



Nancy-Université
INPL



Introducing ethics in science higher education

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A Need for Ethics

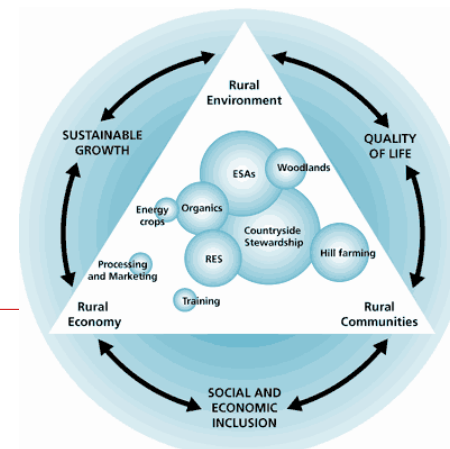
A necessary progress for acceptability

❑ Product acceptability

■ Citizen / Consumer



❑ Social acceptability of the animal production sector



Animal Bioethics: Educational offer in Europe



Aristoteles Project



Teaching Animal Bioethics
in Agricultural and Veterinary
Higher Education in Europe

held at INPL - Nancy, 23-24 May 2002

Workshop Proceedings



Survey:

- 17 countries
- 106 institutions
- 199 courses
- 412 teachers

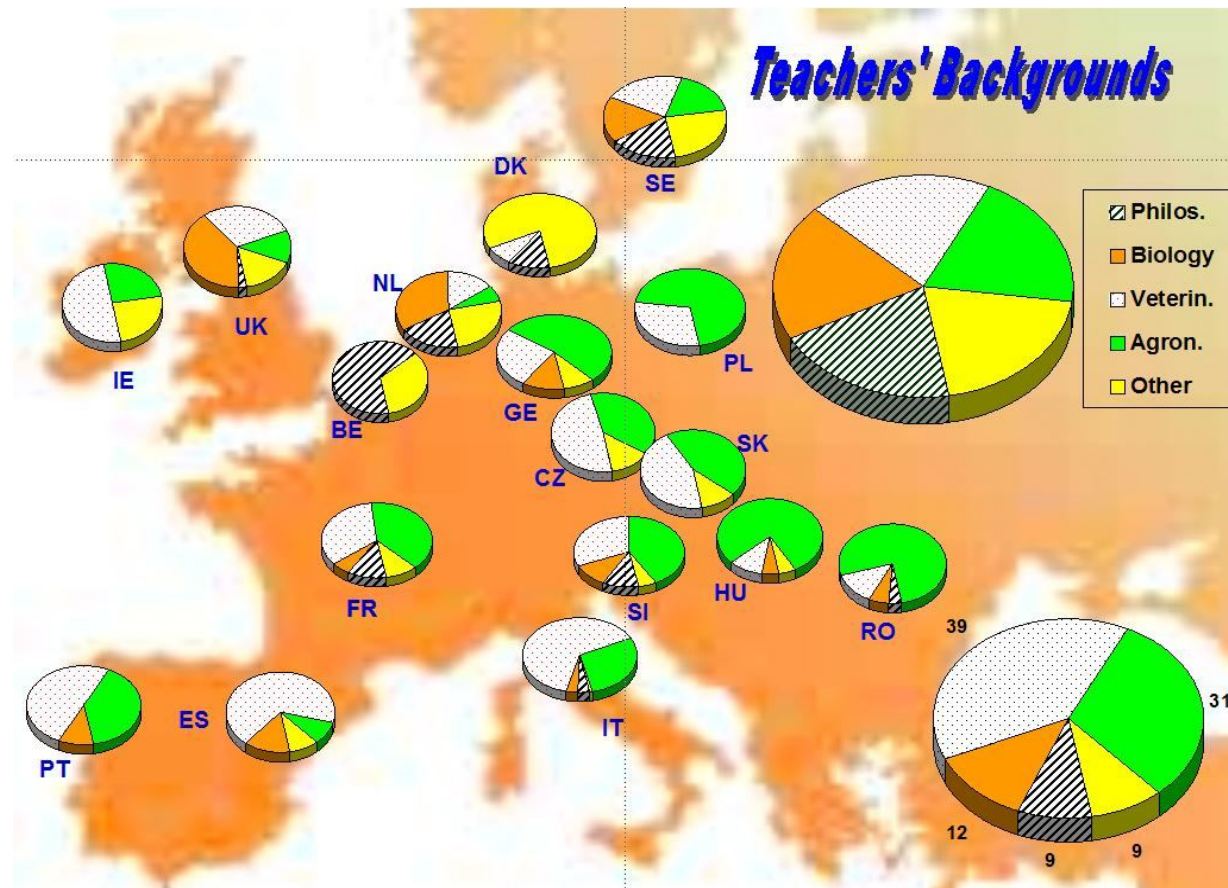
Areas:

- | | |
|--------------------|-----|
| • Farming | 86% |
| • Experiments | 49% |
| • Companion/Sports | 34% |
| • Wildlife | 28% |

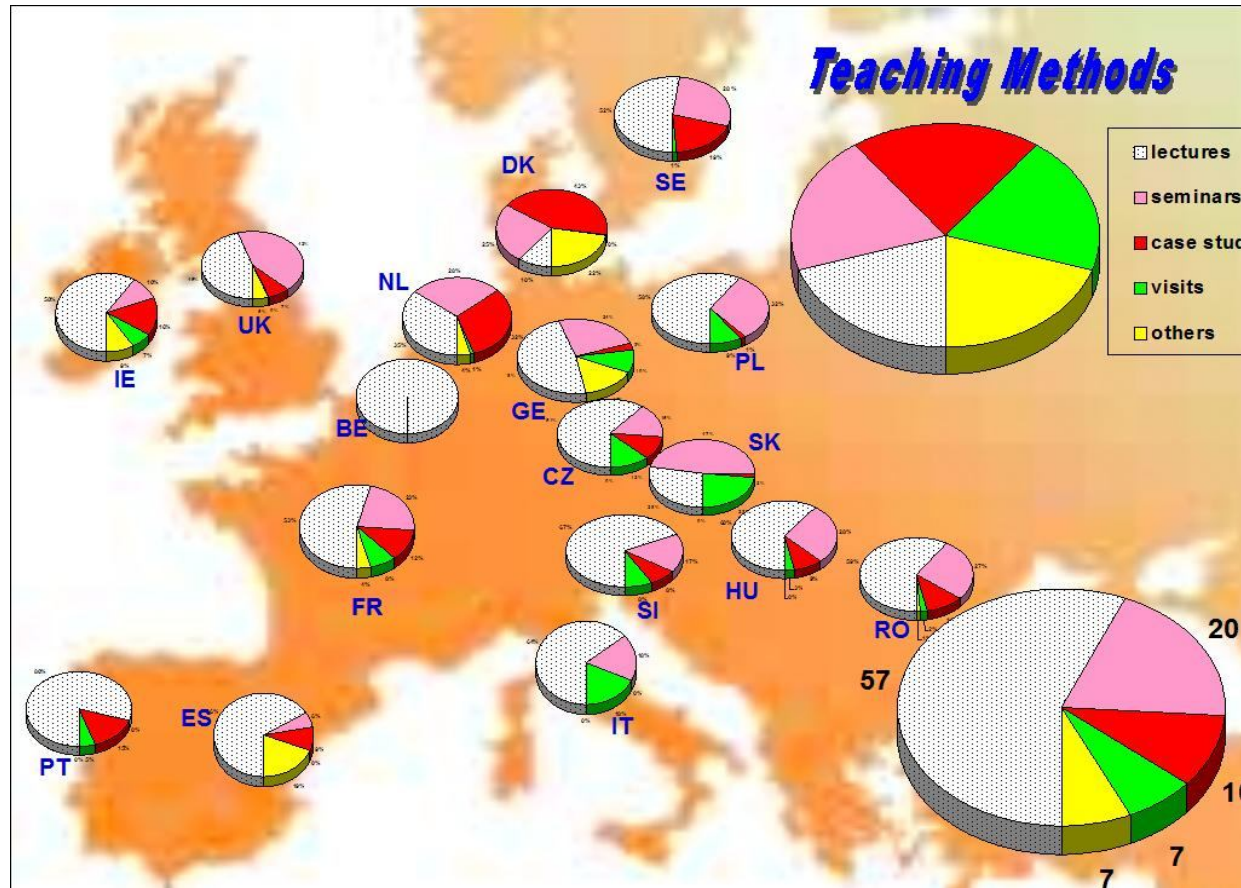
Keywords:

- legislation
- human-animal relationship
- animal rights
- animal welfare
- environment

Animal Bioethics: Educational offer in Europe



Animal Bioethics: Educational offer in Europe

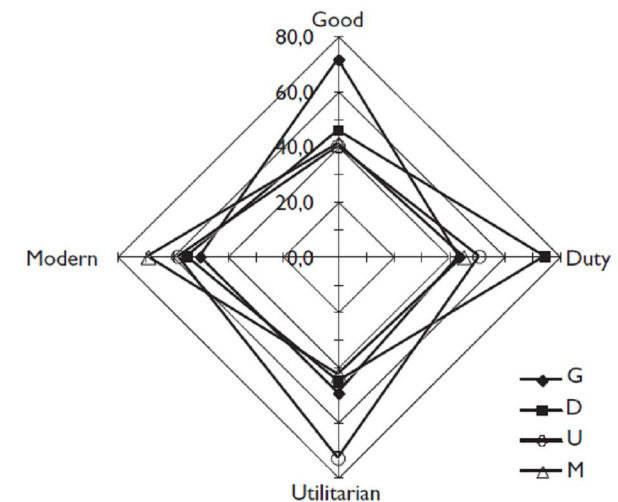


A M.Sc. module: Bioethics, Science and Society

- ☐ Master 1 students in biology, food, nutrition, agronomy, environment
- ☐ 30h module
 - 14h lectures
 - 16h seminars (groups)
- ☐ Teachers:
 - 1 animal scientist
 - 1 philosopher
 - professionals

Main concepts and bases of moral philosophy (5h L, 10h S)

- ☐ Ethical profile (test based on rating of sentences)
- ☐ Presentation of schools of thought
 - Virtue
 - Deontology
 - Utilitarianism
 - Modern/Post-Modern
- ☐ Case studies



Case studies

☐ Small exercises

- write & pass
- classroom distribution
- dilemmas / contrary defence

☐ Examples

- Test of a new antidepressant (rat? monkey?)
- Medication-baby
- Wadden Sea seals
- Xenotransplantation
- ...

Case studies

- ❑ Ethical matrix (Ben Mepham)
- ❑ Reflexive equilibrium method
- ❑ Examples
 - Conflicts between predators and livestock (wolf, bear)
 - May the commercialisation of cloned meat be allowed?
 - Production of hybrid embryos
 - Use of BST in dairy production

The ethical matrix according to Ben Mephram

(Ben Mephram, 2000, 2004, 2005)

☐ Values

■ Well-Being, Welfare

☐ Utilitarianism

■ Autonomy, Freedom

☐ Deontology

■ Justice

☐ Rawls

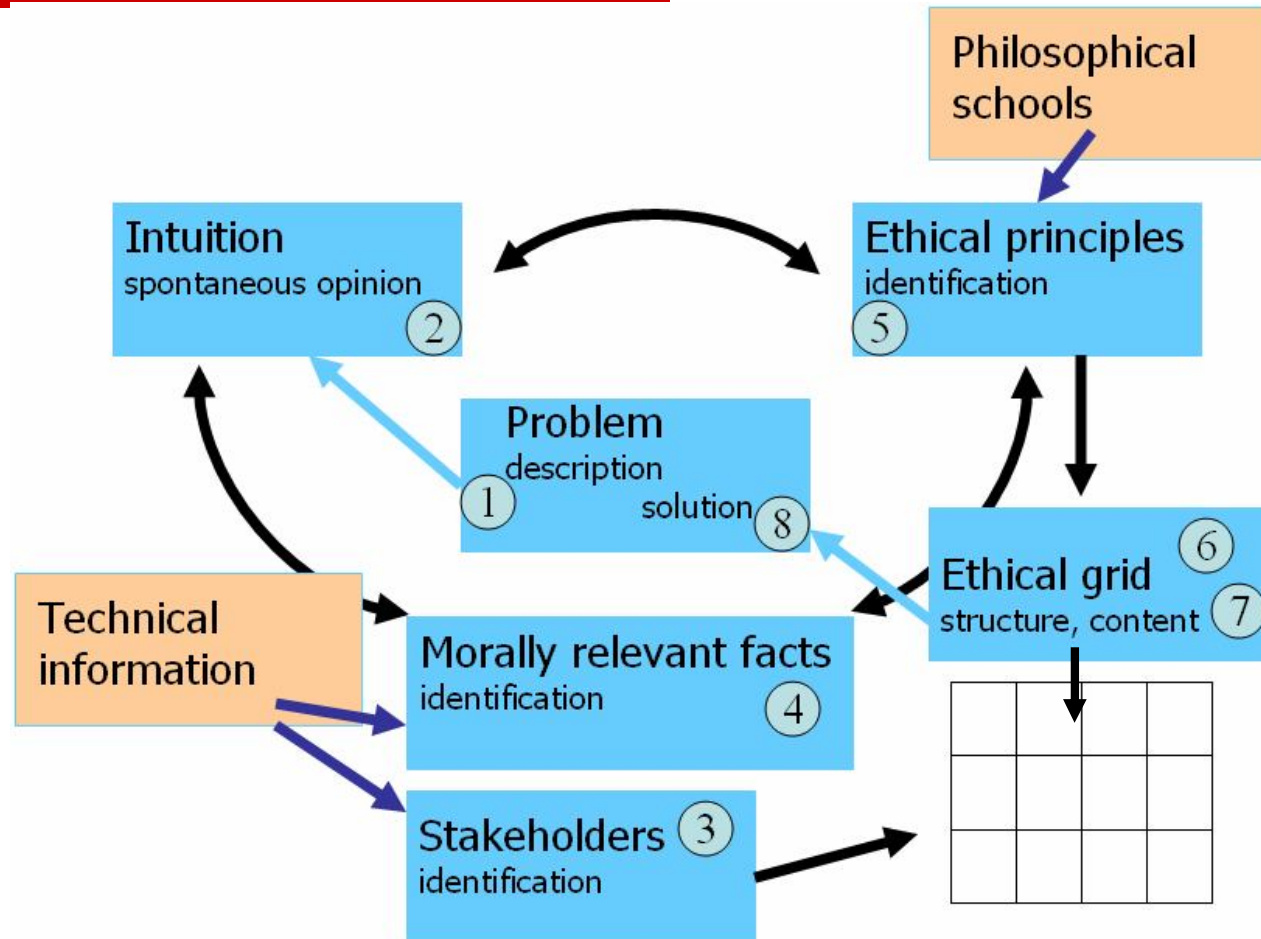
☐ Stakeholders

The ethical matrix according to Ben Mephram

Stakeholders	Well-Being	Autonomy	Justice
livestock	⊖	⊖	⊖
breeders	⊖ ⊖ ⊕	⊖ ⊖	⊖
rural population	⊖ ⊕	⊖ ?	?
hunters	⊖ ⊕	⊖	⊖
ecologists	⊕ ⊕ ⊕	⊕	⊕
urban population	⊕ ⊕ ⊖ ⊖	⊕	⊕
authorities	⊕ ⊕ ⊖ ⊖	⊕	⊕
ecosystem	⊕ ⊕	⊕	⊕
predators	⊕	⊕	⊕

Case studies

Reflexive Equilibrium Method



Principles and Teaching Methods



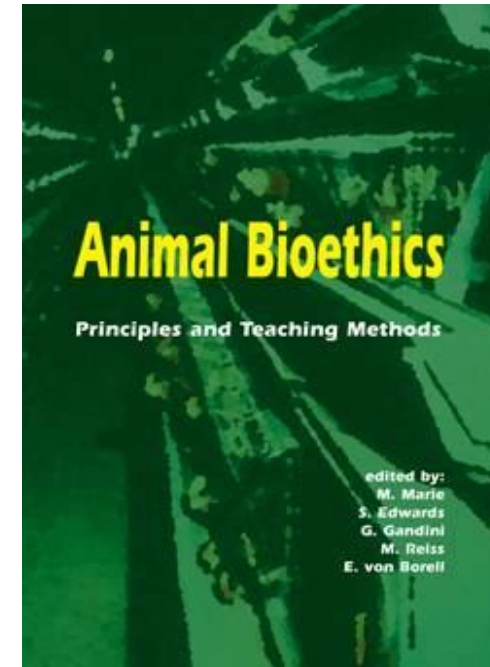
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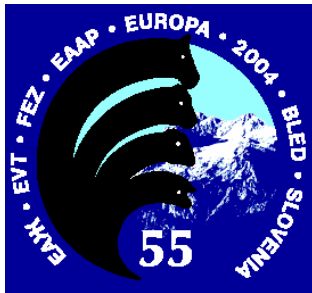


<http://www.wageningenacademic.com/>



<http://www.ensaia.inpl-nancy.fr/bioethics/workshop.html>

Ethical principles and issues

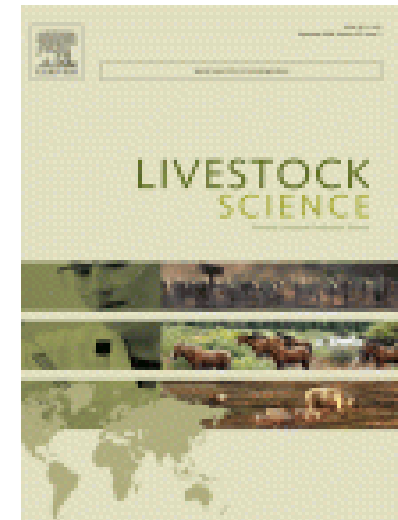


EAAP 55th Annual Meeting

Session ML5

"Ethics in Animal Agriculture"

held in Bled, Slovenia, 7 september 2004.



Ethics in animal agriculture
Livestock Science (2006)
103, (3), 203-308



<http://www.ensaia.inpl-nancy.fr/bioethics/Bled.html>

Home Work

- ❑ Break of 5-6 weeks
- ❑ 2000-2500 words analysis, based on an ethical matrix, of a decision of an ethical committee.
 - CCNE
 - European Group on Ethics in Science & New Technologies
 - UNESCO International Committee of Bioethics
 - FAO
 - INRA
 - CCBB

Science and Society (9h L, 6h S)

- ☐ Responsibility of the scientist
- ☐ Ethics and research
- ☐ Intellectual property
- ☐ Ethical committees
- ☐ Ethical guidelines
- ☐ Citizen conferences

Methods

- (Problem-based learning)
- Role playing
 - Ethical Committee / Parties
 - Genes patentability (Myriad case)
 - Bio-piracy
 - Metagenex case: conflict of interest with the INSERM director
 - Bionic human

Case studies implementation



DESIGN & IMPLEMENTATION OF CASE STUDIES IN ANIMAL ETHICS TEACHING

Workshop Proceedings

Dublin 24 – 26 June 2004

Edited by Alison J. Hanlon



Teaching and Learning Strategies in Animal Bioethics

Geraldine O'Neill

Teaching Animal Ethics On-Line

Anabela Pinto

Using Problem-Based Learning in Teaching Animal Ethics

Deirdre P. Champion, Michael L. Doherty & Alison J. Hanlon

Using Case Studies in Role-Play to Teach Animal Bioethics

Humberto D. Rosa

Critical Success Factors

Alison J. Hanlon, Martin van Iersel, Humberto D. Rosa, Simon Heath & Sandra Edwards



<http://www.ensaia.inpl-nancy.fr/bioethics/cases.html>

Module evaluation (N=242)

- Were you aware of ethical questions ? Y: 45,0%
- Are you now ? Y: 95,8%
- Did you follow similar course before ? Y: 25,2%
- Are you now able to deal with ethics? Y: 87,1%
- Is this module justified ? Y: 84,4%
- Did the module met its objectives ? Y: 87,3%

- ☐ Discovered
- ☐ Gained awareness
- ☐ Gained know-how

Conclusion

- Website:

<http://www.ensaia.inpl-nancy.fr/marie/bioethique/FAGE03.html>

- Gained from exchange of experience between European teachers

- EurSafe ... and EAAP !



Thank you for
your attention

