



Sustainable animal and human nutrition: Feeding the future



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- In agricultural development and food production in Western Europe, the period after the second World War can be divided in five phases:
 - 1945-1960: Food security
 - 1960-1980: Rationalisation & modernisation
 - 1980-2000: Consciousness about environment & animal welfare
 - 2000-2010: Food safety & food quality
 - Today and tomorrow: Sustainability & innovation
- Worldwide, every country operates in one of these phases
- Doubling food production while halving the footprint is a challenge that can be met by improving the resource efficiency of animal protein production.
 - We need to empower the farmers to reach the full potential of their animals. Currently 30-40% of their potential production is not reached.
 - Animal nutrition is an essential link between struggling resources and increasing demand. By closing the efficiency gap we can meet the demand sustainably.
 - Essential factors for closing the efficiency gap that can be positively influenced by nutrition are e.g. production level, production quality, animal health, feed-to-food efficiency, longevity and animal welfare.
 - A development that combines all these factors is Sustainable Precision Livestock Farming
 - To sustainably reach the goal of feeding the growing world population, it is important to share knowledge around these themes globally and to apply solutions locally.
 - Key priorities for sustainable development of the livestock sector are:
 - System innovations: efficient and sustainable animal production systems
 - Environmental footprint: responsible raw materials, reduced emissions, closed mineral cycles
 - Market and entrepreneurship: value creation, reduction of volatility
 - Responsible consumption: stimulation sustainably produced animal products, reduction of waste
 - Animal welfare and health: prudent use of antibiotics, responsible transportation, stimulating natural behaviour
 - Societal acceptance: transparent production, interaction farmer – consumer
 - Critical success factors for sustainable development of the livestock sector are:
 - Governance and involvement of all stakeholders, including retail and primary sector
 - Availability of funding for research
 - Level playing field in animal production sector
 - Further development and professionalization of farming