

EAAP 2014 Copenhagen, Denmark 25 - 29 August 2014 65th annual meeting of the European Federation of Animal Science

Equine power in Mediterranean areas: Is there a place for it?

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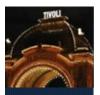
Discovery Session:

The horse as key player of local development: looking to the future in the 3rd millennium

³CIISA-FMV, ULisboa, Lisboa, Portugal

⁴UCM, Dep. Animal Production, Madrid, Spain

⁵Molise University, Dep. Agriculture, Environment and Feed Sciences, Campobasso, Italy



Mediterranean region: land, people and equines...







In the EU, the Mediterranean region ocupies 7 member states either partially: France, Portugal, Spain, Italy Or completely: Grece, Malta, Cyprus

20.8% of EU territory.

(EU, 2010)

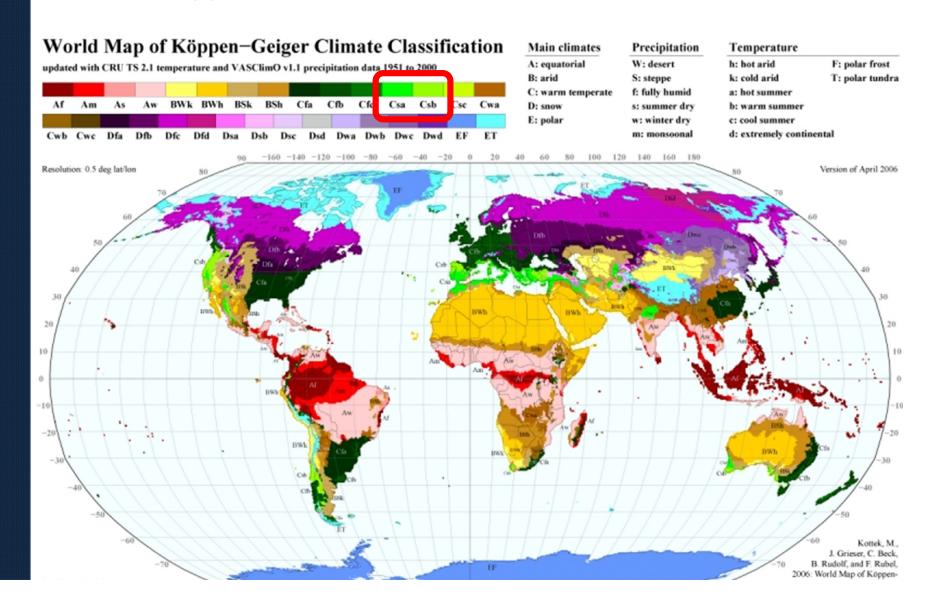






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Climate classification: Csa – Csb: Warm temperate, summer dry, Hot summer (a); warm summer (b)

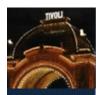




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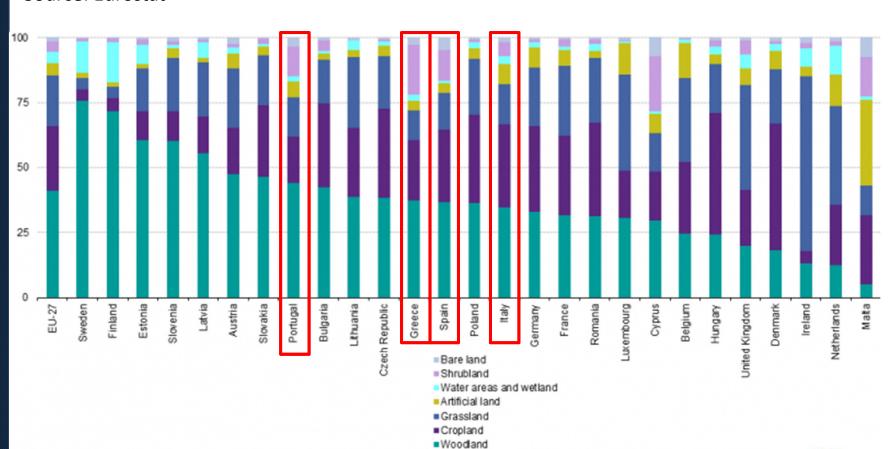




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Main land cover by land cover type, 2012 (1)(% of total area)
Source: Eurostat



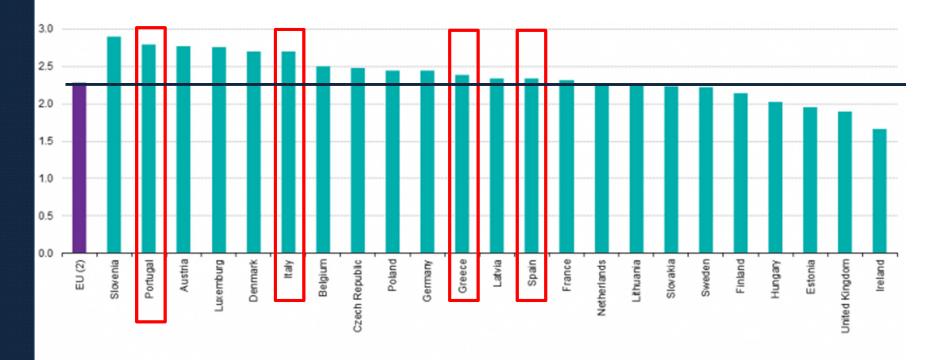
⁽¹⁾ Croatia: not available. Source: Eurostat (online data code: lan_lcv_ovw)







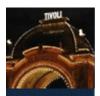
Land cover richness indicator - average number of different land cover types in a 250m transect, 2009 (1)(number) - Source: Eurostat



⁽¹⁾ Data derived from further analysis and computation of elementary data.



⁽²⁾ EU-27 average excluding Bulgaria, Cyprus, Malta and Romania. Source: Eurostat (online data code: lan_lcs_ric)





Witnessed some of the earliest finds of human settlement in Europe!

22,000 years ago, early mankind left behind a strong legacy in this area, through an amazing series of rock carvings depicting the local wildlife. A heritage written in stone.















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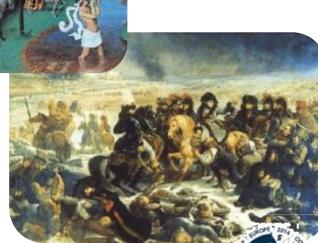
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Traditional socio-cultural life: Italy

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Sardinia: Giara Pony Show











Traditional socio-cultural life: Spain

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Romeria del Rocio - Huelva



http://www.sicab.org

Doma vaquera

http://www.domavaquerainstruction.com/abou

Jaleo Menorquin



http://menorca-live.com/top-ten-things-to-do-in-menorca/

Rapa das bestas



http://www.berenguela.com/rapa-das-bestas-de-sabucedo-pontevedra/2010-06-29



Traditional socio-cultural life: Portugal

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Sports and leisure

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Some numbers...



	Italy	Spain	Portugal
Surface area (km²)	301,263	504,782	92,072
Population (millions)	60,000	45,800	10,600
Equines	300,000	723,500	56,000
Equines/1000 hab	5	16	5
Autochthones breeds	18	26	5
Breeders	65,000 (owners)	33,000	3,050
Riding Schools	-	685	530
Number of hectares used by equines	-	500,000	91,749
Jobs	50,000	15,000	11,000
Total turnover (horse industry) (M €)	10,000	5,300	-

(EU, 2014, local statistics, Breeders associations, ...)





Horse use in the Mediterranean



- •Horses represent an important **cultural heritage** in Mediterranean countries.
- •Equine traditions are highly embebed in present times and are a part of the image of these countries.
- •This image is easily "sold" for touristic purposes







So... What's next?

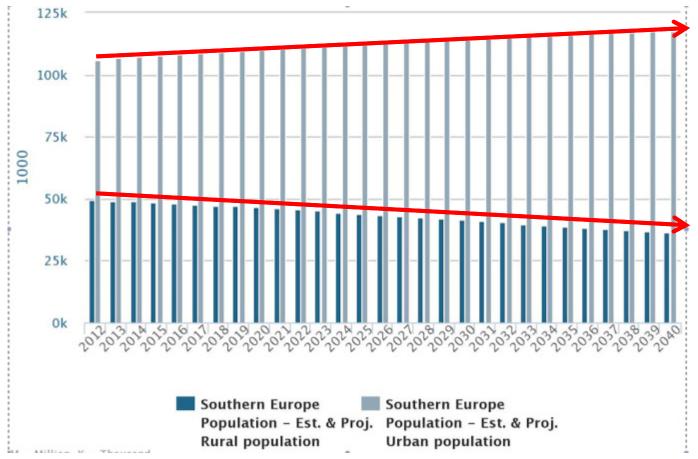






EU: REGIONS 2020 - DEMOGRAPHIC CHALLENGES FOR EUROPEAN REGIONS

"...Southern Europe shows a heterogeneous picture comprising of both regions with high population growth (Southern Spain, Southern France, Cyprus, Malta) and regions with declining populations (Southern Italy, some regions in Greece)."

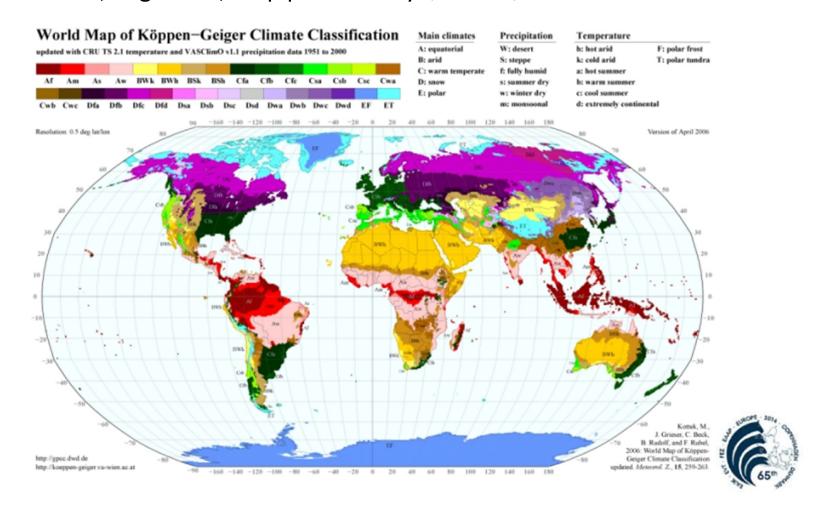








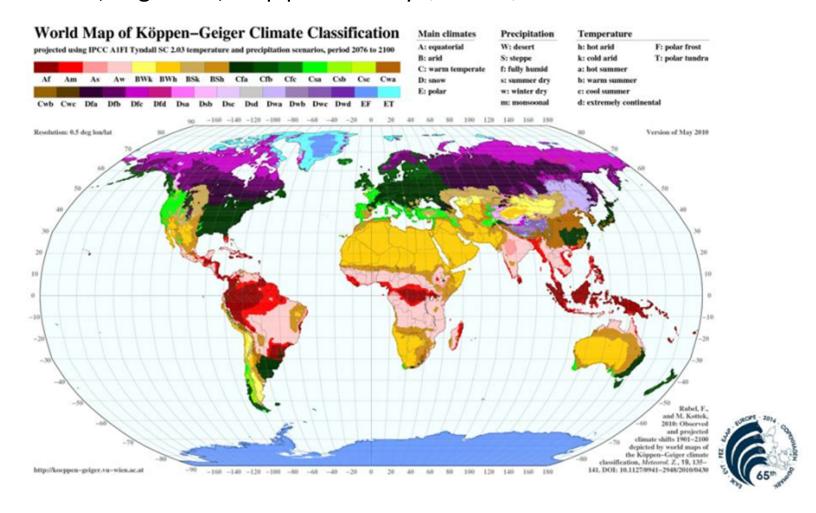
In southern Europe, climate change is projected to **worsen conditions** (high temperatures and drought) in a region already vulnerable to climate variability, and to reduce water availability, hydropower potential, summer tourism and, in general, crop productivity. (IGCC,2007)







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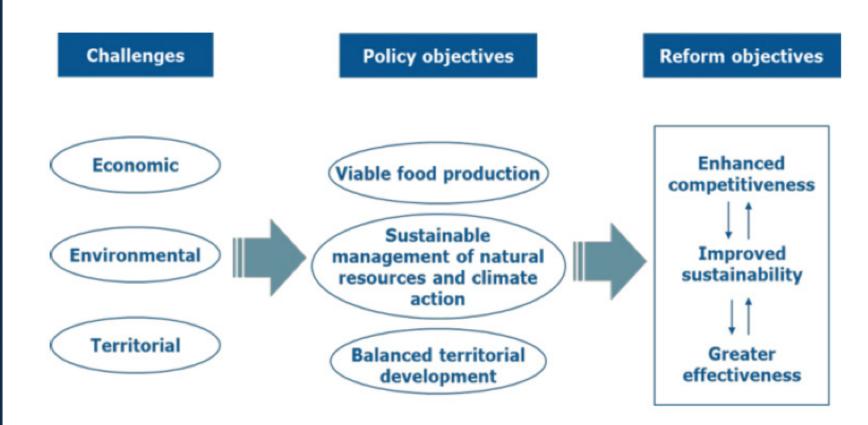






Agriculture / Rural

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EU, 2013 (CAP 2013-2020)





Agriculture / Rural



Are equine farm animals???

In Portugal, Spain and Italy, equines are farm animals!

Breeders associations, breeders and horse owners can benefit from financial aids;

It is recommendable to make an analysis of the breed before implementing a breeding system in order to maximize the economic output of a breed in a sustainable and conservation view:

- 1. Definition of the local production system.
- 2. Identification of driving factors of the system: strengths, weaknesses, opportunities and threats, identifying between internal and external factors.
- 3. Identification and prioritisation of strategies for breed development and conservation. (Martín-Collado et al., 2010)

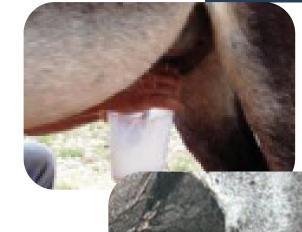


Equine food products

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How? Where?

- Organically managed and family farms
- Small and/or sloping farm areas (vineyards, mountain,...)
- •Forestry practices which mimics natural systems.



APTRAN Associação Portuguesa de Tracção Animal

Sobre a APTRAN ACTIVIDADES LIGAÇÕES E NOTÍCIAS GALERIA ARTIGOS E PUBLICAÇÕES CONTACTOS









Three scenarios for tractive power were selected:

- draught horse power
- diesel tractor
- •combination of draught horse power and rapeseed oil fueled tractor.



The most reasonable scenario for self-sufficiency for this farm is when draught horse power is combined with tractor (and combine harvester) driven on locally produced rapeseed oil.





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Leisure / tourism



Equestrian tourism is professionally organised and is linked to many equestrian events that highlight the rural scene, natural landscapes and traditions.





http://guiastecnicos.turismodeportugal.pt/pt/equestre

http://www.turismo-ecuestre.es/idioma.html

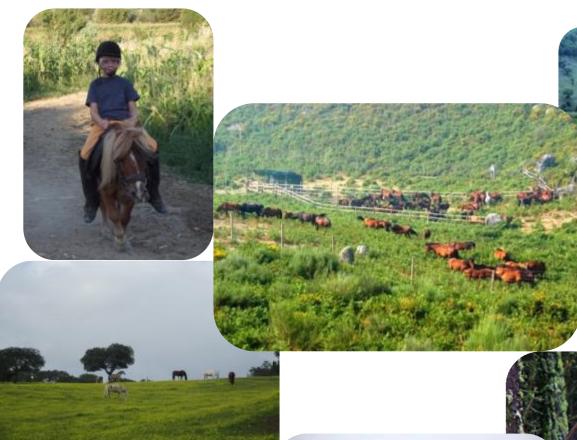




Leisure / tourism

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Equine-assisted therapies

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Equine-assisted psychotherapy: a mental health promotion/intervention modality for children who have experienced intra-family violence

Empowering Abused Women Through Equine Assisted Career



children and horses: a pilot study and meta-analysis

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Early Child Development and Care

DOI:

Volume 183, Issue 7, 2013

10.1080/03004430.2012.693486

Jan Yorke^{a*}, William Nugent^b, Elizabeth Strand^{bc}, Rebecca Bolen^b, John New^c & Cindy Davis^b





Biological tool equines...



- Selective eaters
- Volatile feeding behaviour (grazer, browser);
 - Biodiversity maintenance;
 - Control shrub encroachment in mountain (and other) areas; (Ferreira et al., 2007, 2009; Couto et al. 2013)

Vienna Introduces the World's Most Elegant
Lawnmowers to City Parks Grazing Lipizzaner mares and foals mow the grass, fertilize the earth, and draw crowds

http://equusmagazine.com/blog/vienna-spanish-riding-school-maresfoals-worlds-elegant-lawnmowers-parks-23772





Biological tool equines...

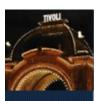


•Establishing ways to preserve and control the horse herd long term to eliminate the negative and retain the positive values they have!

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Other interesting things going on



RESEARCH

- •Production diseases in horses (EGUS, EMS, Laminitis, OCD's);
- Manure management;

Stereotype behaviors in stalled horses:







"Big changes are coming on the "horse" world..."

Equine Power in Mediterranean areas: Is there a place for it?













http://equineink.com/tag/horse-cartoon/

Yes! In the Mediterranean and all over!

Thank you for your attention!

