



Towards (self) sustainability of European Regional Cattle breeds (EURECA)

an integrative approach using case studies

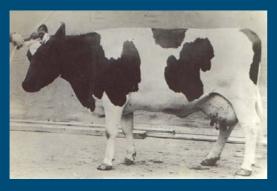
EU GENRES 012 (870/04)

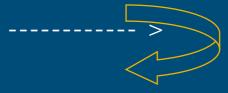
Contract number AGRI-2006-0264

Background to EURECA project



- Replacement of local/regional, often 'dual purpose' cattle breeds by specialized, international breeds
- How to maintain these breeds, the associated agroecosystems and our cultural heritage?
- Successfull strategies for conservation, development and use of such 'regional/local' cattle breeds?







EURECA objectives

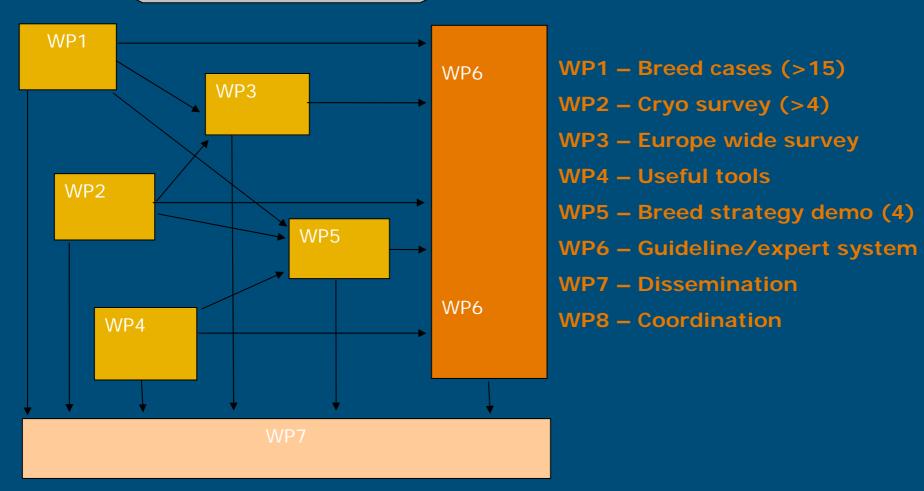


- To better understand the factors affecting the dynamics of local/regional cattle breeds
- To assess status and organisation of existing cattle cryopreservation programmes
- To review available methodologies and software, which are useful supportive tools for genetic management
- → To carry out a Europe-wide cattle breed survey
- → To construct a map of breed development perspectives and suggest guidelines for successful programmes
- → To disseminate state of the art knowledge + 'good practices'

 Centre for Genetic Resources, the Netherlands









Work package	WP leader	Partners involved
WP1	P2 – UNIMI – Italy - Gandini	P0, P1, P3, P4, P5, P6, P7, P8
WP2	P1 – IE – France - Avon	P0, P2, P3
WP3	P1 – IE – France - Avon	P0, P2
WP4	P3 – MTT – Finland – Maki Tanila	P0, P1, P2, P4, P7, P8, P9
WP5	P0 – CGN – Netherlands - Hiemstra	P1, P4, P7, P8
WP6	P2 – UNIMI – Italy - Gandini	P0, P1, P3
WP7	P0 – CGN – Netherlands - Hiemstra	P1, P2, P3
WP8	P0 - CGN – Netherlands - Hiemstra	P1, P2, P3

P4 – FUSAGx – Belgium – Gengler

P5 – EAU – Estonia – Viinalass

P6 - NRIAP - Poland - Choroszy

P7 – ICBF – Ireland – Wickham

P8 – INIA – Spain – Diaz

P9 – UMB – Norway - Meuwissen

Further involvement of:

- ERFP National Coordinators AnGR
- Many stakeholders
- Specific expertise



EURECA

Diversity in landscapes **EURECA**

Diversity in cattle



BREED CASES - NL?



Groninger Blaarkop

Groningen Whiteheaded



Maas Rijn Yssel

Meuse Rhine Yssel

Brandrood

Deep Red



Detailed Breed Case Studies (WP1, G.

Gandini)

- General picture of the breed (origin, history, geographic, literature)
- Evolution of breed demography and farm profiles
- Evolution of breed productivity (compared to 'mainstream')
- Evolution of country context (developments, institutional, actors)
- Past and current breed development and conservation activities

В

Survey to farmers (30, as much variety as possible) of the breed: background, farming system, perception/values, context, opportunities, threats (closed and open questions)

 \mathbf{C}

Stakeholders attitude and values

- Overall SWOT analysis for the breed case
- Recommentations, proposals for breed strategy



Detailed Breed Case Studies (continued)

Deliverables:

- Assessment of individual breeds
 - → breed reports, national/international publications
- Analysis of data across countries
 - → main factors → WP3 (European wide survey)
 - > publications



Assessment national cryopreservation (WP2-

Duclos)

- History and major developments, general organisation of cryoconservation programs/AI, major policies and their objectives
- Inventory of collections, and analysis by breed/group of breeds for local cattle breeds
- Analysis by topic
 - Sanitary situation
 - Legal aspects
 - Sampling strategies
 - Responsibilities/actors
 - Funding
 - Other
- General analysis for the country based on SWOT analysis Centre for Genetic Resources, the Netherlands



WHAT DID WE ACHIEVE SO FAR?



- Starting date: 1 March 2007
- WP1 Breed cases
 - Development of breed survey methodology, including farmer questionnaire and stakeholder questionnaire
 - Within country data collection
- WP2 Assessment of cryopreservation of cattle breeds
 - Development of format/questionnaire for country survey
 - Within country data collection
- WP4 Inventory of available methodologies, tools, software for genetic management/breeding
- Development of website (+ teamsite) (<u>http://www.regionalcattlebreeds.eu</u>)
- Annual meeting after year1
 - Preliminary results by WP/partner
 - Discuss overall analysis of WP1 and WP2
 - First steps towards questionnaire for European-wide survey of cattle breeds (WP3)

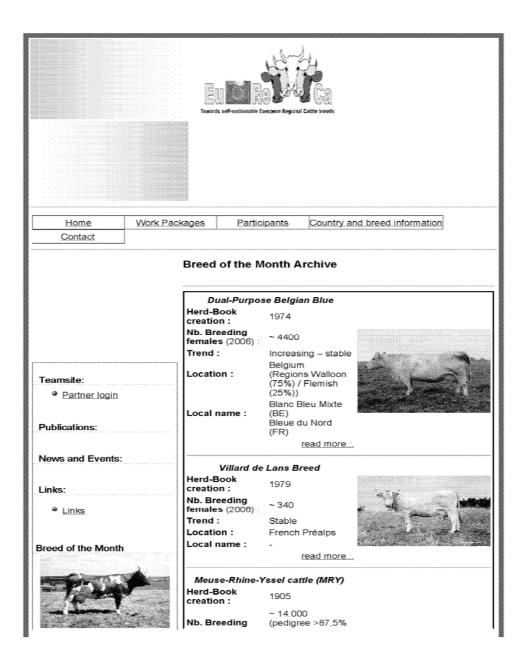


Website development

- Internal communication purposes ("teamsite")
- External website
 - General information, WPs, partners and organisation
 - Country and breed information
 - Multi-language (national and international purposes)
 - Linkages to other relevant sites
 - EAAP Cattle network
 - GlobalDiv (GENRES)
 - Elbarn (GENRES)
 - VAPE (ERFP, in situ conservation)
 - HeritageSheep



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http://www.regionalcattlebreeds.eu

