

Animal breeding

more general
includes pet (dogs, ...)

Livestock Breeding

animals on farm
(cow, pig, sheep, goats, ...)

Important: Separation between (Concept)

Production

herd level (farm)

- Livestock to produce goods (milk, meat, ...) that can be marketed
- Main goal: Optimum production with regard to economic efficiency measured by profit (P)

$$P = \text{Revenue} - \text{Costs}$$

- Ex: Dairy Cows
the older a cow, the more efficient

Breeding

breed (Swiss SF)
SF

- From population of animals parents are selected, such that offspring are "closer" to a pre-defined breeding goal.

- Breeding goal (different traits)
 - 1. political

2. scientific

(1) Breeders and customers

(2) Define aggregate genotype based on economic importance of traits

- Young animals as parents are favorable compared to older animals

→ Genomic Selection!