



MEditerranean bioDiversity as a tool for the sustainable development of the small ruminant sector: from Traditional knowledge to Innovation

Christina Ligda

Veterinary Research Institute of Thessaloniki, Greece Hellenic Agricultural Organisation









Consortium

- GREECE Hellenic Agricultural Organisation Direction of Agricultural Research (NAGREF)
 - Veterinary Research Institute of Thessaloniki
 Ch. Ligda, E. Sossidou
 - Agricultural Economics and Policy Research Institute
 I. Tzouramani
- FRANCE Institut National de la Recherche Agronomique
 - SAD LRDE, Corte
 A. Lauvie, F. Casabianca
- CYPRUS Agricultural Research Institute, Lefkosia
 G. Hadjipavlou
- MOROCCO -Institut Agronomique et Vétérinaire Hassan II, Rabat
 A. Araba





Aims and objectives

- Sustainability of pastoral and rangeland production systems (sheep and goat production)
- The following aspects will be investigated:
 - Components of the production systems
 - Assessment of the sustainability (environment, economical, social)
 - Role of local authorities / organisation at territorial level
 - Distribution of products, supply chain, trends of the market
 - Positive synergies in breeds-products interactions
 - review existing strategies
 - supporting the development of new ones





State of Art

- Rangeland and pastoral systems

 the traditional way of farming
- Knowledge systems and know-how developed gradually in interaction with the environment
- These systems are valuable under the new demands
 - protection of the environment and biodiversity
 - consumer demands on safe and quality products (in affordable prices)
- The necessary evolution of these systems → an overall adaptation of their components
 - to provide sufficient income to the farmer in appreciable working and living conditions
- Differentiation of the products, valorization of their specificities





Corse, FR











Cyprus





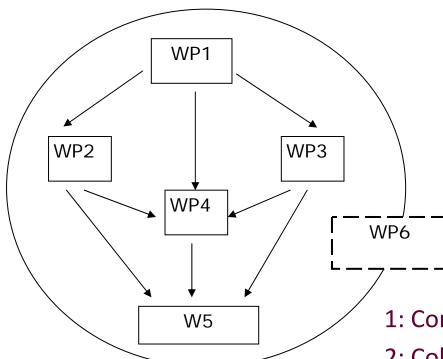
Morocco







Workpackages



1: Components of the Production System

2: Collective organisation at territorial level

3: Supply chain and Market analysis

4: Assessment of the sustainability of the system

5: Mediterranean Platform

6: Project Coordination and Management





Timetable

	Year 1											Year 2										Year 3								
WP	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1			D1							D2			D3																	
2												D1					D2			D3										
3												D1										D2								
4																								D1			D2			
5					D1																								D2	
6		M1												M2					D3							M4		M5		D6







Partner	Personnel costs, temporary staff except PHD	Personnel costs, PHD	Consumabl es	Travel & subsistence	Other costs (to be specified in A10)	Overhead	Total costs	
1 NAGREF. Greece	1.5	0	2.9	23.4	4.2	0	32.000	
2. INRA – SAD Corse	12	0	4	41.5	3	4.235	64.735	
3. ARI – Cyprus	0	0	1.5	13.1	2.4	1.2	18.2	
4. IAV - Morocco	2	4.5	4.5	28.84	9.5	14.802	64.142	
Total	15.5	4.5	14.2	106.78	20.6	22.669	184.249	





Contribution

- Link livestock production with the environment, the social and economical sciences
- Positive changes
 - in the efficiency and resilience of the production systems,
 - the competitiveness of the products and their position in the market
- Advising tools for the implementation of valorisation projects, breeding schemes and commercialisation strategies, by conciliating the objectives of various local stakeholders





DoMesTIc Aims and Prospects

Which actions are needed to ensure competitiveness and sustainability?

For sheep and goats:

- > Breeding healthy, disease resistant animals
 - Assessing genetic management
- ➤ Conservation of local breeds /genetic resources (well-adapted to climatic conditions/changes)
 - Recording the attributes of various farming systems
 - Evaluate traditional knowledge and farmers' ability to respond to change





DoMesTIc Aims and Prospects

Which actions are needed to ensure competitiveness and sustainability?

For sheep and goat products:

- Higher on-farm processing of milk products
- Added value of sheep and goat products

For sheep and goat farmers:

- Incentives for young individuals to continue family business
- Guidelines for supporting new sheep and goat farmers
- Enhanced education, knowledge transfer and extension services





• Current status of implementation





WP1. Components of the production system

- Interviews of farmers on the farming methods, specific uses, products, links to the region etc
- Review the traditional knowledge related to the production systems, developed in the specific environment and resources





WP1

- Design of questionnaire
- Finalised
- Translated in local languages
- Pilot interviews Sampling method in each region
- Start collection of data





Questionnaire

- 1. FARM'S GENERAL DATA

 Profession, cropping system
- 2. LIVESTOCK COMPOSITION
- 3. FEEDING SYSTEM
- 4. LABOUR
- 5. BREEDING REPRODUCTION
- 6. HEALTH MANAGEMENT
- 7. PERFORMANCE
- 8. PRODUCTS





WP2. Collective organisation at territorial level

- The territorial features will be analysed
 - Interaction between territory and production process
 - Involvement of stakeholders on the territory
 - Role of sheep and goat production systems in the local development





WP2

- Who are the main actors and what roles do they play? [responsibilities/benefits]
- What are the main problems for each of the actors?
- What is the environment in which the actors function?
- Who are considered as the prime movers among the actors?
- What are their relationships with each other? Are there any conflicts?



WP2



Characterization of the collective organization

Breed	Number of animals
In the area	Elsewhere
Official breeding scheme	
Yes	No
Structure in charge	Aim to build one?
Date of establishment	Stakeholders involved
Main steps in the history of the scheme	
Selection criteria	
Other bodies involved as partners / their role	







Characterization of the collective organization

Breed	
Product / quantity	
Collective brand or GI	Official structure in charge of the management
	Main steps in the history of the valorization
	Main specification criteria
	Other body involved as partner / their role
For the products without label, there is aim to build one?	





WP3. Supply chain and Market analysis

- Identify and characterise the main stakeholders involved in the production and valorisation of the products
- Products with commercial ground, adapted to the market needs and demands
- Maintaining their specificity, originality and authenticity



WP3



Traditional Breed Production Systems and Supply Chains

Product specificity

- History and cultural characteristics
- Conditions related to soil, climate, and other physical characteristics
- Links between the product and the specific geographical area

Market

- Market characterisation
- Description of the consumption and marketing system



WP3



Traditional Breed Production Systems and Supply Chains

Consumer demand

- Trends and drivers
- Perceived quality by consumers
- Perceived quality by other actors in the supply chain

The institutional environment

- History/Path dependencies
- Legal and regulatory environment (regional, national, EU)
- Relevant policies (regional, national, EU) and their impact





WP4. Assessment of the sustainability of the system

- Identify explicit and implicit practices and rules implemented by the farmers and all stakeholders in the studied cases
- Interactions between the strategies for product valorisation and strategies for the genetic management of the breed





WP5. Mediterranean Platform consolidating traditional knowledge and innovation

- Information tool of the project
- www.arim-domestic.net
- Main dissemination tool of the Project deliverables
- Communication Platform consolidating traditional knowledge for innovative activities
- To be extended further (after finalisation of the project) to all counties of the Mediterranean region

ARIMNet Home Page

Main Menu

- Objectives
- > Partners
- Work Packages
- Meetings
- > Dissemination

Latest News

> Meeting Ioannina, July 2012

Login Form

Username

Password

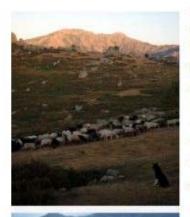
Home







Mediterranean biodiversity as a tool for the sustainable development of the small ruminant sector: from traditional knowledge to innovation





In the Mediterranean region, rangeland and pastoral systems considered as the traditional way of farming contain elements that can be proved of high value under the new conditions, related with the need for the protection of the environment and biodiversity and with consumer demands on safe and quality products. These production systems utilizing local genetic resources adapted to the production environment could increase their profitability through the modernization of the production systems and by enhancing the means of commercialization of the products.

The project aims to investigate the factors that influence the sustainability of pastoral and rangeland production systems in the participating countries, focusing on sheep and goat production, and examine the adaptation strategies to the socio-economic and environmental challenges. Towards this aim, the following aspects will





Συντονιστής του έργου:

Ελλάδα

Διεύθυνση Αγροτικής Έρευνας – ΕΛΓΟ (πρώην ΕΘΙΑΓΕ)
Ινατιτούτο Κτηνιατρικών Ερευνών Θεοσαλονίκης
Δρ Χριστίνα Λιγδα, <u>chilada@otenet.ar</u>
Δρ Ευαγγελία Σωσσίδου, <u>sossidou.aria@nagref.ar</u>
Ινστιτούτο Γεωργοσικονομικών & Κοινωνιολογικών
Ερευικών

Δρ Ειρήνη Τζουραμάνη, tzouramani.inagrop@nagref.gr

Εταίροι :

Γαλλία INRA, SAD LRDE, Κορσική

Dr Anne Lauvie, <u>lauvie@corse.inra.fr</u> Dr Francois Casabianca, <u>fca@corse.inra.fr</u>

Κύπρος

Ινστιτούτο Γεωργικών Ερευνών, Λευκωσία Δο Γεωργία Χατζηπαύλου.

georgiah@arinet.ari.gov.cy

Μαρόκο

Institut Agronomique et Vétérinaire Hassan II, Ραμπάτ

Prof Abdelillah Araba, <u>a.oraba@amoil.com</u> Περισσότερες πληροφορίες στην ιστοσελίδα του

έργου: www.arim-domestic.net

Επικοινωνία:

Δρ Χριστίνα Λίγδα, <u>chliada@otenet.ar</u> ΙΚΕΘ - Τ.Θ. 60 272, 57 001 Θεσσαλονίκη τηλ. +30 2310 47 11 10 (136) fax: +30 2310 36 53 71









Mediterranean biodiversity as a tool for the sustainable development of the small ruminant sector: from traditional knowledge



Η Μεσογειακή βιοποικιλότητα ως μέσο για τη βιώσιμη ανάπτυξη του τομέα της προβατοτροφίας και αιγοτροφίας: συνδέοντας την παραδοσιακή γνώση με την καινοτομία

Brochure informative on the project for the local stakeholders





Ο στόχος του προγράμματος ARIMNet (Agricultural Research in the Mediterranean Region)

είναι η ενίσχυση της επιστημονικής συνεργασίας μεταξύ χωρών της Μεσογείου και η δημιουργία μιας ερευνητικής κοινότητας με το συντονισμό των εθνικών προγραμμάτων αγροτικής έρευνας.

Οι χώρες της Μεσογείου παρουσιάζουν κοινά χαρακτηριστικά, τα οποία είναι σημαντικά για τη γεωργία και την παραγωγή τροφίμων, όπως το κλίμα, η βλάστηση και η μοναδικί βιοποικιλότητα. Το ΑΡΙΜΑΝΕ επιδιώκει τη συνεργασία ερευνητικών ομάδων των χωρών της Μεσογείου για την αντιμετώπιση των κοινών προκλήσεων, όπως η βιώσιμη ανάπτυξη, η διαχείριση των φυσικών πόρων και η κλιματτική ολλαγή.

Στο πλαίσιο αυτό υλοποιείται το ερευνητικό έργο 'Mediterranean biodiversity as a tool for the sustainable development of the small ruminant sector: from traditional knowledge to innovation', 'DoMESTIC'.

κύριος σκοπός του έργου είναι η διερεύνηση των παραγόντων που επηρεάζουν τη βιωσιμότητα των πουμενιών και εκτατικών παραγωγικών συστημάτων, προβάτων και αιγών στους άξονες: περιβάλλον, οικονομία και κοινωνία.

Για το σκοπό αυτό θα διερευνηθούν: 1) οι διαφορετικές συνισταμένες του παραγωγικού συστήματας, 2) η συλλογική οργάνωση σε τοπικό επίπεδο, και 3) η εφοδιαστική αλυσίδα, οι δυνατότητες προώθησης των προϊόντων και οι τάσεις της αγοράς.

Ο σχεδιασμός του προγράμματος θα οδηγήσει στον προσδιορισμό πιθανών θετικών συνεργιών μεταξύ ψυλών – προϊόντων. Στόχος είναι η ενίσχυση της αλληλεπίδρασης μεταξύ των τοπικών ψυλών αγροτικών ζώων ακ προϊόντων ποιότητας, εξετάζοντας τις υπάρχουσες στρατηγικές και ενισχύοντας την ανάπτυξη ψεκ



Πακέτα Εργασίας

WP1. Components of the Production System (Συνισταμένες του παραγωγικού συστήματος)

WP2. Collective organisation at territorial level (Συλλογική οργάνωση σε επίπεδο περιοχής)

WP3. Supply chain and Market analysis (Εφοδιαστική αλυσίδα και ανάλυση αγοράς)

WP4. Assessment of the sustainability of the system (Προσδιορισμός της βιωσιμότητας του συστήματος)

WP5. Mediterranean Platform consolidating traditional knowledge and innovation (Μεσογειακή πλατφόρμα με στόχο τη σύνδεση της παραδοσιακής γνώσης με την καινοτομία)



Από την τεχνική επίσκεψη με τους εταίρους του έργου και τους συνεργάτες στην Ήπειρο, κατά την 1° Συνάντηση Εργασίας του έργου (Ιούλιος 2005)



1^η Τεχνική Συνάντηση Εργασίας του DoMEsTic, Ινστ. Τεχνολογίας Γάλακτος, Ιωάννινα (Ιούλιος 2005)





 Partner in the Regional Workshop on «Characterization and Value Addition to local Breeds and their Products » - North Africa and Near-East

19-21 November 2012 IAV Hassan II, Rabat, Morocco



Kick off meeting



Dairy Research Institute, Ioannina, Greece 4-5 July 2012

- Participants:
 - Project Partners
 - Local Stakeholders
 - Association of Pastoral Farmers of Epirus
 - Union of Agricultural Cooperatives of Ioannina
 - Genetic Improvement Centre of Ioannina
 - Hellenic Organisation of Milk and Meat
 - Dairy School of Ioannina
 - Farmers





Field visit

Sheep flock in the summer pastures in Peristeri mountain (Epirus)
Kalarritiko sheep breed







Next Steps

- Continue field work
- Report on production system
- Synthesis of case studies
- Map of collective organisation at territorial level
- Map of supply chain





Next Meetings

- 2nd Meeting Corsica May 2013
- 3rd Meeting Cyprus May 2014

Final Workshop – Morocco

