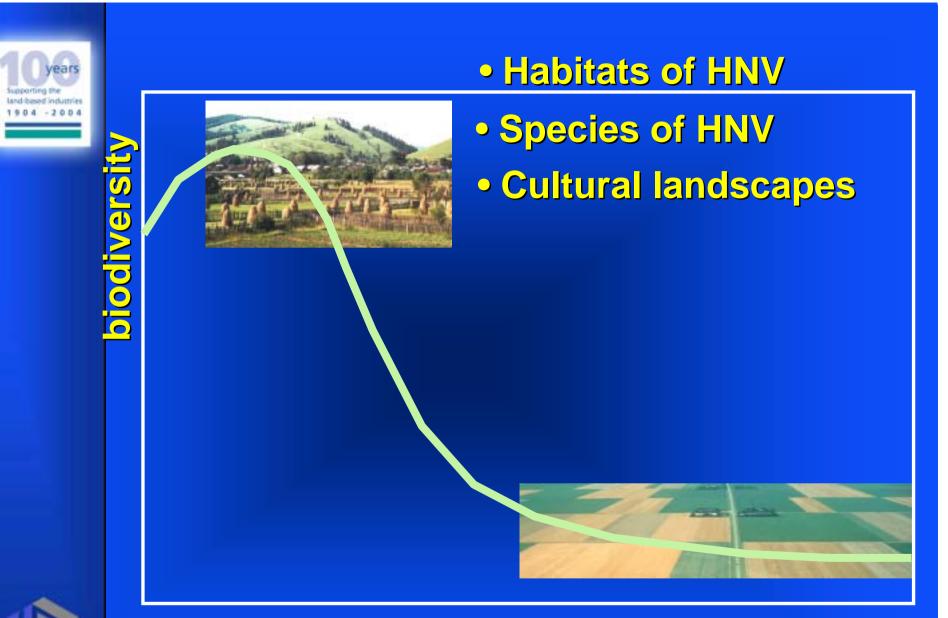


European pastoralism and land abandonment: the experience of the PASTORAL project Davy McCracken Scottish Agricultural College





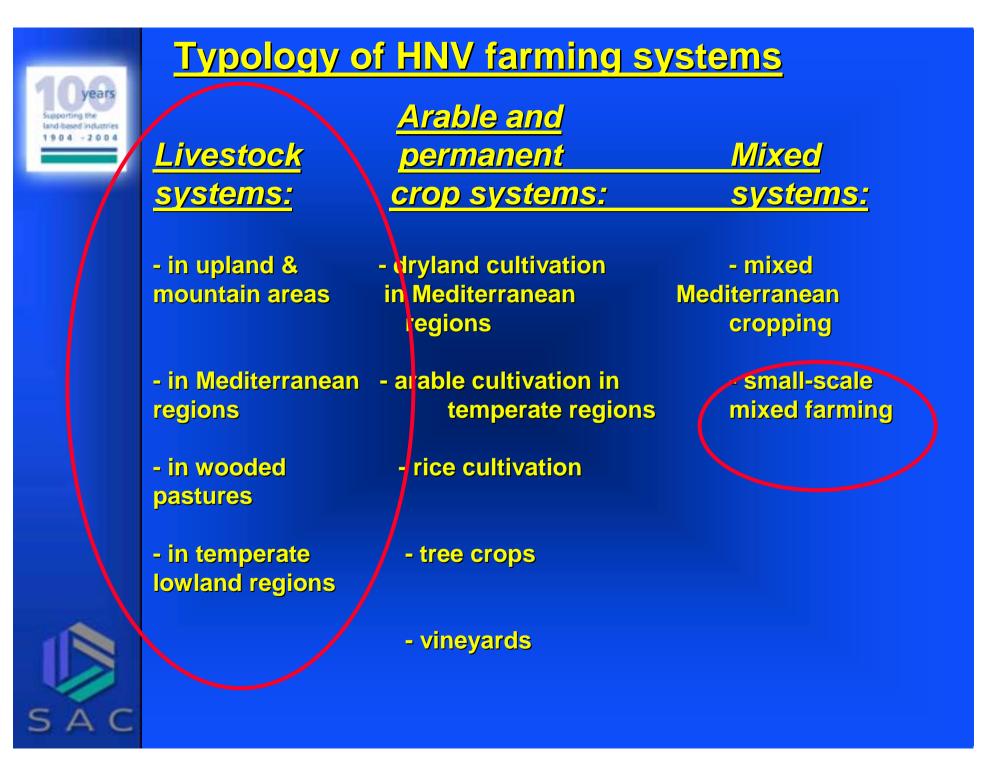
PASTORAL: the agricultural, socioeconomic and ecological characteristics of high nature value pastoral systems in Europe Scottish Agricultural College (UK) • European Forum on Nature Conservation & **Pastoralism** Alterra (The Netherlands) Institute for European Environmental Policy (UK) Asociacion para el Analisis y Reforma de la Politica **Agro-rural (Spain)** Universidad Autonoma de Madrid (Spain) Escola Superior Agraria de Castelo Branco (Portugal) Coordination Paysanne Europeenne (Belgium)



Intensity of agriculture



Graph from presentation by: Hoogeveen Y.R., Petersen J.E. & Gabrielsen P. (2001). Agriculture and biodiversity in Europe. Background report to the High-Level European Conference on Agriculture and Biodiversity, 5–7 June, Paris. STRA-CO/AGRI (2001) 17. Council of Europe/UNEP.







Four main meetings

- Soto del Real, Spain: Extent and characteristics of extensive grazing systems
- Moieciu de Sus, Romania: Impact of scale and Accession on biodiversity value
- Isle of Islay, Scotland: Ecological principles and nature conservation value
- La Crau, France: Rural policies in Europe
 delivering more for pastoralism?



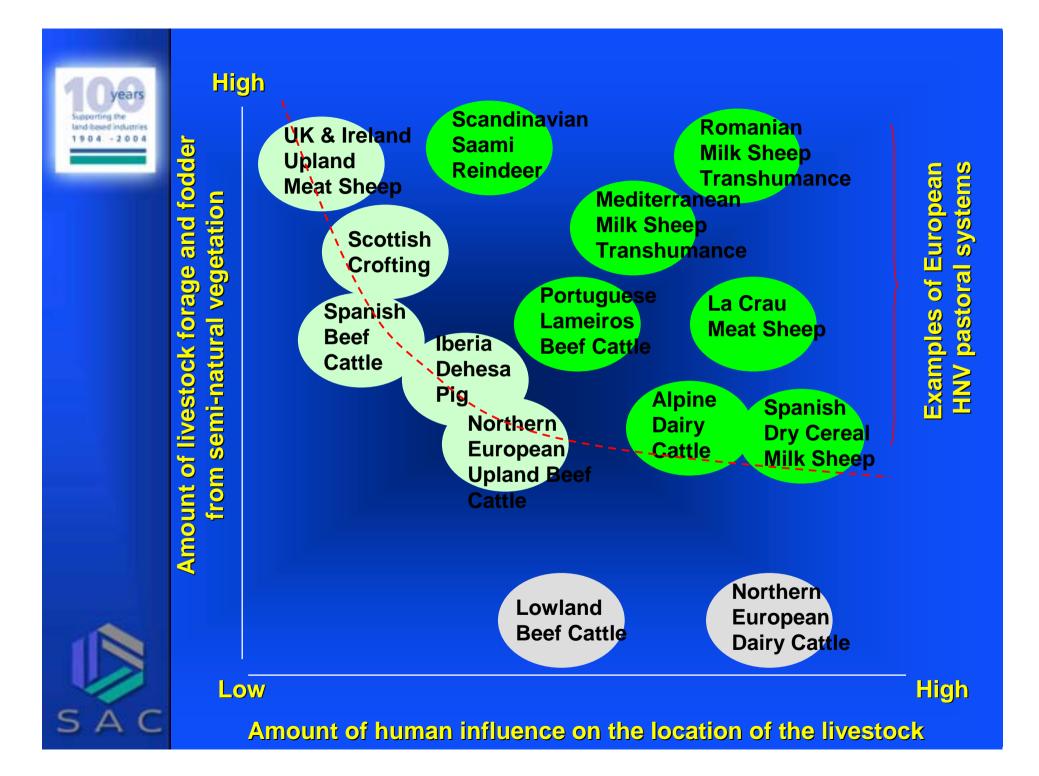


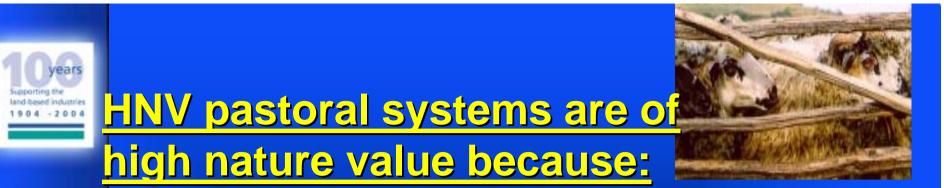
Each main meeting



- 35 40 delegates + local representatives
- 3 3.5 days in total
 - 1 1.5 days discussions in the field with shepherds, landowners and local experts
 - 2 2.5 days formal presentations, workshop sessions and discussions
 - Overview report and articles on website
 - Informed detailed focus of the next meeting

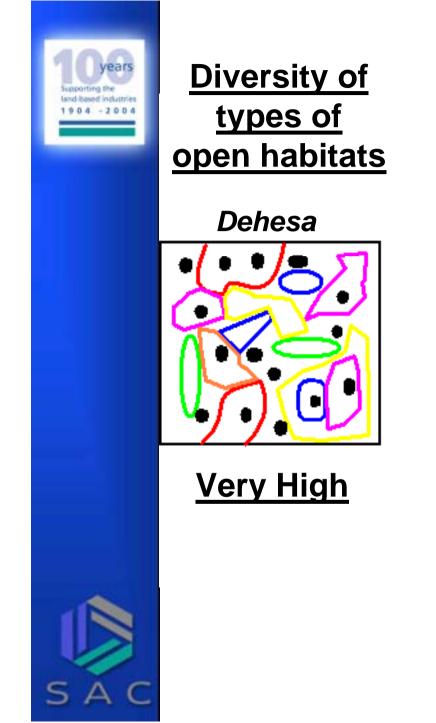


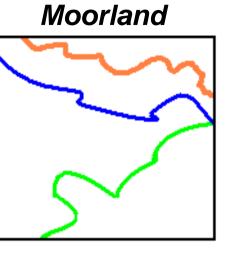




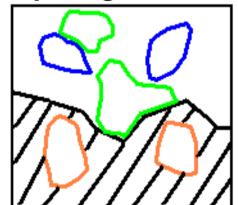
Grazing enhances structural diversity



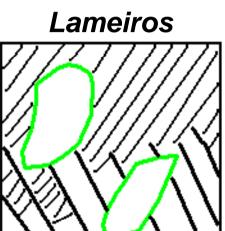




Alpine grassland



Low



Very Low



Diversity of vegetation structure

Dehesa



Very High

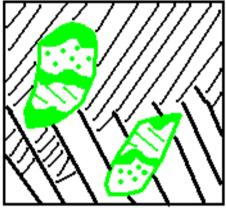


Alpine grassland



Very High

Lameiros



<u>High</u>



HNV pastoral systems are of high nature value because: Grazing enhances structural diversity Practised at large enough scale to allow: Suitable conditions to be found at any time AND For variety of conditions to exist through year

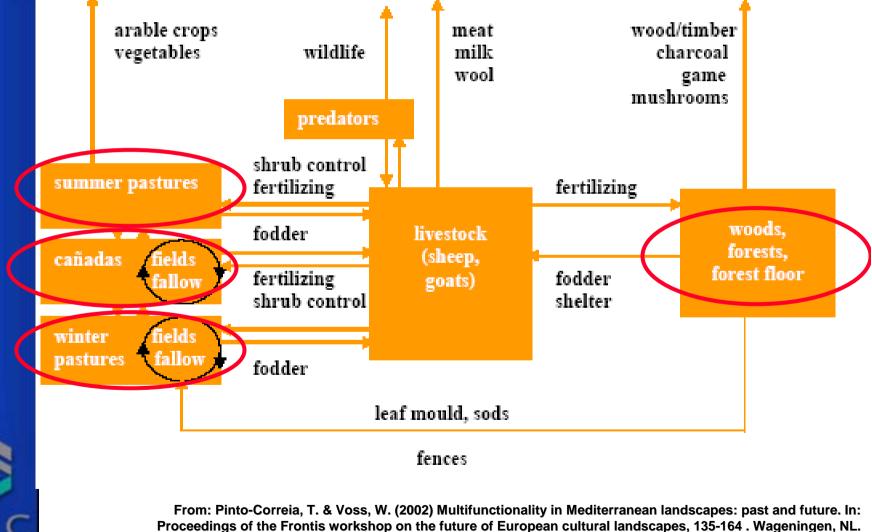




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Transhumance

amenity, biodiversity, historical information, abiotic regulation





biodiversit



Pressures on

HNV pastoral systems:

 Intensification of management practices

• Afforestation of grazing habitats

 Abandonment of management practices

Intensity of agriculture



Graph from presentation by: Hoogeveen Y.R., Petersen J.E. & Gabrielsen P. (2001). Agriculture and biodiversity in Europe. Background report to the High-Level European Conference on Agriculture and Biodiversity, 5–7 June, Paris. STRA-CO/AGRI (2001) 17. Council of Europe/UNEP.

Abandonment of pastoral practices:

Results in low levels of disturbance which reduces spatial and temporal variation in vegetation type and structure
Reduces need for associated HNV habitats (e.g. hay meadows)

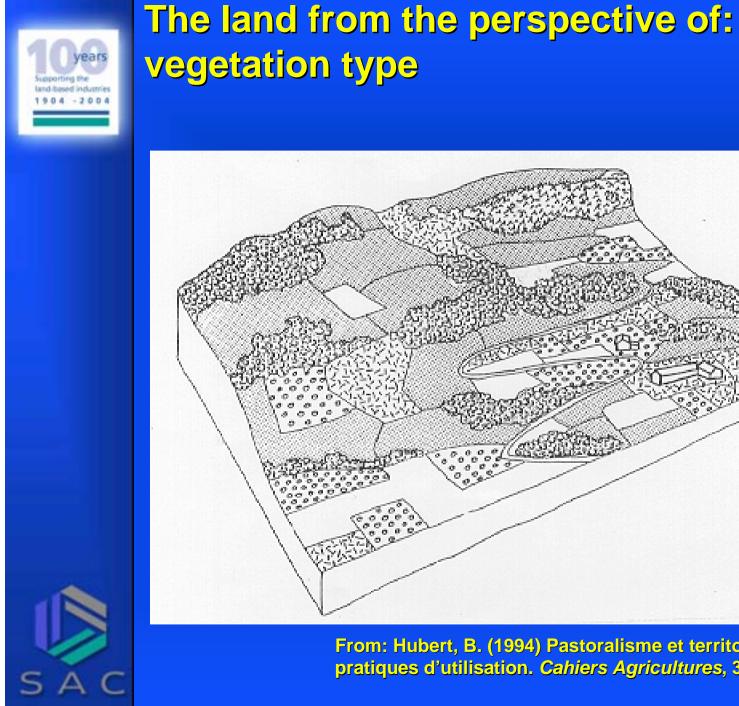
 Can result in intensification of use of other habitats (on the farm or linked to system)

Pastoral practices needed:

 Natural grazing processes do <u>not</u> substitute for livestock associations

Need to maintain intensity at correct level

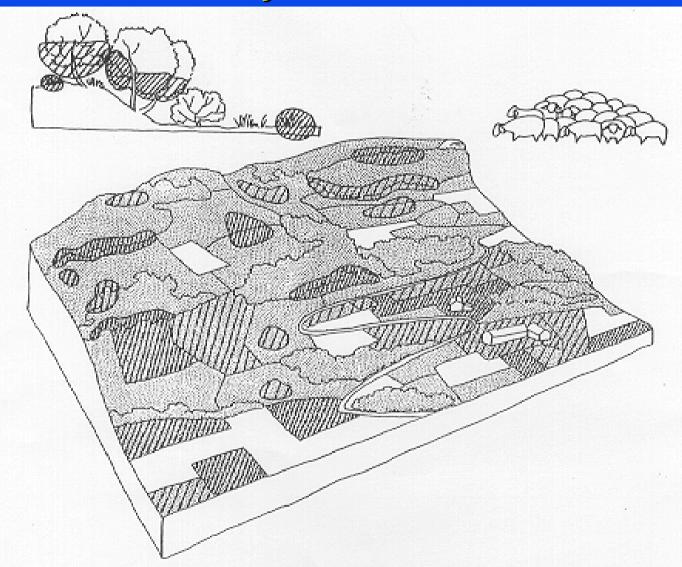
S A C



From: Hubert, B. (1994) Pastoralisme et territoire: modelisation des pratiques d'utilisation. Cahiers Agricultures, 3 9-22

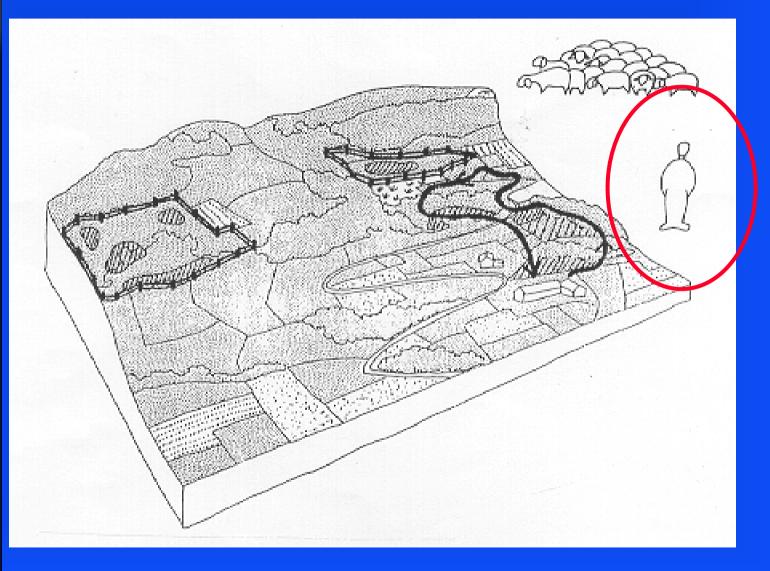
The land from the perspective of: how it is used by animals

ear



From: Hubert, B. (1994) Pastoralisme et territoire: modelisation des pratiques d'utilisation. *Cahiers Agricultures*, 3 9-22

The land from the perspective of: farm management strategies





From: Hubert, B. (1994) Pastoralisme et territoire: modelisation des pratiques d'utilisation. *Cahiers Agricultures*, 3 9-22



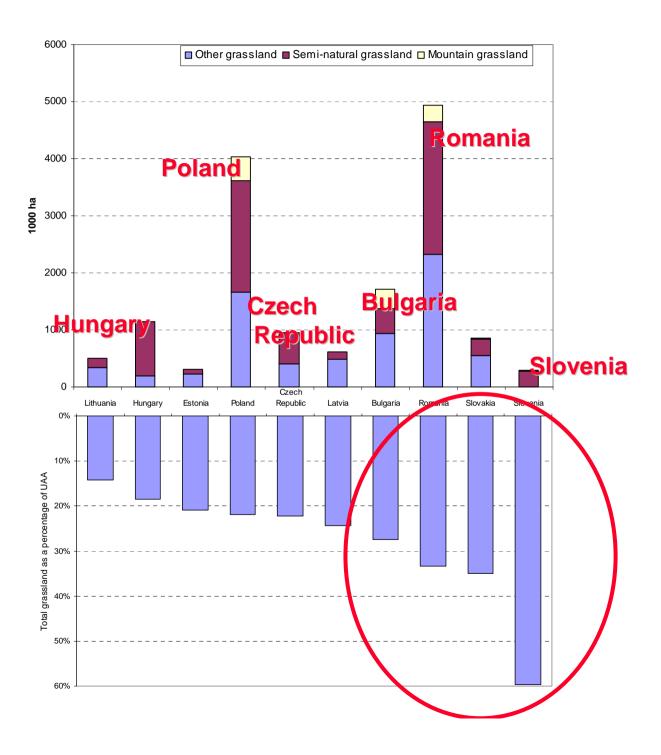
Major issues

 <u>Lack of awareness</u> of importance of these systems for biodiversity conservation

 Mediterranean and Accession countries hold <u>large areas</u> under these systems









Major issues

 <u>Lack of awareness</u> of importance of these systems for biodiversity conservation

 Mediterranean and Accession countries hold <u>large areas</u> under these systems

 <u>Abandonment</u> is having major adverse biodiversity impacts





Abandonment in CEECs

• Affects up to 30% of UAA but varie markedly between countries

• Mainly associated with fall in livestock numbers (cattle fell by 40% and sheep by 60% 1989-1994)

• HNV farmland affected disproportionately. Estonia: 30% of all farmland is abandoned (but figure rises to 50% of permanent grassland and 60% of semi-natural grasslands)



 If abandoned land not included in Agricultural Base Area set for each country then will be difficult to reinstate management (as will not qualify for support)



Major issues

• <u>Lack of awareness</u> of importance of these systems for biodiversity conservation

 Mediterranean and Accession countries hold <u>large areas</u> under these systems

 <u>Abandonment</u> is having major adverse biodiversity impacts

 Transhumant and semi-subsistence shepherds and farmers <u>miss the policy net</u>

 Agri-environment is <u>not sufficient</u> to address these issues

 <u>Social pressures</u> are as important as CAP in contributing to decline of these systems



<u>Gaps in knowledge</u>

- Detailed understanding of how HNV systems <u>function</u> and link with biodiversity
- Ecological <u>limits of tolerance</u> and implications for system development
- Main <u>actors</u> and status with regard to eligibility for financial support
- Appreciation of <u>social problems</u> facing HNV shepherds and farmers
- Impact of <u>policy change</u> on high nature value farming systems



 Approaches to <u>marketing</u> high quality products from HNV systems



Policy implications

- <u>System</u> based policies are needed to help support multiple land-use and transhumance
- Member States need to <u>define</u> their pastoral systems, acknowledge their importance and identify their distribution
- EU-wide strategy to prevent <u>abandonment</u> of high nature value farmland is required urgently



 Southern, Central and Eastern European countries need <u>additional support</u> for high nature value farmland and systems

Urgent action required to ensure

years Supporting the land based incluttries 1904 - 2004

 New regulations do not inadvertently accelerate the decline of pastoralism and its associated biodiversity

• New support measures for pastoralism are <u>targeted</u> both at the systems and at the areas where they survive

 <u>Additional issues</u> affecting the smallscale systems in Mediterranean and Accession countries are addressed before the systems are abandoned

SAC

 Identify and prioritise areas where actions have the most change of having an impact



Further information

PASTORAL project website: http://www1.sac.ac.uk/envsci/external/Pastoral/default.htm

Video - overview of issues

Series of eight Information Notes

1: An introduction to European pastoralism

2: The need for a typology of European pastoral systems

- **3:** The nature of European pastoralism
- 4: Examples of European pastoral systems

5: Trends and threats to the viability of European pastoral systems

6: Potential policy approaches to support European pastoralism

7: Gaps in the understanding of European pastoralism 8: European pastoralism: farming with nature





Further information



