





Setting the scene

Follow-up of the session co-organized by the Animal Task Force & the EAAP Commission on Livestock Farming Systems EAAP2025 – Innsbruck, Austria

Michael Lee, Harper Adams University







ATF View – Critical role of sustainable livestock





Challenge – Circular Food System Model

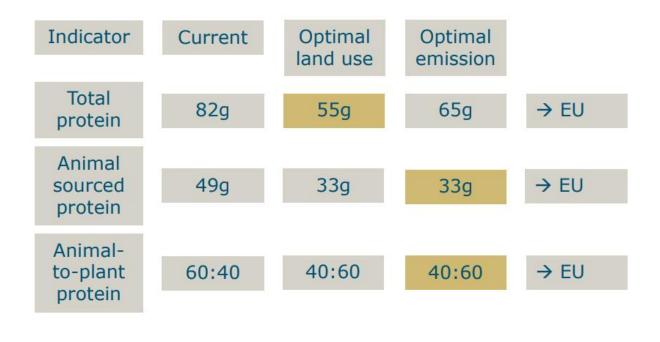
(Wolfram Simon)

Synthesis of dietary changes to reduce impacts



- Reduction of total and animal protein intake
- Reduction of red meat, dairy, eggs, fish and chicken
- Increase of vegetables, nuts and seeds





Nutrient inadequacy below 18 g animal proteins





Improve Genetics

(Clotilde Patry and Eli Grindflek)

Animal Genetics is not only adressing the 3 pillars of sustainability



THE ENVIRONMENTAL BENEFITS OF BREEDING

> Methane emissions reduced by 1% annually

Nitrogen excretion cut by 3.5% every 5 years

POSITIVELY IMPACTING THE ECONOMICS OF FARMS

> 30% less feed usage compared to 30 years ago, boosting environmental and economic outcomes

SOCIAL IMPACT IN OUR FARMS AND COMMUNITY

> High-quality germinal products and breeding animals for diverse farming systems support farmers' livelihoods in European rural and coastal areas

ENHANCING ANIMAL HEALTH AND WELFARE

Animal Welfare traits prioritised Disease resistance enhanced Antibiotic use reduced

From animal health to human health





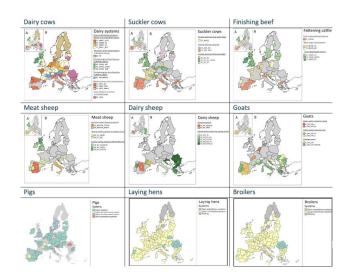




Improve Nutrition

(David Yanez-Ruiz)

- Precision livestock nutrition technology driven + nutrition/physiology
- Environmental efficiency
- Agricultural by-products
- Diversity of feeding systems and environmental impacts







23 COUNTRIES

46 INSTITUTIONS





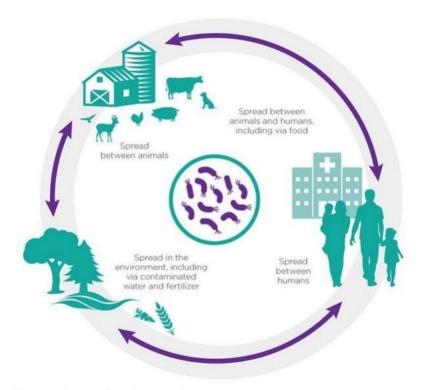




Improve Health

(Charlotte Lauridsen)

Take home message: Future of Livestock Farming Systems – Health



ATF strongly support all research initiatives addressing the One Health approach:

One health (figure) shows the interconnectivity between agriculture and animal production and human health.

One health is defined as a unified approach to optimize the health of people, animals and the environment, under which multiple sectors must collaborate at varying levels [www.who.int]

One Health approach integrated in more domains:

- Animal health and welfare
- Food and nutrition security
- The animal as a system



https://asm.org/Articles/2024/October/Antimicrobial-Resistance-Pandemic-Breaking-Silence?



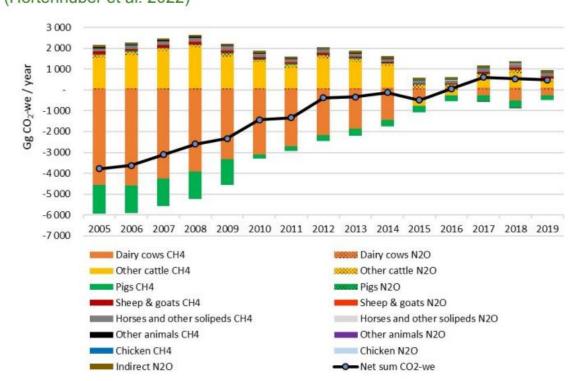
Research Perspectives

(Claire Rogel-Gaillard and Werner Zollitch)



Aim: scientific solutions shaping resilient European policies

Livestock's contribution to global warming: Case study AUT (Hörtenhuber et al. 2022)





Industry and Farmer Perspectives

(Pedro Cordero and Katharina Schobersberger)

- The vision for agriculture acknowledges the importance of the livestock sector in sustainable food systems
- Competitiveness and food security are new priorities, next to environmental concerns and societal expectation (well being, health)
- Urgent need to tackle key vulnerabilities (critical materials as feed additives, proteins, etc.)
- Potential of "feed solutions" to support the vision (footprint, circularity, animal health & welfare)
- Innovation & research to support a resilient livestock sector, and methodologies to quantify the footprint and assess operators' investments (including circularity).
- Critical role of att in the EU Research Agenda on livestock

FEFAC contributions



A vision for the future of livestock farming must:



- The European Control of Transport Partners CEID

 **The European Control of Transport Partners CEID

 **UNION FOR THE FUTURE OF LIVE STOCK

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- 1 Embrace the technical complexity
- 2 Consider the diversity of challenges across sectors, systems and territories
- Give real prospects to the younger generation

