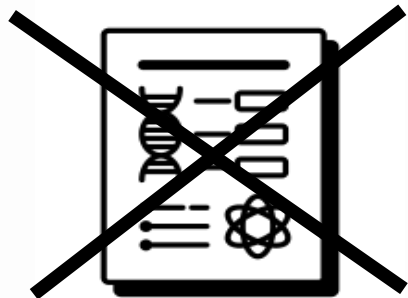


BOAS PRÁTICAS NA PRODUÇÃO SUSTENTÁVEL DE CARNE DE BOVINO



O que é o BovINE?



19 Parceiros
10 Países
255,000 Produtores
2 Milhões euros
3 Anos

Socioeconomic
Resilience



Animal Health
and Welfare



Production Efficiency
and Meat Quality



Environmental
Sustainability



Produtor



Investigador



Nove redes regionais/nacionais

TILL MASTHOFF



AIRI KULVERT



KEVIN KINSELLA



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JERZY WIERZBICKI



JOSÉ PAIS



PAOLA EGUINO



Processo BovINE

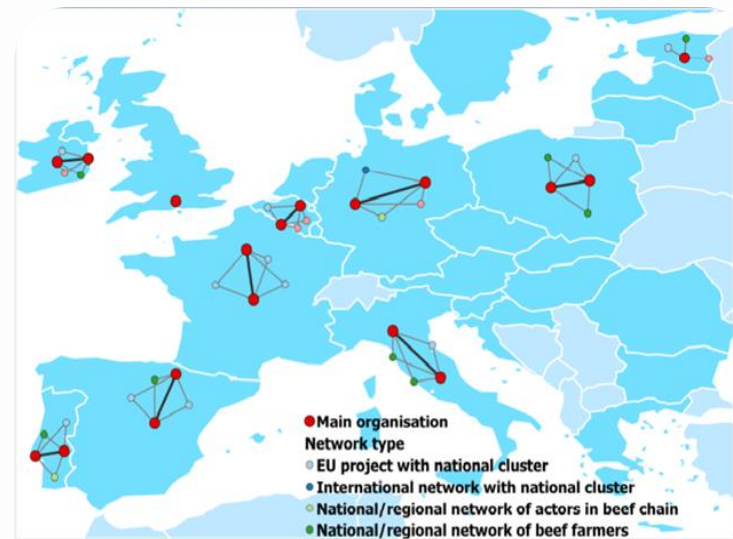
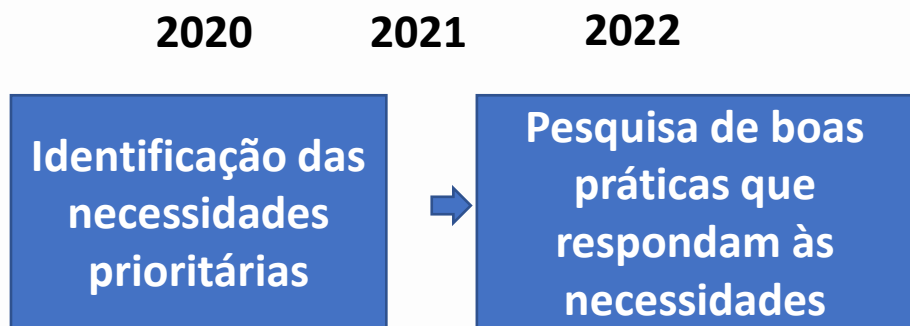
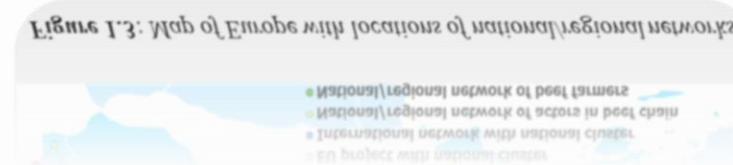


Figure 1.3: Map of Europe with locations of national/regional networks



- Irlanda
- Bélgica
- Alemanha
- França
- Estónia
- Espanha
- Portugal
- Polónia
- Itália

Processo BovINE - Divulgação

BovINE – YouTube Channel



Madigan Squeeze - Bovine.
Video by Martha Stilwell...

3,1 mil visualizações • há 1 ano



BovINE Webinar: Virtual
Fences to Manage Beef...

187 visualizações • há 8 meses



Beef Farm rubber - BovINE,
Germany. Video from Frank...

19 mil visualizações • há 1 ano



Beef Farm Robots BovINE -
Germany. Video from Frank...

4 mil visualizações • há 1 ano

On Farm Demonstrations



Demonstration on-farm
(Portugal) - Automated...

468 visualizações • há 3 meses

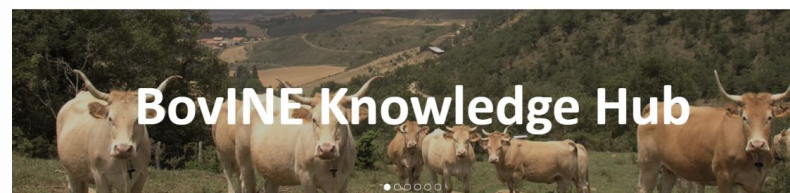


BKH – BovINE Knowledge HUB

<https://hub.bovine-eu.net/>



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Página web – www.bovine-eu.net

Newsletter – <http://www.bovine-eu.net/newsletter-sign-up/>

Plataforma BKH – <https://hub.bovine-eu.net/login>

Twitter – https://twitter.com/bovine_eu

Facebook – <https://www.facebook.com/bovineeu>

Instagram – https://www.instagram.com/bovine_eu

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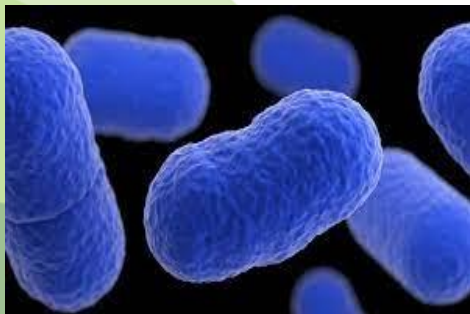


Qualidade da Carcaça e da Carne





Qualidade da Carcaça e da Carne



Plano Preventivo e de Controlo de Microrganismos em Carne de Bovino

- **Necessidade para a Operacionalização do Plano**





Classificação da Qualidade da Carcaça e da Carne

MAS – Meat Standards Australia

- Definição objectiva e transparente da qualidade e do preço ao produtor
- Baseado em painéis de provadores (consumidores) e nos factores que afectam a qualidade do carne do prado ao prato
- Ligação ao programa de produção/selecção



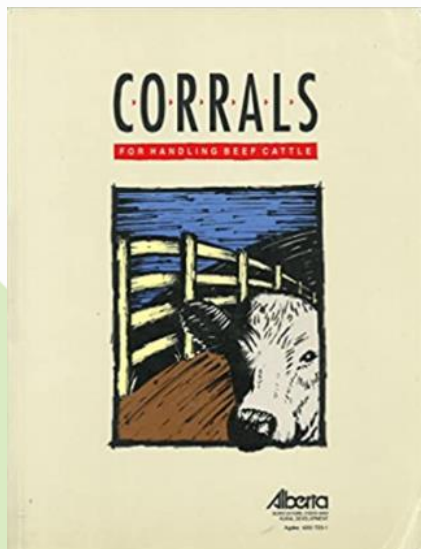
<https://www.mla.com.au/marketing-beef-and-lamb/meat-standards-australia/>

<https://youtu.be/1-slgNKnCZs>





EQUIPAMENTO E MANEIO



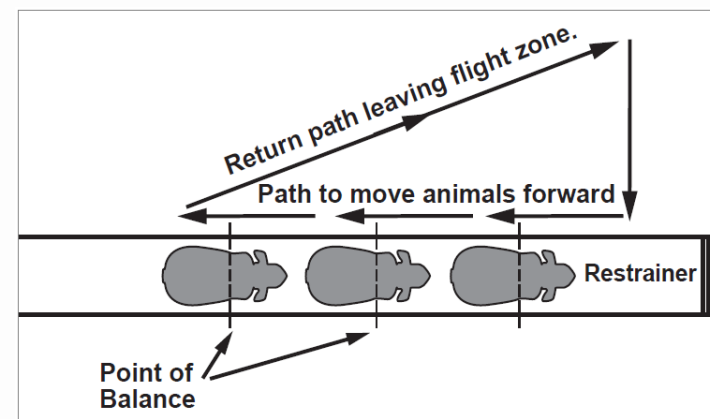
Dr. Temple Grandin's Website



Livestock Behaviour, Design of Facilities
and Humane Slaughter



<https://www.grandin.com/index.html>



Point of Balance Diagram -- Cattle will move forward when the handler passes the point of balance at the shoulder of each animal. The handler walks in the opposite direction along side the single file race.



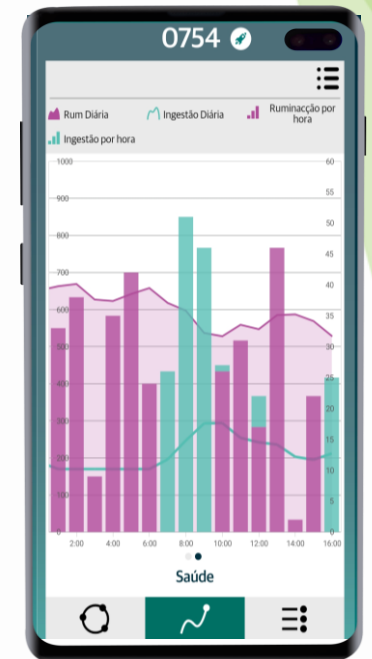
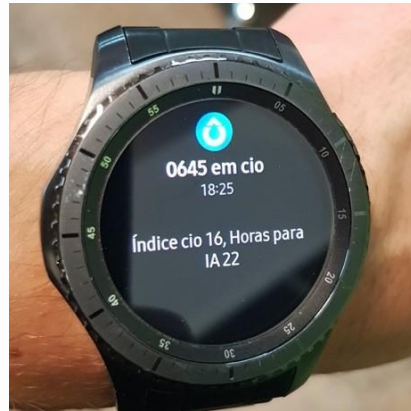
Animal Health
& Welfare



Production Efficiency
& Meat Quality



MONITORIZAÇÃO EM TEMPO REAL



SenseHub Beef

<https://www.youtube.com/watch?v=d0Z7p0ny-nM>

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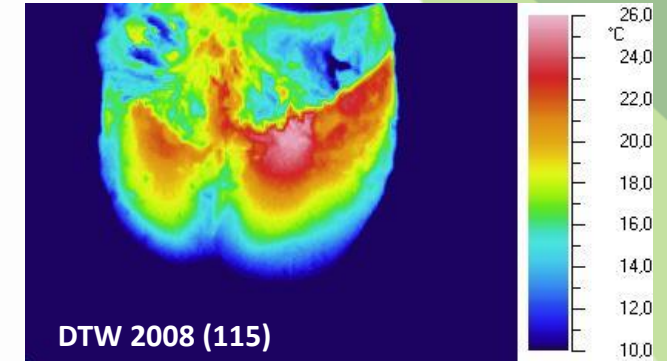




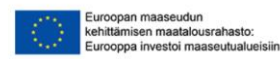
TERMOGRAFIA DE INFRA-VERMELHOS

Diagnóstico problemas podais

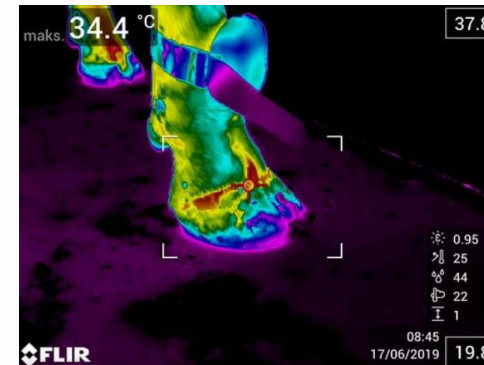
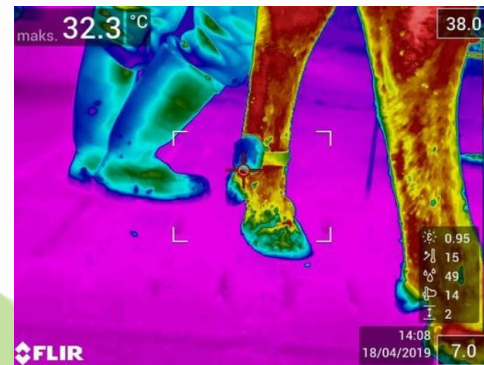
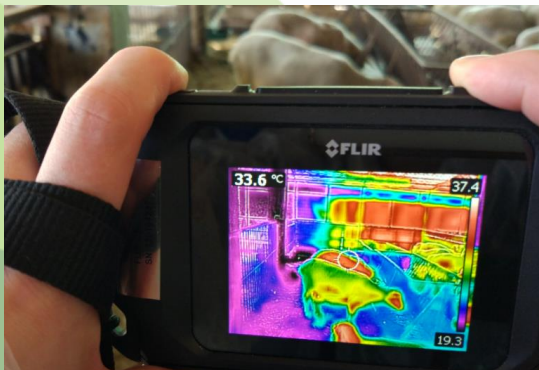
- Identificação de sinais sub-clínicos e inflamações antes da manifestação do problema
- Redução de custos com possível tratamento mais cedo



KUVAA NAUTAA



<https://kuna.savonia.fi/>



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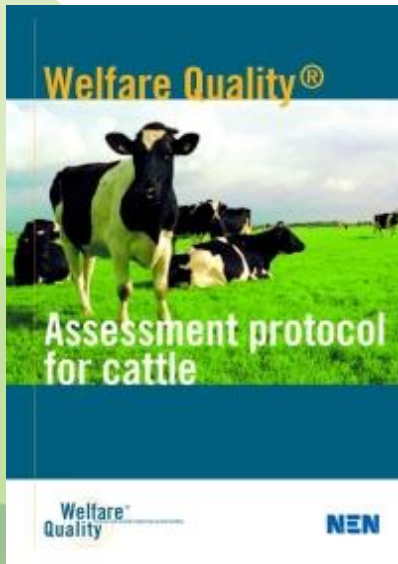




Welfare Quality®

Assessment Protocol for Cattle

Scientific based tools to assess animal welfare applied to fattening cattle farms with intensive housing systems



- Initiatives to improve beef image and to break with the current trend of consumption decline
- Simple labour-saving tools to measure & communicate high animal welfare standards on beef farms



<http://www.welfarequalitynetwork.net/en-us/home/>

Welfare Quality® Assessment Protocol for Cattle

http://www.welfarequalitynetwork.net/media/1088/cattle_protocol_without_veal_calves.pdf

Welfare principles	Welfare criteria	
Good feeding	1	Absence of prolonged hunger
	2	Absence of prolonged thirst
Good housing	3	Comfort around resting
	4	Thermal comfort
	5	Ease of movement
Good health	6	Absence of injuries
	7	Absence of disease
	8	Absence of pain induced by management procedures
Appropriate behaviour	9	Expression of social behaviours
	10	Expression of other behaviours
	11	Good human-animal relationship
	12	Positive emotional state



<https://youtu.be/hmVbGAI-2H4>

- Consumers expect beef production to be done with respect for animal welfare.
- Farms with a high standard of animal welfare can apply to use the WQ certification on the label of their products.

Socioeconomic
Resilience



Production Efficiency
& Meat Quality



Environmental
Sustainability



Agricultura Regenerativa e Gestão Holística do Pastoreio



Maior impacto animal através de períodos de pastoreio menores, em menores áreas de acordo com a produtividade forrageira, seguidos de maiores períodos de descanso sem pastoreio.



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Agricultura Regenerativa e Gestão Holística do Pastoreio

- Cercas eléctricas e pontos de abeberamento do efectivo.
- Melhoria na renovação do montado.
- Melhoria da qualidade do solo.
- Redução de custos na alimentação do efectivo.
- Melhoria no desempenho económico da exploração.

<https://www.agrovete.pt/pt/noticias/artigo-revista-ruminantes-agricultura-regenerativa>





EFICIÊNCIA ALIMENTAR (RFI)

- Controlo individual da ingestão de alimento
- Melhoria do desempenho económico
- Redução das emissões de metano

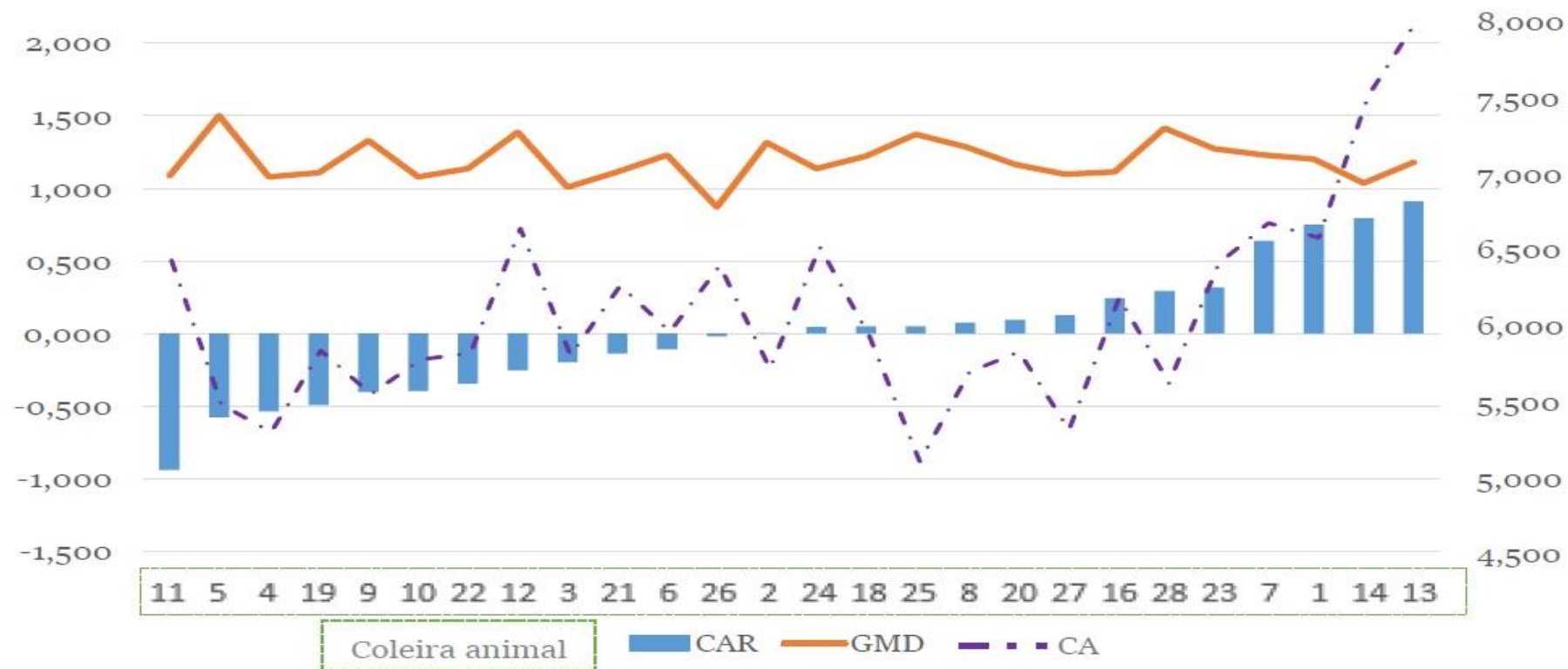


Demonstration on-farm
(Portugal) - Automated...

468 visualizações • há 3 meses



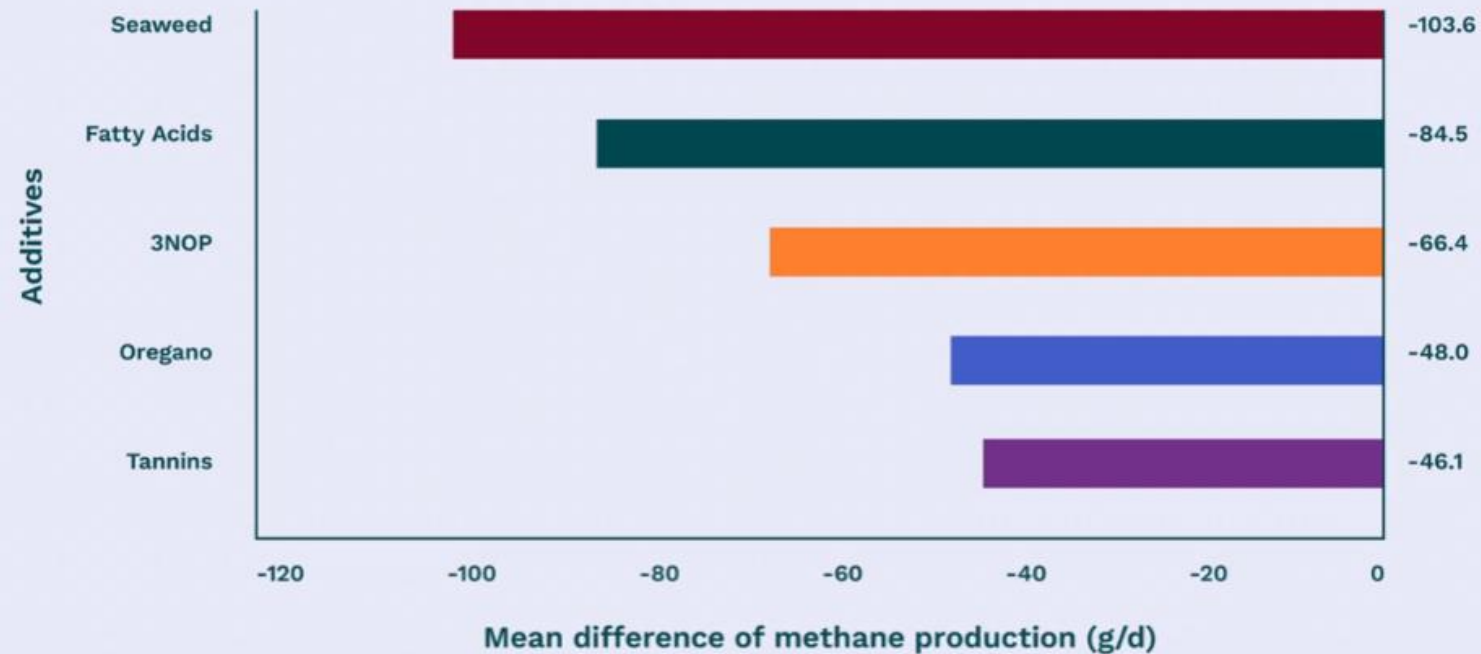
Gráfico 2 - Distribuição do consumo alimentar residual (CAR) de cada novilho em teste distribuídos do mais eficiente ao menos eficiente e os respectivos ganhos médio diário em peso (GMD) e a conversão alimentar (CA).



REDUÇÃO DAS EMISSÕES DE METANO

Aditivos Alimentares

Methane reductions from feed additives



Honan et al., 2021

REDUÇÃO DAS EMISSÕES DE METANO

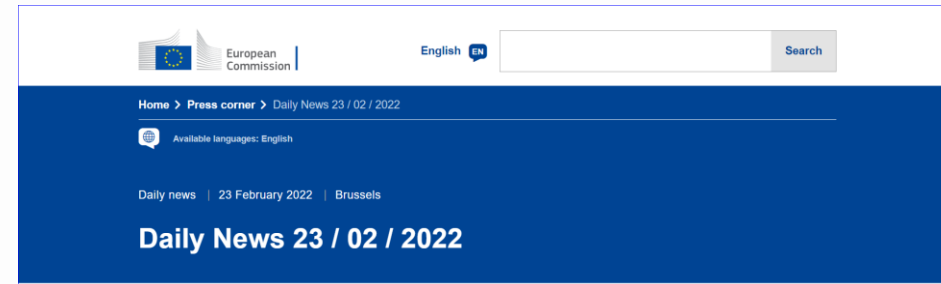
Aditivos Alimentares

What seaweed and cow burps have to do with climate change

Ermias Kebreab

TED Ideas worth spreading

WATCH DISCOVER



Farm to Fork: Innovative feed additive will reduce methane emissions from dairy cows in the EU

Today, Member States have approved the marketing in the EU of an innovative feed additive, as proposed by the Commission. The additive, consisting of 3-nitrooxypropanol, will help to reduce the emission of methane, a potent greenhouse gas, from cows. Commissioner for

REDUÇÃO DAS EMISSÕES DE METANO

Incorporação de Algas em Planos Alimentares

- Todo o tipo de algas (vermelhas + promissoras) / Produção em cordas no oceano
- Estudos apontam para redução de 40% das emissões de CH₄ com incorporação de 0,1% na mistura alimentar (TMR), sem alterações na ingestão de MS, no funcionamento do rúmen, ou na qualidade da carcaça e da carne.
- Melhorias no GMD e redução de problemas de saúde nos animais





AUMENTAR A AUTONOMIA DA EXPLORAÇÃO

Adaptar o Sistema produtivo e a dimensão do efectivo ao potencial produtivo da exploração de alimento.

- Menor dependência do mercado e dos preços.
- Adaptação às alterações climáticas = Melhor desempenho económico & Redução das emissões provenientes do transporte de alimentos.





Q
Search

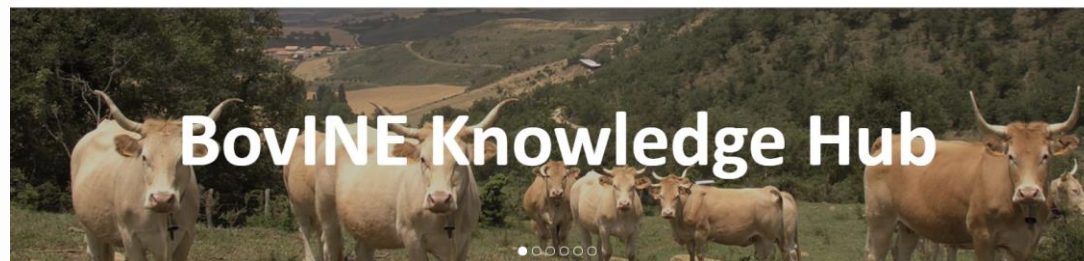


BovINE
BEEF INNOVATION NETWORK EUROPE

Acesso livre para consulta

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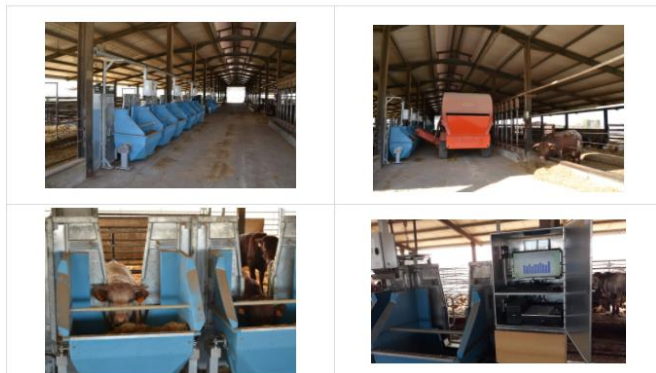




Automated individual data for improving feed efficiency in Mertolenga cattle

Mon 23rd Nov, 2020  Virginia Resconi  [Glossary](#) [Feedlot](#) [Residual feed intake](#)  Content Type: Good Practice

A common challenge for beef cattle farmers is the high production costs, which could be minimised by improving feed efficiency; this would also minimise the environmental impact of beef production. That is why the association of Mertolengos Bovine Breeders (Associação de Criadores de Bovinos Mertolengos) in Portugal installed nine units of the Roughage Intake Control (RIC) system from HoloFarm Group (the Netherlands) in their Performance Testing Station, aiming to automatically collect individual data for feed intake. The data they gathered supports the selection of future breeding bulls and thus to genetically improve the efficiency of the Mertolenga population. Therefore, this innovation is related to three BovINE themes: Socioeconomic Resilience by reducing feeding costs and Production Efficiency and Meat Quality and Environmental Sustainability by improving feed efficiency.



On the H. dos Currais e Simalhas farm, where this good practice takes place, nine RIC feeding units are divided among three groups of animals, with the capacity to serve 45-50 animals simultaneously. The feeding system management uses one horizontal unfilled mixer; the automatic feeding trough is filled daily (as shown in the photo) with the desired nutritional feed profile, as specified by the technical support. All animals are identified electronically with a collar and each trough has an antenna and scales. When an animal enters the trough or steps out after eating, the system registers the date and time (hh:mm:ss) as well as the weight of the feed eaten. The software exports a data file with the feed intake of each young bull daily. All animals are also manually weighed every three weeks with an electronic scale from Iconix. The residual feed intake (RFI) is then calculated and considered as a trait in the selection of the breed, performed by a genetic expert from the National Institute for Agrarian and Veterinary Research (INIAV) in Portugal.

Consistent application of body condition scoring can make a valuable contribution to successful suckler cow management - not only for avoiding dystocia

Thu 23rd Jul, 2020 [Frank Zerbe](#) [health](#) [feeding](#) [animal monitoring](#)  Content Type: Good Practice

Calving difficulty and stillbirth are challenges for the beef industry. Prevention and appropriate management will decrease mortalities for cows and calves, which will increase profit revenues and improve animal welfare.

Among the risk factors for dystocia before calving are increased **body condition scores (BCS)** and weight gain.

Several scientific studies show that there is a direct link between the BCS of the suckler cow and the risk of dystocia. For example, cows with an increased BCS (above optimum) are more likely to give birth to calves with an increased birth weight that can lead to birthing difficulties. Therefore, the regular monitoring of the body condition and an appropriate feeding can help to reduce dystocia in cow-calf herds.

Body condition scoring is a well-known procedure that can be easily implemented.

Applying the scoring system requires however some practice and experience. Especially when using the scoring system for the first time, it should be implemented by at least two different assessors and the results should be compared. Then on a day-to-day basis, it is preferable that always the same person assesses the body condition of a cow. From time to time it is also advisable to have an external person assesses the herd to avoid an "operational blindness".



(For more information about body condition scoring go to: <https://www.teagasc.ie/media/website/animals/beef/feeding-the-suckler-cow.pdf>)

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26 idiomas

 **Traduzir ficheiros**
.pdf, .docx, .pptx

Detetar idioma ▼

Português ▼

formal/informal ▼

Glossário

Escreva ou cole o texto aqui.
Arraste um documento até aqui para o traduzir. Formatos disponíveis: PDF, Word (.docx) e PowerPoint (.pptx).

Clique numa palavra para a procurar.

Para informação adicional sobre o projecto BovINE contacte-nos:

magdaaguiar@fmv.ulisboa.pt

ou

pais@mertolenga.com

Página web – www.bovine-eu.net

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Obrigado pela atenção

