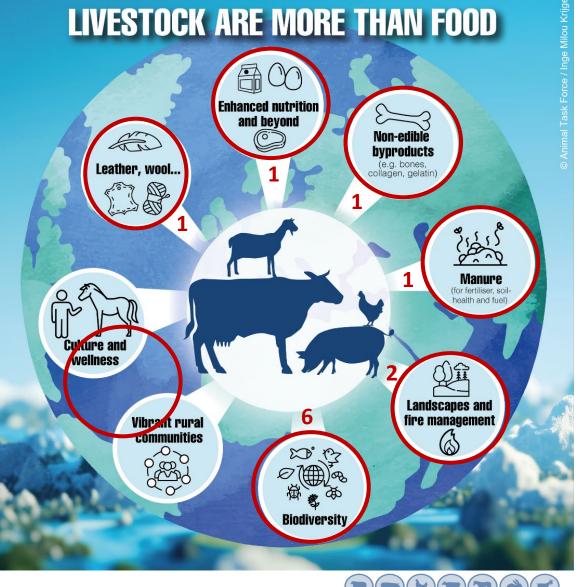


animal task force

A European Public-Private Partnership

atf

- 18 Theater presentations
- Introductory communication setting the scene (Philippe Becquet)
- Presentations on the economic value of animal source foods
- Presentation on societal issues and attractiveness of the sector
- Topics on productivity (3)
- A broad spectrum of "more than food" topics:

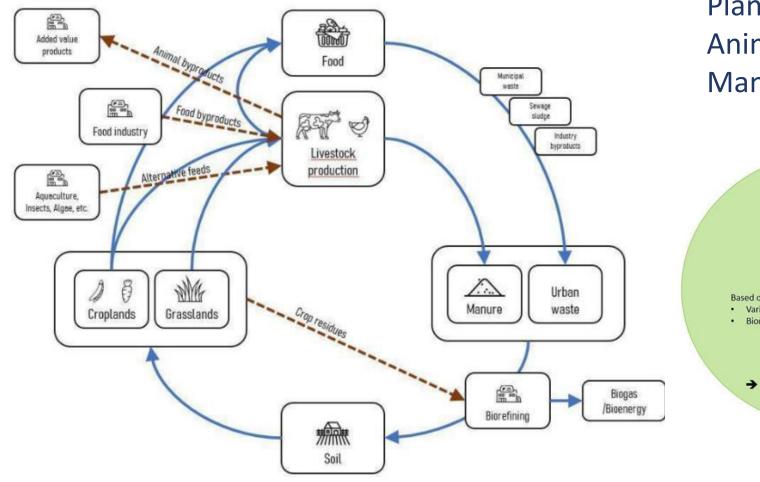


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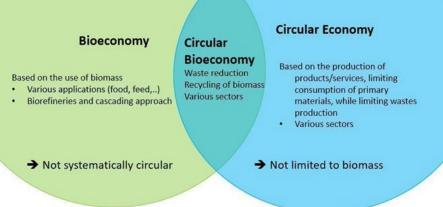


The role of livestock in circular bioeconomy systems

(Philippe Becquet)



Plant Based Co-Products Animal Based Co-Products Manure management and energy



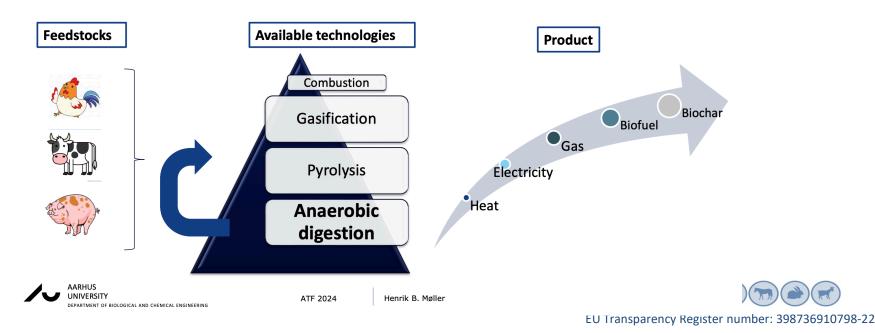




Anaerobic digestion (AD) of manure

(Henrik Bjarne Møller)

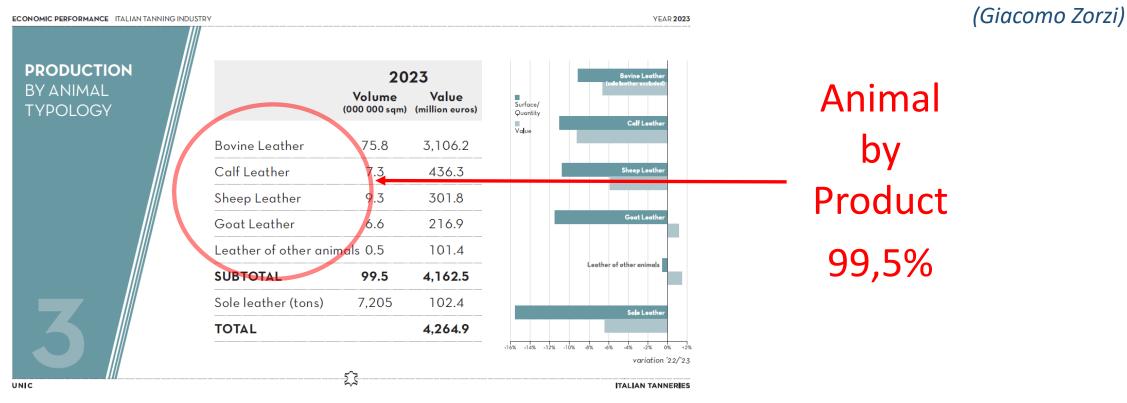
- Animal manure contains large amounts of carbon and nutrients that can be used and transformed into biofuel and fertilizers
- AD is the most developed route for utilization of carbon from animal manure to biofuel
- AD is an important tool to reduce the agricultures carbon foot-print and optimize gain of feed additives, feed and management changes.
- AD can degrade most antibiotics
- AD plays a major role in the transformation of the society



3

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Valorisation of a waste from food industry: Bovine hide to leather"



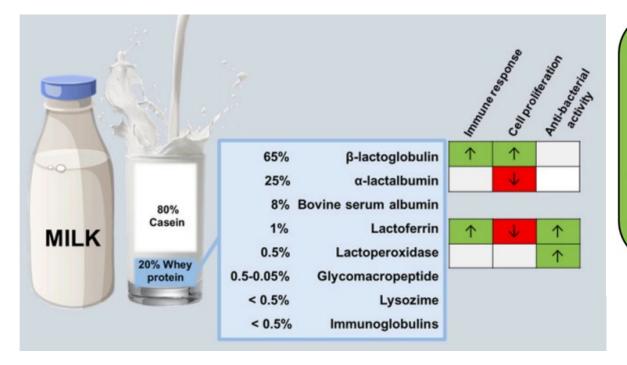
In tanned leather the content of **bio-based carbon** varies between 65% and 98% depending on the type of processing carried out

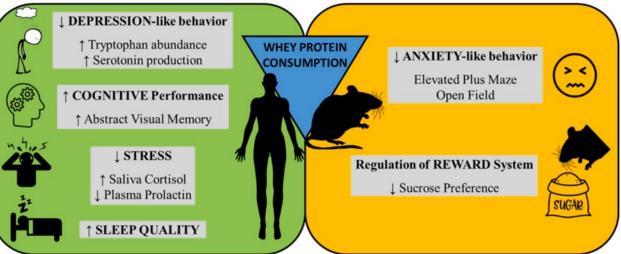




Beyond basic nutrition

(Paul D. Cotter)





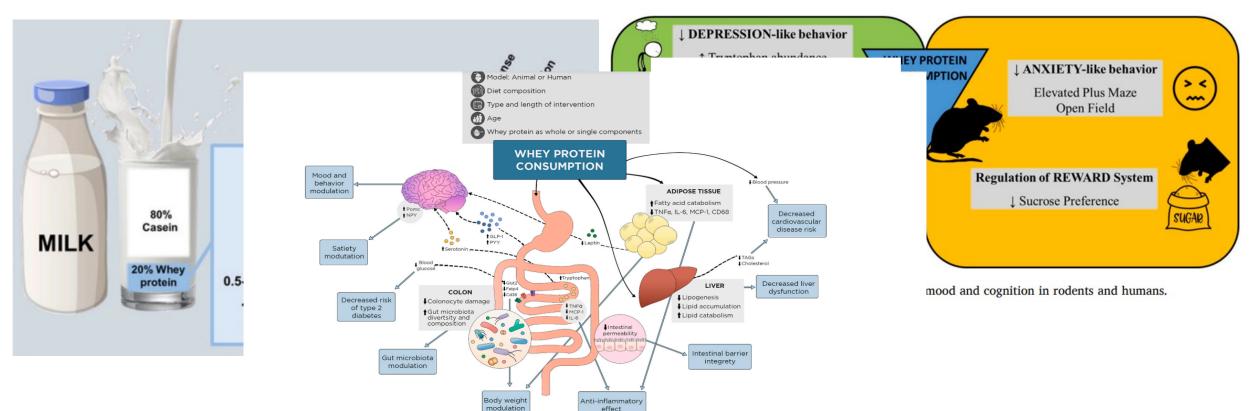
Beneficial effects of whey protein on mood and cognition (as assessed in rodents and humans)





Beyond basic nutrition

(Paul D. Cotter)



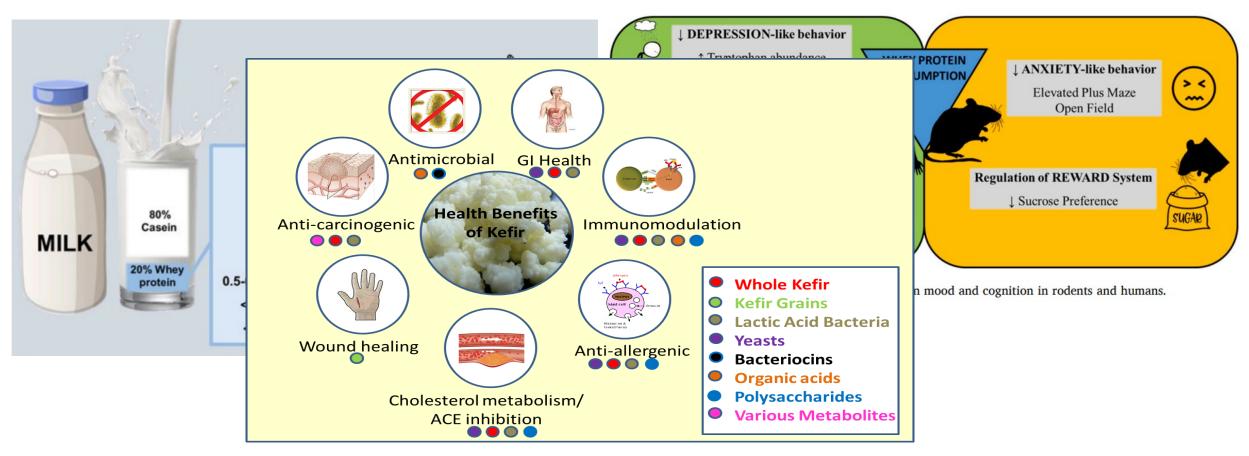
Beneficial effects of whey protein on obesity-related dysfunction and co-morbidities





Beyond basic nutrition

(Paul D. Cotter)



Fermentation: Many putative health benefits but quality of many of the associated publications leaves a lot to be desired



animal task force

Biopolymers of animal origin: production, properties and applications

(Vitaliy Khutoryanskiy)

- Gelatine
- Collagen
- **Proteins**

Polysaccharides

- Insulin
- Chitosan
- Heparin
- Hyaluronic acid

- Several classes of commercially important biopolymers are currently produced using raw materials of animal origin
- biopolymers have found These numerous applications in pharmaceutics, cosmetics, and other biomedical fields
- In some cases, their applications could be further expanded through chemical modification





"Evolving standards: ethical perspectives on animal welfare in agroecology" Sustainable Extensification

(Jacopo Goracci)

of Agriculture

help mitigate existing negative impacts, prevent further depletion of soil organic C, restore ecological equilibrium, enhance biodiversity, and social justice FARMING WITH NATURE & RETERRITORIALIZATION OF AGRICULTURAL ACTIVITIES, BEYOND FOOD SUPPLY FOOD SOVEREIGNTY

Ecological Intensification in Agriculture

improve agricultural production also enhancing agro-ecosystems and ecosystem services

Sustainable Intensification of Agriculture

Agriculture

Traditional

more efficient use of resources to spare future degradation of natural habitat (encouraging water conservation, adopting lowcarbon agriculture, and increasing the efficiency of inputs used on-farm)

Giller et al. (2021) define regenerative agriculture as an approach aiming to combine agroecology and <u>sustainable intensification</u> to face land degradation





Pastoral management and conservation of the cultural landscapes and biodiversity of mountain pastures (Massimiliano Probo & Caren Pauler)

- •Biodiversity
- Food production
- Aesthetic value and touristic attractiveness
- •Cultural heritage (Swiss Alpine pasture season: UNESCO Intangible Cultural Heritage of Humanity)
- •Carbon sequestration and nutrient cycling
- •Wildfire, erosion and flood control
- •Pollination
- •Water purification
- **Development of sustainable silvopastoral systems:** better adaptation to Climate Change, reduction of wildfire risks and provision of different ES





"The representations and attractiveness of livestock farming professions under the influence of societal issues" (Anne-Charlotte Dockès)

LIVESTOCK FARMING FACES THE CHALLENGE OF WORKFORCE RENEWAL

- Farmers are ageing, many retirements are underway
- Need of farmers and farm employees
- Enhancing the attractiveness of farming activities: a necessity and 3 challenges

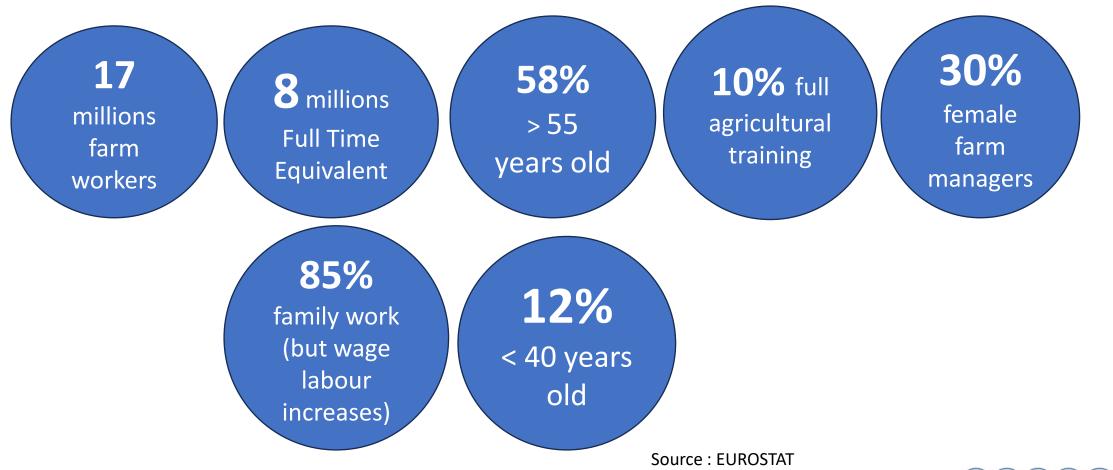






Key figures about EU farm demography

(Anne-Charlotte Dockès)



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French agricultural high school students seek autonomy and

flexibility (Anne-Charlotte Dockès)

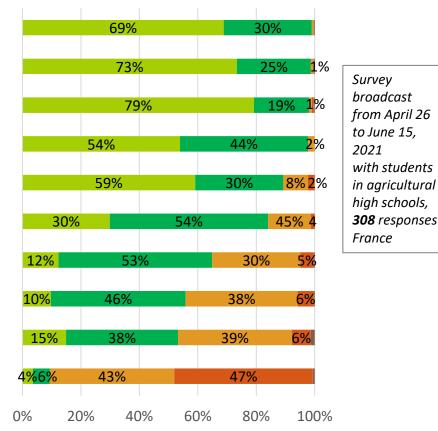
 Livestock careers appear in line with young people in agricultural education

(autonomy, outside work, contact with animals, diversity of tasks, professional sense, etc.)

• But the balance between income and free time does not seem satisfactory to them .

Autonomy Diversity of tasks Working outside Taking responsabilities Being one's own boss Working in teams Being salaried worker Following rules Working alone Working in an office, inside

Could these working conditions make you want to take up a job?



■ Absolutely Yes ■ Rather Yes ■ Rather No ■ Not at all ■ No answer

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Wicked problem? (L. Cembalo)

Wicked: complex problem because there is no agreement on the definition of the problem, nor an obvious approach to solving it (Rittel and Webber, 1973)

To identify a Wicked problem (Alford and Head, 2017):

- Structural complexity
- lack or excess of knowability
- knowability fragmentation
- knowledge framing
- interest differentiation
- power distribution

This problem cannot be resolved by aquiring more data...? No general consensus on how to address it and to navigate the necessary trade-offs





The Animal Task Force online

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