



Genomic management Tools to Optimise Resilience and Efficiency

RESILIENCE

the ability of a cow
to "live to fight another day"

Being able to cope with perturbations
in its environment rapidly returning
to its undisturbed status.

Resilient cows:

- require the least attention from the farmer
- will remain in the herd longer

EFFICIENCY

the extent to which inputs
are converted into
valuable outputs

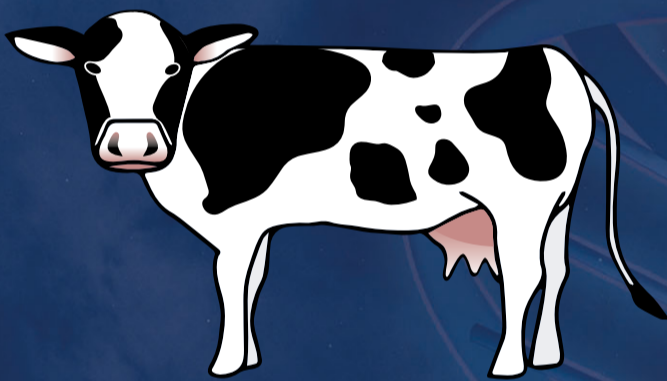
...can be

- Economic: income / costs
- production: kg of product / kg of feed eaten
- at the animal or the farm level

can be measured by:

- 1.FCE (feed conversion efficiency): product / feed intake
- 2.RFI (residual feed intake): estimates cow intake level relative to the herd average after adjusting for its production level and body weight

Efficient cow eats less than expected
(negative RFI) given her performance
level.



What does GenTORE do ?

- Develops ways to measure **resilience** based on data from **on-farm sensor systems**. This data can be used to **assess fluctuations** in performance curves, and thus the animals' response to, and recovery from, environmental disturbances.



- Highlights the importance of measuring **efficiency** over **long enough periods** so that factors such as health and reproductive ability (for adult animals) are included in the efficiency measure.

www.gentore.eu



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 727213.

The sole responsibility of this publication lies with the authors. The European Commission and the Research Executive Agency is not responsible for any use that may be made of the information contained herein.

