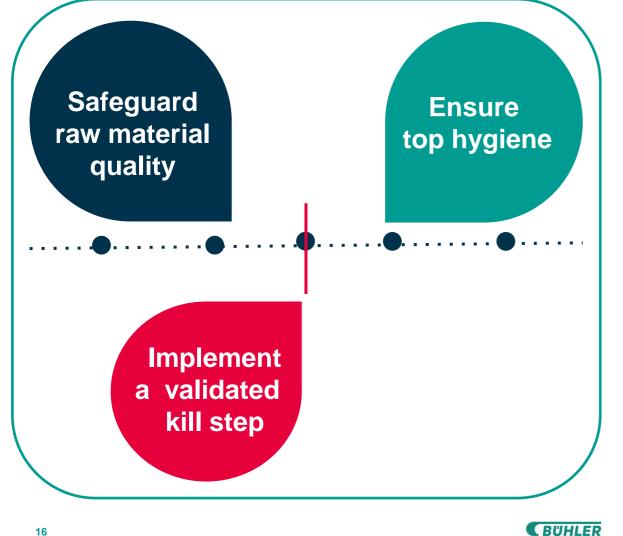




Salmonella control by targeted processing.



Feed safety solutions.





Summary: Safe and nutritious feed. What is the contribution of feed producers?

Add ons Feed technology Raw materials and composition Feed safety Livestock conditions / Biosecurity / Medical care

- Absence of pathogenic bacteria
- Compliance with mycotoxin limits
- Balanced nutrient composition
- Appropriate physical structure

- Appropriate feed form
- Additives

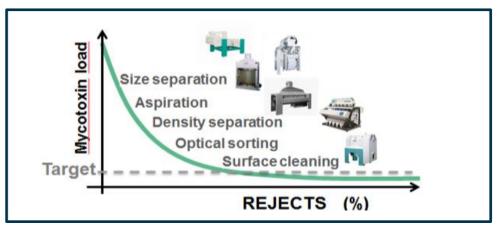
Bühler solutions to ensure safe and nutritious feed.



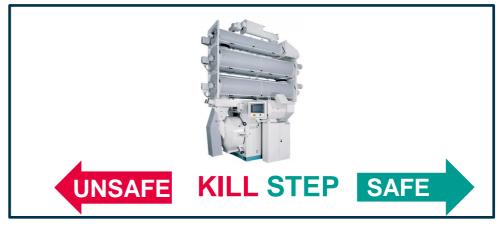
Education and training



Safeguarding the value of raw materials



Inactivation & process monitoring solutions

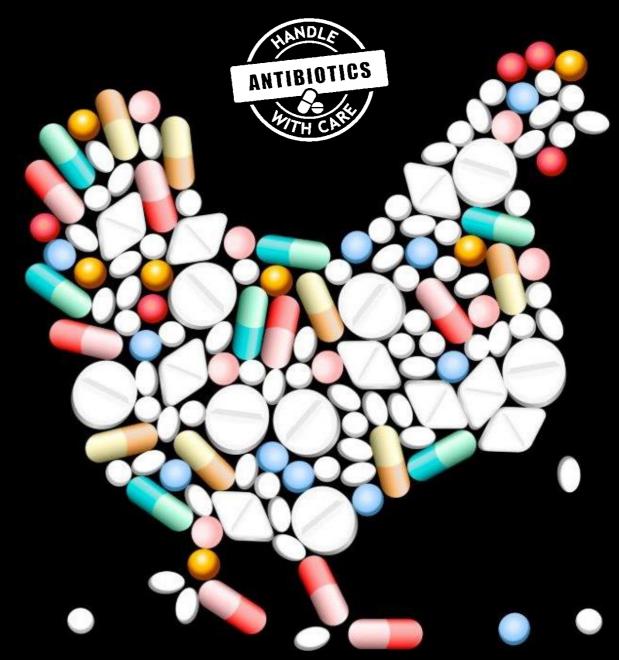


How to reduce antibiotics.

- ✓ Provide safe feed for your animals!
- ✓ Maintain and clean your production process!
- ✓ Promote and apply good practices at all steps!
- ✓ Adopt sustainable systems with improved hygiene, biosecurity and low-stress animal handling!
- Only use antibiotics to control or treat infectious disease!

RÜHLER

- Vaccinate animals to reduce the need for antibiotics!
- ✓ Rethink your own use of antibiotics!



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Thank you for your attention!

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