



**ENCONTRO NACIONAL DE  
DEFESA SANITÁRIA ANIMAL**

**ENDESA 2017**

**SERVIÇO VETERINÁRIO BRASILEIRO: EM BUSCA DA SUSTENTABILIDADE**



**Belém/PA - 04 a 08 de dezembro**



# **‘ONE HEALTH, ONE WELFARE’ ‘SAUDE UNICA, BEM-ESTAR UNICO’**

**Dr. Rebeca García Pinillos**

**Endesa 2017 - Belem 5 Decembre 2017**

 **@onewelfare**

 **onewelfare**

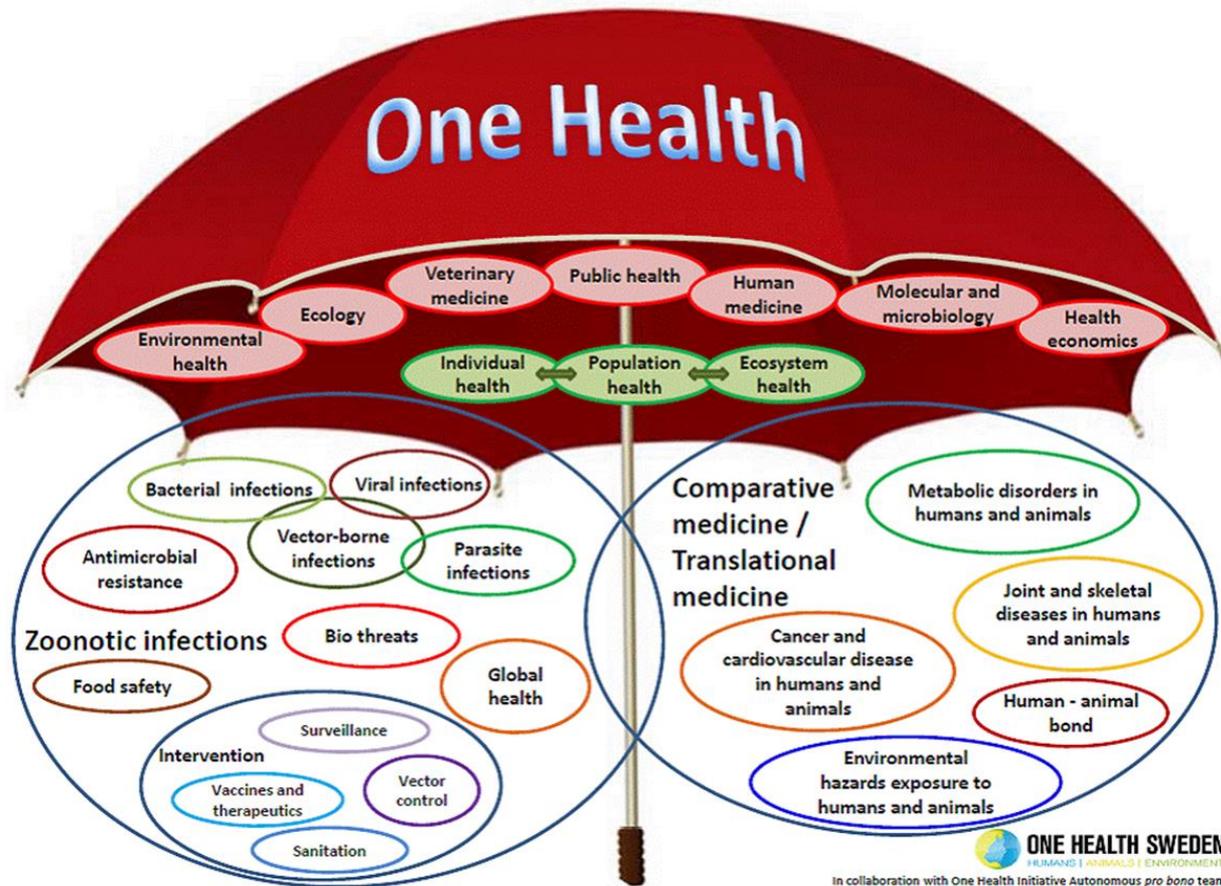
**[www.onewelfareworld.org](http://www.onewelfareworld.org)**

# OBJETIVOS



- Saúde única / One health
- Bem-estar único / One Welfare
- Marco 'Um bem-estar'

# SAUDE UNICA – ‘ONE HEALTH’



# SAUDE UNICA – ‘ONE HEALTH’

 Association of Government Veterinarians (AGV)  
United Kingdom 

**“One Health, One Welfare:  
The Role of Vets in Society”**



## Main Activity for One Health

AGV promotes the wider role of vets within society through the concepts of One Health and One Welfare. AGV has worked in collaboration with the Veterinary Public Health Association and the London Vet Show to help disseminate the role of One Health and One Welfare in the veterinary profession sponsoring speakers at three separate conferences. The talks were set up in the context of how veterinary professionals can help support society and the UN Sustainable Development Goals. In particular AGV is keen to help raise awareness of the One Welfare concept as complement to One Health.

AGV has collated the UK Government Veterinary Services contributions to One Health as part of its membership within the BVA One Health working group. We are currently preparing a conference, “Embracing Innovation”, to stimulate innovation within the profession, underpinned by the concepts of One Health and One Welfare.



## Brief Description of Organization

|                    |  |
|--------------------|--|
| Date of Foundation | 1979   |
| President          | Kate Sharpe  |
| Address            | kate.sharpe1@homeoffice.gsi.gov.uk                 |
| Website            | <a href="http://www.agv.org.uk">www.agv.org.uk</a> |



AGV is a specialist Division of the British Veterinary Association (BVA) representing the views of veterinarians working in UK Government Departments and Executive Agencies. The Objects of the Association are: The advancement of Veterinary Science; The discussion of scientific subjects relating to the theory and practice of State Veterinary Medicine and the establishment and promotion of goodwill and understanding among its members, and with other members of the veterinary profession.



**Association of Government Veterinarians  
United Kingdom**

## Examples of One Health UK initiatives including Government Veterinarians

### 1. Zoonoses work

**1.1 Human and Animal threats and vulnerabilities Risk Surveillance groups - Human Animal Infections and Risk Surveillance (HAIRS) group - chaired by Public Health England and Veterinary Risk Group (VRG) – chaired by Animal and Plant Health Agency.**

#### 1.1.1 Human Animal Infections and Risk Surveillance (HAIRS) group

The Human Animal Infections and Risk Surveillance (HAIRS) group was formed in 2004. It is a multi-agency and cross-disciplinary horizon-scanning group, chaired by the PHE Emerging Infections and Zoonoses section. This group demonstrates the benefit of effective collaboration and emphasises the wide role that vets, scientists and medics in Government roles play by having vision and using contacts and influence to bring involved groups together for a common purpose. Members include representatives from:

- Public Health England
- Department for Environment, Food and Rural Affairs
- Animal and Plant Health Agency
- Department of Health
- Public Health Wales
- Welsh Government

<https://www.agv.org.uk/agv-resources/>



Garcia Pinillos et al. Veterinary Record 2016, 179: 412-413

<http://veterinaryrecord.bmj.com/content/179/16/412/DC1/embed/inline-supplementary-material-1.pdf>

# PROPOSTA - ESTRUTURA 'UM BEM-ESTAR'

Melhor bem-estar animal -  
melhor bem-estar humano

Redução do abuso animal e  
humano

Melhor bem-estar animal -  
melhoria de problemas sociais

Melhor bem-estar animal - melhoria  
da pobreza e apoio comunitário

Relação entre o bem-estar dos  
animais e segurança alimentar

Melhor bem-estar animal -  
melhores oportunidades de vida

Projetos multidisciplinares

Melhor bem-estar da fazenda -  
melhor produtividade

Melhor bem-estar animal -  
melhor segurança alimentar e  
sustentabilidade

Melhor biodiversidade - melhor  
bem-estar humano

# ESTRUTURA 'BEM-ESTAR UNICO'



33 countries

OIE workshop

Defra Workshop

183 respondents

Environment  
Medical  
AW consultants  
Animal ethics  
One Health  
International Development  
Equine welfare  
Philosophy of medicine and ethics  
Legal  
Pastoral support of farming families

5.81%  
Public Health

54.84%  
Vets

3.87% AW  
campaigner

10.97%  
Behav.

2.58%  
Conservation

7.10%  
welfare  
scientist

# ESTRUTURA 'BEM-ESTAR UNICO'



**33  
countries**

GB  
Spain  
Ireland  
Portugal  
France  
Germany  
Belgium  
Croatia  
Serbia

Finland  
Sweden  
Slovenia  
Israel  
Italy  
Jersey  
Luxembourg  
Netherlands  
Hungary

Malta  
Australia  
New Zealand  
Kenya  
South Africa  
Colombia  
Singapore  
Turkey

US  
Brazil  
Costa Rica  
Chile  
Mexico  
Uruguay  
Canada  
India

# ESTRUTURA 'BEM-ESTAR UNICO'

Definição (171 replied, 12 skipped)

Um bem-estar é o termo usado para descrever a interconexão entre o bem-estar animal, humano e ambiental. Complementa e se sobrepõe parcialmente com o termo Saude Unica

71.35%  
(122)

23.98%  
(41)

4.68%  
(8)

# Option 1 – The One Welfare Framework



**SECTION 1**  
Addressing  
animal and  
human abuse  
and neglect.

**SECTION 2**  
Interventions  
for improved  
animal  
welfare and  
social issues.

**SECTION 3**  
Improved animal  
welfare,  
addressing  
poverty and  
local community  
support.

**SECTION 4** Farm  
animal  
welfare, food  
policy,  
environmental  
protection  
and  
sustainability.

**SECTION 5**  
Rescue,  
rehabilitatio  
n and  
improved  
life chances.

**SECTION 6**  
Improved  
biodiversity  
conservation,  
environmental  
aspects and  
human  
wellbeing.

## Option 2 – The One Welfare Framework



SECTION 1  
Addressing  
animal and  
human abuse  
and neglect.

SECTION 2  
Interventions for  
improved animal  
welfare and  
social issues.

SECTION 5  
Improved  
biodiversity  
conservation,  
environmental  
aspects and  
human  
wellbeing.

SECTION 3  
Farm animal  
welfare, food  
policy,  
environmental  
protection and  
sustainability.

SECTION 4  
Rescue,  
rehabilitation  
and improved  
life chances.

# ESTRUTURA 'ONE WELFARE'

## Redução do abuso animal e humano (família e social)

Quem maltrata animais tem uma maior tendência para maltratar pessoas vulneráveis em seu ambiente

Assassinos da prisão com história de abuso animal

# ESTRUTURA 'UM BEM-ESTAR'

## Melhoria do bem-estar animal - melhoria da pobreza e apoio comunitário

Sem teto

Eles contribuem para o seu bem-estar  
Eles fornecem apoio emocional  
Uma razão para viver  
Reduzir o crime

Cães

Mais saudável  
Menos obesidade  
Menos separação por ansiedade  
Menos agressão

Ref: WILLIAMS, D. L. & HOGG, S. (2016) The health and welfare of dogs belonging to homeless people. *Pet Behaviour Science Open Journal* 1, 23-30 AND TAYLOR, H., WILLIAMS, P. & GRAY, D. (2004) Homelessness and dog ownership: an investigation into animal empathy, attachment, crime, drug use, health and public opinion.

# ESTRUTURA 'UM BEM-ESTAR'

Relação entre o bem-estar dos animais e a segurança alimentar

Quanto maior o estresse, maior o derrame bacteriano de Escherichia coli, Salmonella ou Campylobacter

Estudo no Reino Unido de Campylobacter em cegos de frango - relacionado ao aumento da confisco por pododermatite

# ESTRUTURA 'UM BEM-ESTAR'

## Projetos multidisciplinares

"Climate change, extreme poverty and hunger must be addressed together. And promoting sustainable agriculture is key to doing so."

*José Graziano da Silva, FAO Director-General*



Food and Agriculture Organization  
of the United Nations

#SOFA16 #ClimateChange  
[fao.org/publications/sofa](http://fao.org/publications/sofa)

## ESTRUTURA 'UM BEM-ESTAR'

Melhor bem-estar da fazenda - melhor produtividade

O bem-estar do criador está correlacionado com o bem-estar de seu gado

Um melhor bem-estar animal gera margens melhores - o controle da manqueira no gado leiteiro acompanha a maior produção de leite

# ESTRUTURA 'BEM-ESTAR UNICO'



## Projetos multidisciplinares

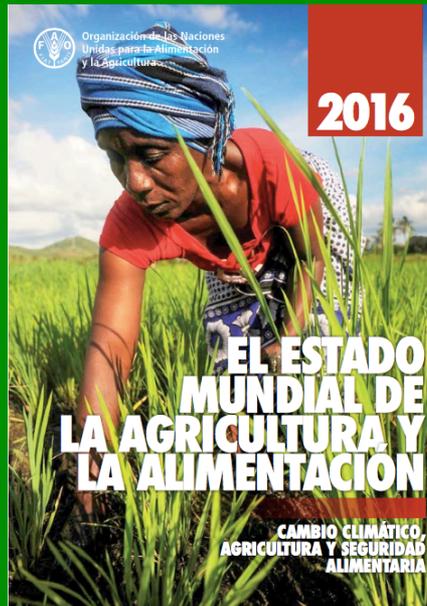
Criação de um mecanismo de alerta entre o bem-estar do criador - bem-estar da gado

Estabelecimento de links de comunicação entre diferentes organizações

# ESTRUTURA 'BEM-ESTAR UNICO'



Melhor bem-estar animal - melhor segurança alimentar e sustentabilidade



<http://www.fao.org/publications/sofa/2016/es/>

# ESTRUTURA 'BEM-ESTAR UNICO'



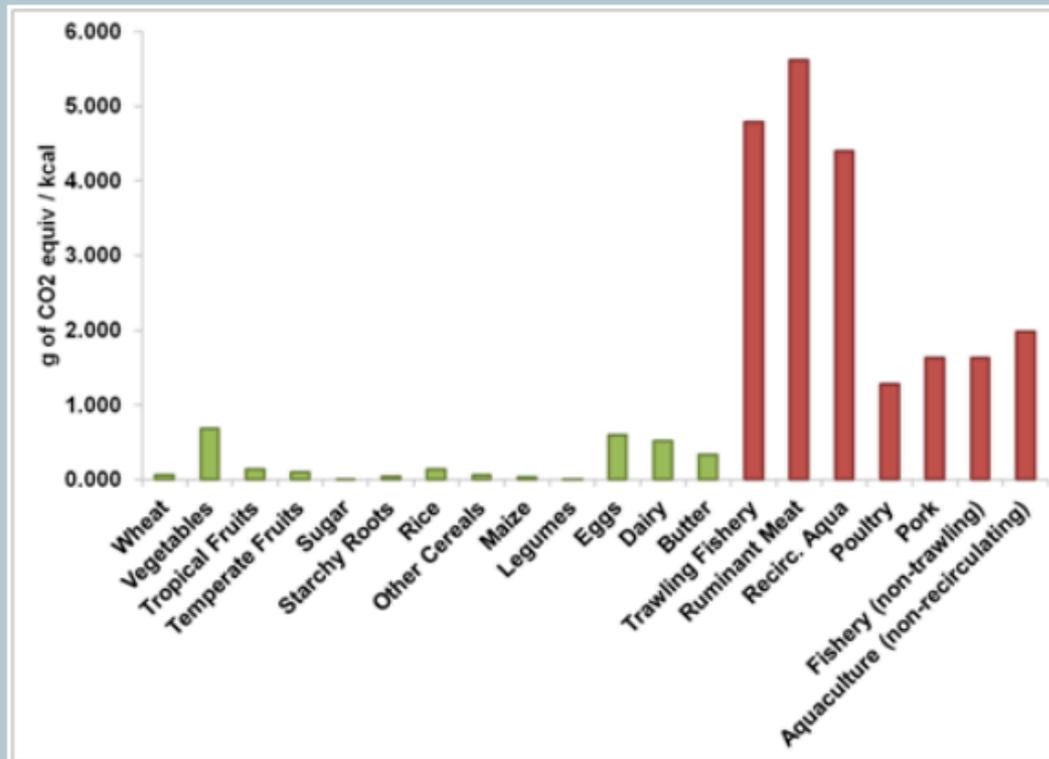
## Melhor bem-estar animal - melhor segurança alimentar e sustentabilidade

productividad. En el sector ganadero, la adopción generalizada de prácticas sostenibles podría reducir las emisiones de metano del ganado hasta un 41 % y aumentar también la productividad mediante la mejora de la alimentación y la salud de los animales y de la gestión de la estructura de los rebaños. Sin embargo, la adopción de estas

# ESTRUTURA 'BEM-ESTAR UNICO'



## Emission of greenhouse gasses – types of food



Source: Tilman, David og Michael Clark 2014, 518–522



# ESTRUTURA 'BEM-ESTAR'



Intervenções para reduzir os impactos das mudanças climáticas

- Impacto no gado e produtores:
  - Stress por calor - animais mais vulneráveis a doenças
  - Redução da fertilidade
  - Redução da produtividade
- Impacto nos oceanos
  - Aumento da temperatura da água
  - Extinção de certas espécies
  - Modificação do habitat
  - Risco aumentado de doenças

# ESTRUTURA BEM-ESTAR UNICO



Se pueden lograr mejoras significativas con la introducción de prácticas agrícolas sostenibles. Los pequeños agricultores necesitan ayuda para acceder a tecnologías adecuadas e implementarlas.

## RESPUESTA AL CAMBIO CLIMÁTICO

La **innovación** es clave para la adaptación de los sistemas agrícolas.

### Algunos ejemplos de prácticas agrícolas sostenibles



Cultivos eficientes en el uso de nitrógeno



Labranza cero



Cultivos resistentes al calor



Agricultura de precisión



Gestión integrada de la fertilidad del suelo



Ordenación mejorada de pastos



Gramíneas forrajeras o leguminosas mejoradas



Depredación natural de plagas y reducción de plaguicidas



Cultivos resistentes a las sequías



Riego por goteo



Captación de aguas y riego por aspersión

<http://www.fao.org/publications/sofa/2016/es/>

# ESTRUTURA 'BEM-ESTAR UNICO'



Melhor biodiversidade – melhor bem-estar humano

Un mayor número de aves en una zona concreta tiene un impacto positivo en el bienestar humano de esa zona

La pérdida de biodiversidad puede tener un impacto negativo en nuestro bienestar

# ESTRUTURA 'BEM-ESTAR UNICO'



Food and Agriculture Organization of the United Nations

## LIVESTOCK DIVERSITY HELPS COPE WITH CLIMATE CHANGE

Livestock diversity or **animal genetic resources** are terms used to describe the pool of **38 species** of domesticated birds and mammals with more than **8 800 breeds** currently used for food and agriculture.

**Did you know?**  
There are 800 breeds of cattle in the world, each with different valuable traits



### LIVESTOCK ADAPTIVE TRAITS

Thrive on poor quality feed



Tolerate extreme temperatures



Tolerate or resist diseases



Tolerate drought



Walk long distances for water or food



Produce meat, eggs, and milk, even under stressful conditions

### WHAT ARE THE BENEFITS FOR PEOPLE

Increase resilience to hazards including drought, floods and disease

Allow lands where no crops can grow to be productive

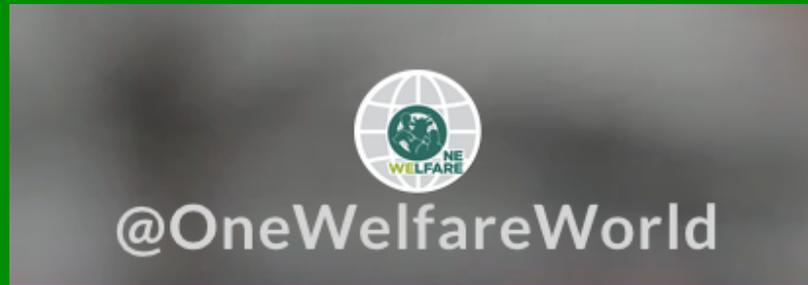
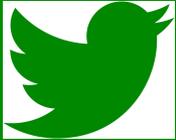
Allow for relocation of species or breeds better adapted to harsh climatic conditions

Form and maintain landscapes through grazing and manure fertilization, while facilitating biodiversity

Provide diverse income and food sources for millions of people



# 'ONE WELFARE WORLD'



**One Welfare World Schedule**

Today: ◀ ▶ Week Month Agenda

| Mon   | Tue | Wed | Thu   | Fri | Sat   | Sun |
|---|-----|-----|-------|-----|-------|-----|
| 29  | 30  | 31  | Jun 1 | 2   | 3     | 4   |
| (11:00pm) Brussels - Valentina Rivas, Public Affairs Officer at Donkey Sanctuary                                  |     |     |       |     |       |     |
| 5   | 6   | 7   | 8     | 9   | 10    | 11  |
| Melbourne - Dr. Anne Fawcett, Vet, Human Animal Research Network and Lecturer in Veterinary Science at Sydney Uni |     |     |       |     |       |     |
| 12  | 13  | 14  | 15    | 16  | 17    | 18  |
| Buenos Aires - Jimena Mangas - Animal Welfare Professor and Veterinarian, Buenos Aires University                 |     |     |       |     |       |     |
| 19  | 20  | 21  | 22    | 23  | 24    | 25  |
| Ploufragan, France - Bas Rondenburg, Associate professor at Wageningen University                                 |     |     |       |     |       |     |
| 26  | 27  | 28  | 29    | 30  | Jul 1 | 2   |
| England - Clare Andrews, Behavioural & animal welfare scientist, Newcastle University                             |     |     |       |     |       |     |

# Estructura 'Bem-estar unico'



1. Consulta global
2. Workshops y webinar para revisar los resultados
3. Redacción del libro y revisión por expertos en las diferentes materias a nivel mundial.
4. Publicación del libro por CABI – Marzo 2018
  - Libro electrónico gratuito
  - Crowdfunding - *link en la web/ facebook/twitter*

# 'Bem-estar unico' – CONCLUSÕES



Identificar e reconhecer a conexão entre o bem-estar animal, humano e ambiental

Desenvolver colaborações  
**'Saude unica Bem-estar unico'**  
para maximizar os benefícios sociais  
Colaborações entre veterinários / serviços sociais / serviços de saúde pública

Introduzir  
**#onewelfare**  
**#umbemestar**  
em publicações

# Agradecimientos



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 onewelfare

[www.onewelfareworld.org](http://www.onewelfareworld.org)

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AGRICULTURA, PECUÁRIA  
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