Exploring the impacts of CAP relative to climate with respect to adaptation

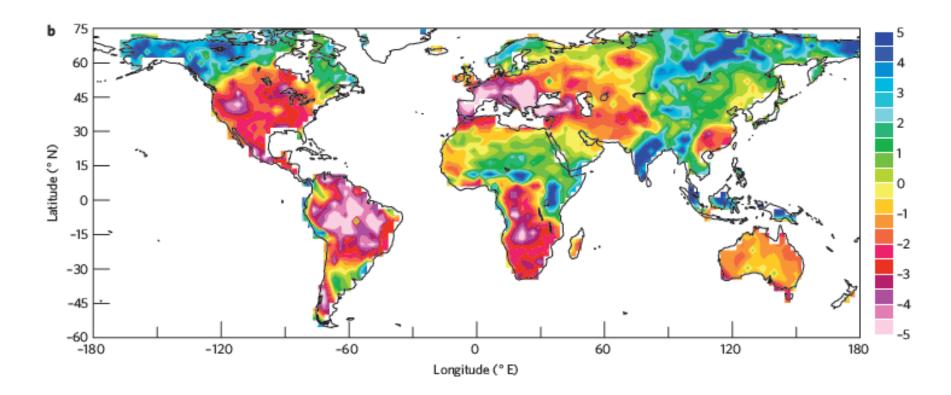
> Ana Iglesias UPM, Spain



I wish to support the following argument:

 Adaptation policy is not enough to compensate climate risks or to take advantage of opportunities

Too hot, too dry for crops, more floods



Source: Dai 2012, Science. Future changes in soil moisture (PDSI, percentage changes from 1980–1999 to 2080–2099)

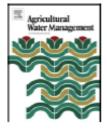
Agricultural Water Management 155 (2015) 113-124



Contents lists available at ScienceDirect

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Review

Adaptation strategies for agricultural water management under climate change in Europe



Ana Iglesias^{a,*}, Luis Garrote^b

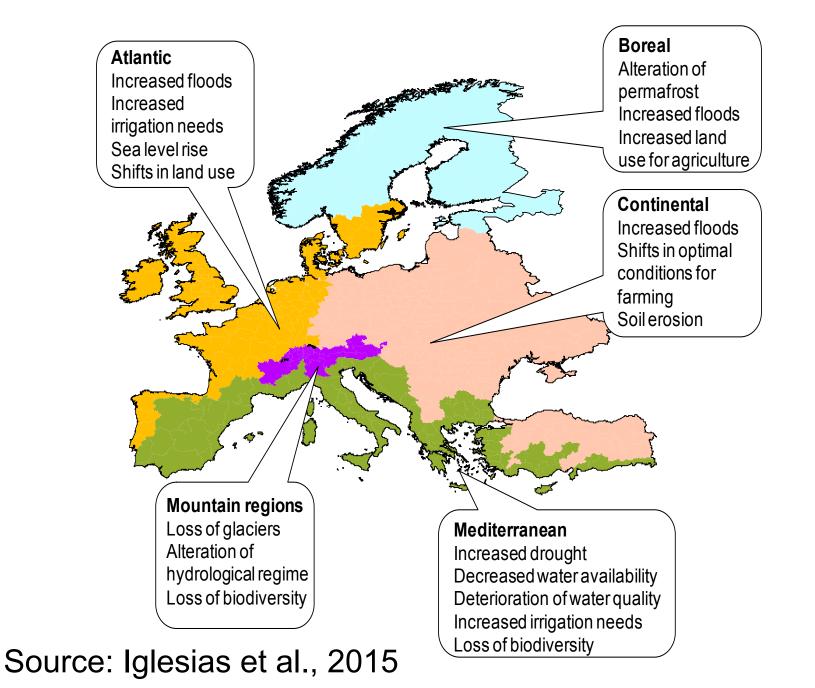
^a Department of Agricultural Economics and Social Sciences, Universidad Politecnica de Madrid, Spain ^b Department of Civil Engineering, Universidad Politecnica de Madrid, Spain

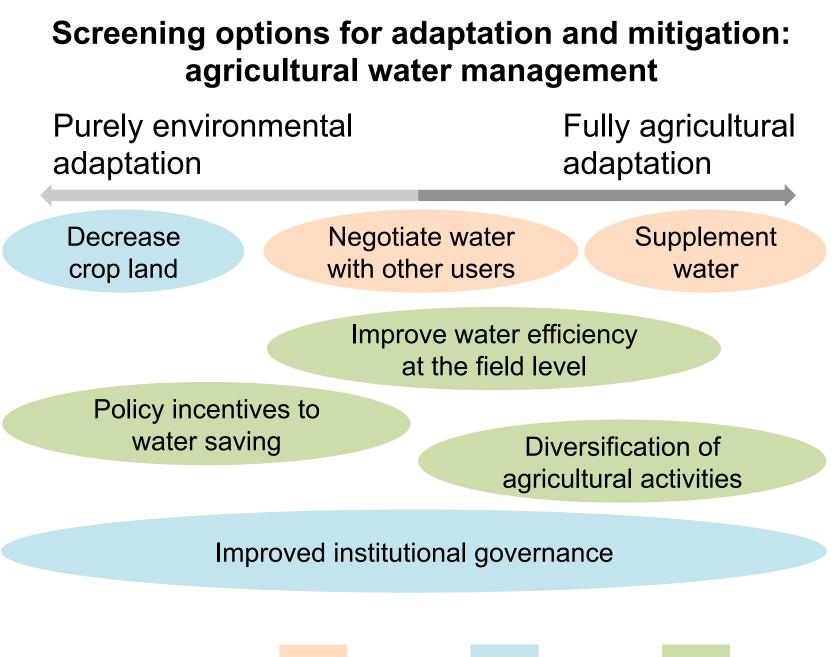
ARTICLE INFO

Article history: Received 9 December 2013 Accepted 18 March 2015

ABSTRACT

Climate change is expected to intensify the existing risks, particularly in regions where water scarcity is already a concern, as well as create new opportunities in some areas. Efforts to develop adaptation strategies for agricultural water management can benefit from understanding the risks and adaptation strategies proposed to date. This understanding may assist in developing priorities for the adaptation of





Mitigation potential

Low

Med





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Agriculture, Ecosystems and Environment

journal homepage: www.elsevier.com/locate/agee

Socio-ecological adaptation to climate change: A comparative case study from the Mediterranean wine industry in France and Australia

Anne-Laure Lereboullet^{a,*}, Gérard Beltrando^a, Douglas K. Bardsley^b

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ARTICLE INFO

Article history: Received 25 January 2012 Received in revised form 25 October 2012 Accepted 31 October 2012 Available online 12 December 2012

ABSTRACT

The article aims to present a systemic and comparative framework to study adaptation to climate change in agricultural systems. Mediterranean viticulture, projected to experience significant and rapid changes in climate, is used as a case study. We apply an international socio-ecological approach focusing on viticulture in Roussillon (France) and McLaren Vale (Australia). Mixed-methods, including analysis of meteorological data, semi-structured interviews and field observations, guide an analysis of the exposure,

Full benefit of measures =

benefit of adaptation

adjustment to risks and opportunities (local): effort or benefit of implementation (local), market effects (regional, global)

+ benefits of mitigation

adjustment to policy targets (global): effort or benefit of implementation (local), market effects (regional, global), reduction of GHG (global)

	Benefit of mitigation
Global-only measures	Smart measures
Loss of adaptation	Benefit of adaptation Local-only
Incoherent measures Loss of mitigation	measures (self-benefit)

ENVIRONMENTAL SCIENCE & POLICY 47 (2015) 167-176



A user perspective on the gap between science and decision-making. Local administrators' views on expert knowledge in urban planning

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CrossMark

Reducing vulnerability: policy action

(Iglesias et al., 2010)

HadCM3/HIRHAM B2 scenario, 2071-2100, (% yield change)

Region	Adap.Policy Urban / Env (1)	Adap.Farm (2)	Adapt.Policy Econ /Rural Dev (3)		
Boreal	25 to 30	34	35 to 40		
Atlantic South	-10 to -10	-7	-5 to 0		
Cont. North	0 to 5	4	5 to 10		
Alpine	10 to 20	23	25 to 40		
Med. South	-50 to -25	1	0 to 20		

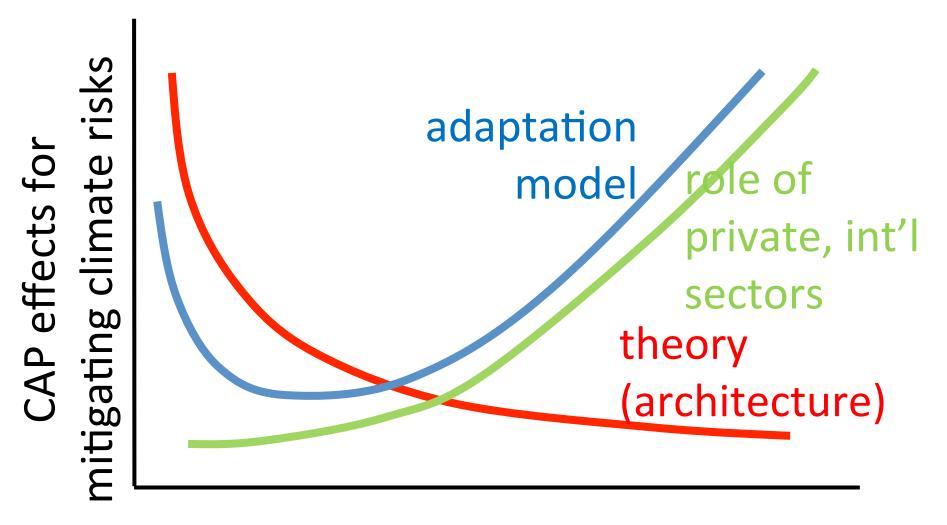
(1) Emphasis on water resources protection and urban development

- (2) Farm adaptation without policy support (private)
- (3) Emphasis on agricultural production and rural development

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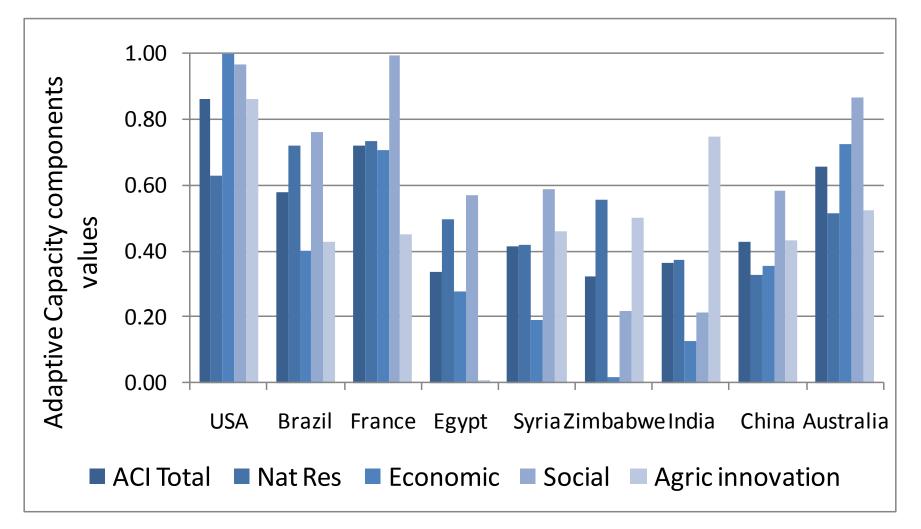
Climate change risk to 'one in six species'

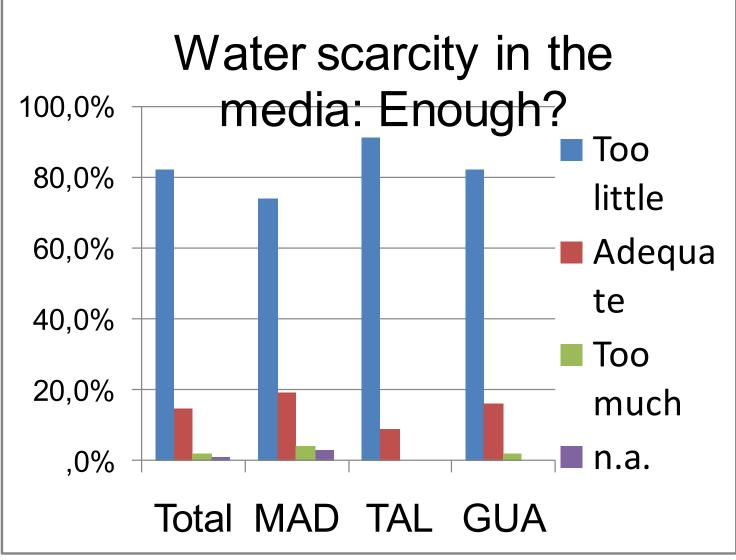




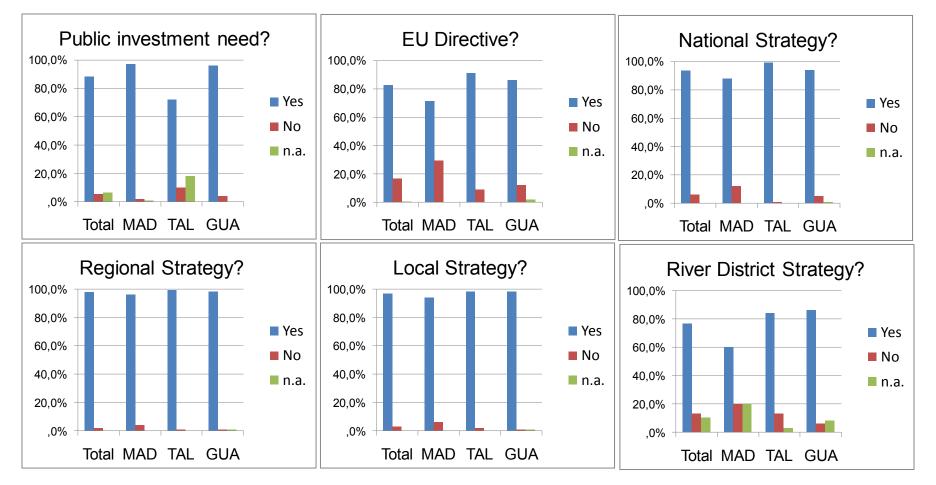
Complexity of CAP

Adaptive capacity: components

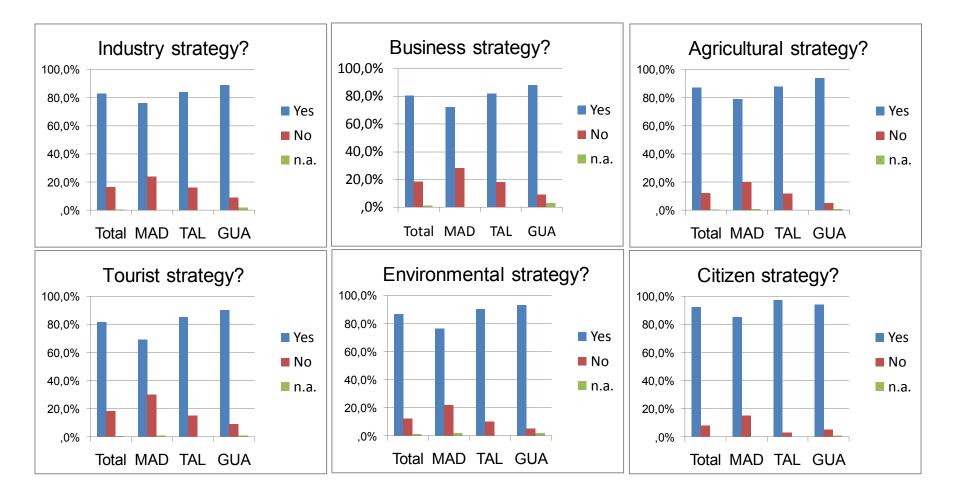




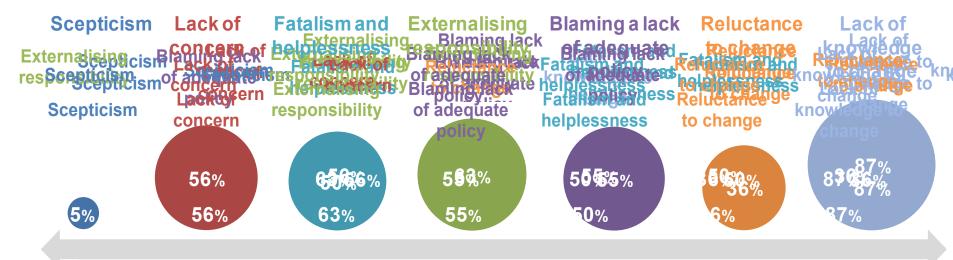
Adaptation: Institutional responsibilities



Adaptation: Sectoral responsibilities



García de Jalón et al (2014) Behavioural barriers



Barriers most complicated to overcome vereariers most complicated to overcome Barriers most complicated to overcome Barriers method ing personal beliefs, Barriers remover pricated to overcome Barriers remover and the second stated to overcome

Thank you!











