

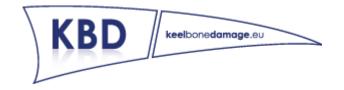
WG3 – Identifying Sources of KBD and Interventions

Bas Rodenburg Mirjana Đukić Stojčić



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Objectives WG3



- WG3a Determine causes of KBD in varying systems
 - Cage systems: role of perches
 - Non-cage systems: risk of collision
- WG3b Developing intervention strategies for the laying hen industry

Intervention strategies

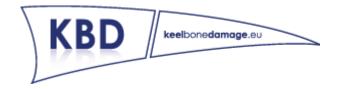


Interventions will be broadly classified into three categories:

- 1. Housing and management
- 2. Genetics
- 3. Nutrition

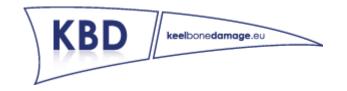
Deliver various options that producers can determine most appropriate given their individual, local, and national priorities: <u>application</u>

European network



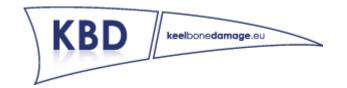
- Opportunities to learn from each other:
 - Some countries mainly cage housing, others non-cage systems
 - KBD is high on the agenda of welfare issues in some countries, not (yet) in others
 - Differences between countries: low incidence of KBD in Danish flocks? Why?

Reducing KBD in practice



- Ultimate goal of reducing KBD: develop innovations that have a solid scientific basis AND are attractive to producers
 - Close collaboration academic research and industry
 - Attention for uptake of innovations (workshops, technical leaflets)
- Inclusion of industry partners will allow for developments to be applied directly, leading to a strengthened industry, more capable of meeting the high standards of the European community

Recommendations workshop



- 4 Investigate the role of bird development in KBD susceptibility
- 5 Investigate the role of escape reactions as a source of KBD
- 6 Investigate genetic capacity to reduce KBD
- 7 Investigate housing adaptations that affect frequency of KBD
- 8 Investigate nutritional solutions to reduce KBD

(Harlander-Matauschek et al., World's Poultry Science Journal, 2015)

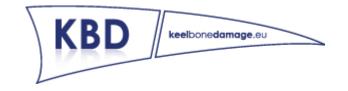
First STSM



• Janja Sirovnik from UoBern to Wageningen University

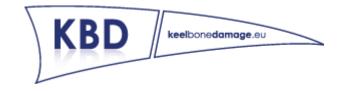
- Data analysis pilot study effect of light during incubation on chick development and bone development
- Proposal for post doc project on optimising incubation and early-life conditions to minimise the risk of KBD (BrightStart project)

Activities WG3



- Inventory ongoing research and interested parties
- Investigate possibilities to create new European collaborations
 - Connect ongoing national projects
 - Expand existing European collaborations
- Explore the needs for industry training and define action plan
 - Start basic > expand as innovative strategies develop

Program WG3



15:10 Alexandra Harlander, UoGuelph, Canada: <u>Effects of early-life environment</u>

15:30 John Tarlton, UoBristol, UK: Effects of nutrition

15:50 Teun van der Braak, Hendrix Genetics, NL:

Possibilities to reduce KBD through breeding

16:10 Alexandra Jeremiasson, SvenskaAgg, Sweden: Experience with KBD in various housing systems in practice

16:30 General discussion WG3

Thank you!

