

# Program SAG Eururalis

1. Opening
2. Presentation main conclusions
3. Presentation biofuels
4. Lunch & play
5. Feedback from SAG
6. How to continue
7. Wrap up and closing



EURURALIS



# The EU dimension beyond 2013

## Eururalis 2.0

Insight in the future  
Trends, challenges and options for  
EU rural areas

Schiphol, July 2007  
Wageningen UR  
MNP





# When we started....

- Still discuss future of rural Europe
- More interactivity
- Implementation of policy options
- Bio-energy
- Balanced PPP indicators
- Global – EU – national – regional scales
- International cooperation

# Same scenarios



# Implemented policy options

- CAP 1 –market support  
100% - 50% - 0% of current budget
- CAP 2 –income support  
150% - 100% - 50% - 0%
- Ambition on biofuels  
Low - medium
- LFA – area designated for extra payment  
current – reduced – No LFA



## Eururalis results & conclusions

The results of Eururalis show what could happen to future Europe.

The highlights of Eururalis are summarized in the results and conclusions section.

The main conclusions are:

1. Privata impensa comparavi, per quem rem publicam a dominatione factionis oppressam in libertatem vindicavi.
2. Eo nomine senatus decretis honorificis in ordinem suum me adlegit C. Pansa et A. Hirtio consulibus
3. Sententiae dicendae tribuens et imperium mihi suum dedit.
4. Res publica ne quid detrimenti caperet, me pro praetore simul cum consulibus providere iussit. Populus autem eodem anno me consulem.
5. Cum consul uterque in bello cecidisset, et triumvirum rei publicae constituendae creavit. Privata impensa.
6. Per quem rem publicam a dominatione factionis et oppressam.
7. In libertatem vindicavi. Eo nomine senatus decreti honorificis in ordinem suum me adlegit C. Pansa et A. Hirtio consulibus consularem locum sententiae
8. Dedit res publica ne quid detrimenti caperet, me praetore simul cum consulibus providere iussit. Populus autem eodem anno me consulem.
9. Cum consul uterque in bello cecidisset, et triumvirum rei publicae constituendae creavit. Privata impensa comparavi, per quem rem.
10. A dominatione factionis oppressam in libertatem vindicavi.

**Eururalis results & conclusions →**

## Explore your future

What will happen to Europe the forthcoming time?  
What kind of threats and opportunities can we expect?  
What regional differences will occur?  
Can policy make a change?

**Explore this yourself with the interactive tool!**



The Eururalis tool enables you to explore the future of Europe. You can compose your preferred policy scenario by choosing one of the contrasting reference scenarios and adapt this base scenario by adjusting the settings for the strategic policy options. The results of your policy scenario will be provided to you in maps and graphs about People, Planet and Profit issues and on Land-use for the next decades in 10 year time steps. An integrated overview is presented in a so-called spider diagram. By interacting with the policy options and the scenarios you will get an idea of the possible futures of Europe and of impact of the policy options on reaching your desired future Europe.

**Explore your future →**

## Eururalis background

Eururalis highlights policy issues in European rural areas. Eururalis links data of People, Planet, Profit and Land-use. Eururalis starts from contrasting scenarios and gives outcomes for the next three decades in 10 year time-steps.

The Greek superior God, Zeus, changed himself into an attractive bull and seduced the beautiful maiden EUROPE. He then took her on his back through fields, mountains, rivers and forests. This symbolizes the beauty and diversity of Europe's rural area that still is present in many regions.



In the background you can find detailed information on the methodology, models, data and assumptions used in Eururalis 2.0. You can also find documents and presentations developed in the Eururalis 2.0 process. In the colophon you can see a list of experts that helped develop Eururalis.

**Eururalis background →**



# Indicators

## People

- Employment (index)
- Number of farms (index)
- Self sufficiency (index)

## Planet

- Livestock density
- Nitrogen surplus
- Biodiversity
- Erosion (area)
- Carbon sequestration
- Landscape change

## Profit

- Gross Domestic Production
- Share of primary agriculture in GDP
- Real farm income
- Gross Value Added per farm (index)
- Crop production
- Animal production

## Landuse

- Land-use map
- % agricultural land
- % non irrigated arable land
- % permanent pasture land
- % biofuels crops
- % natural and semi natural land
- % built up area
- Urbanization hotspot map
- Agri abandonment hotspot map

# Main conclusions

# Global driving forces shape the future of rural areas

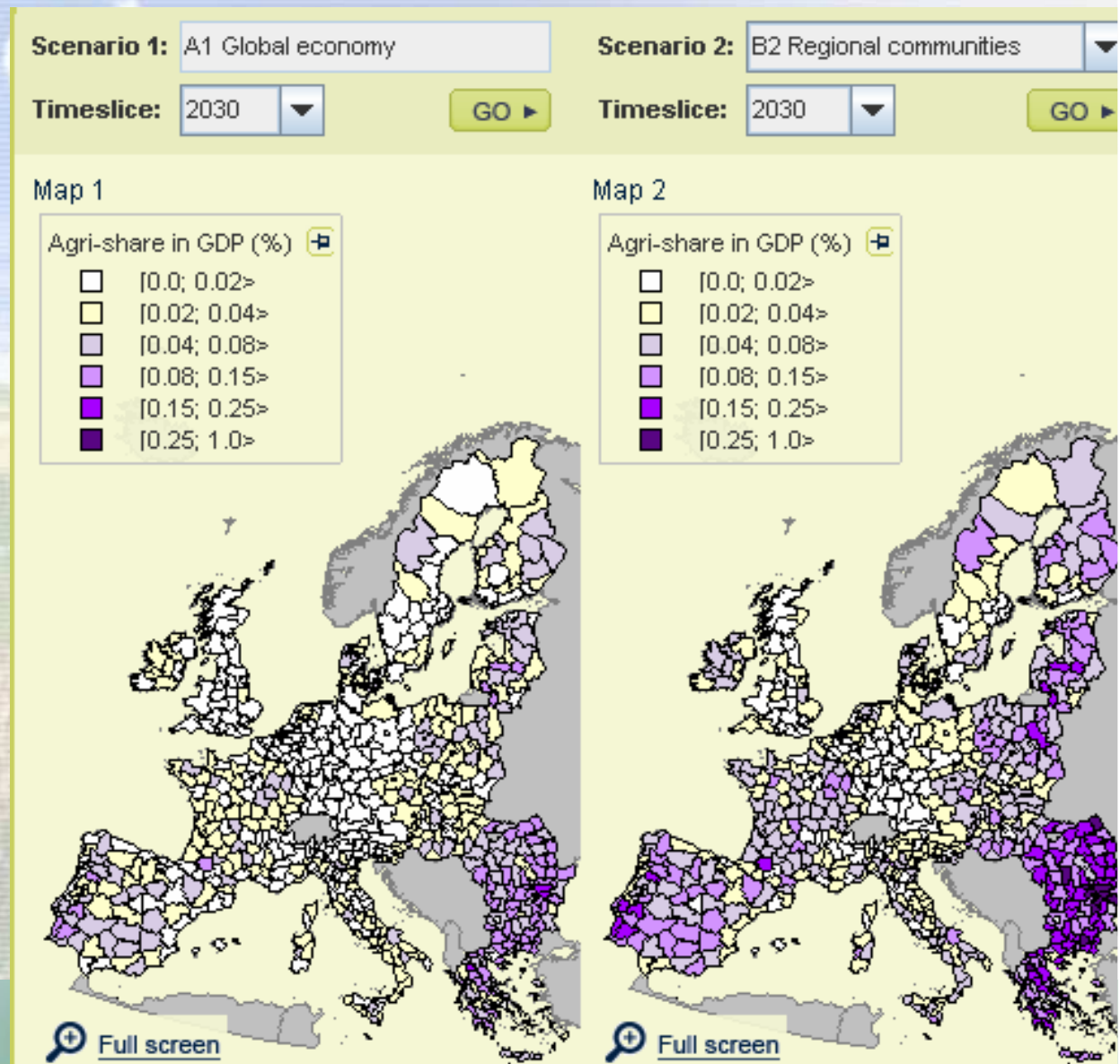
## Demographic developments

- Macro-economic developments
  - Consumer preferences
  - Agricultural technology
  - Climate change
- CAP
  - Structural policy
  - Environmental policies (national, EU, global)
  - WTO and other international commitments



# Changing role of farming

- Decreasing or already low economic significance



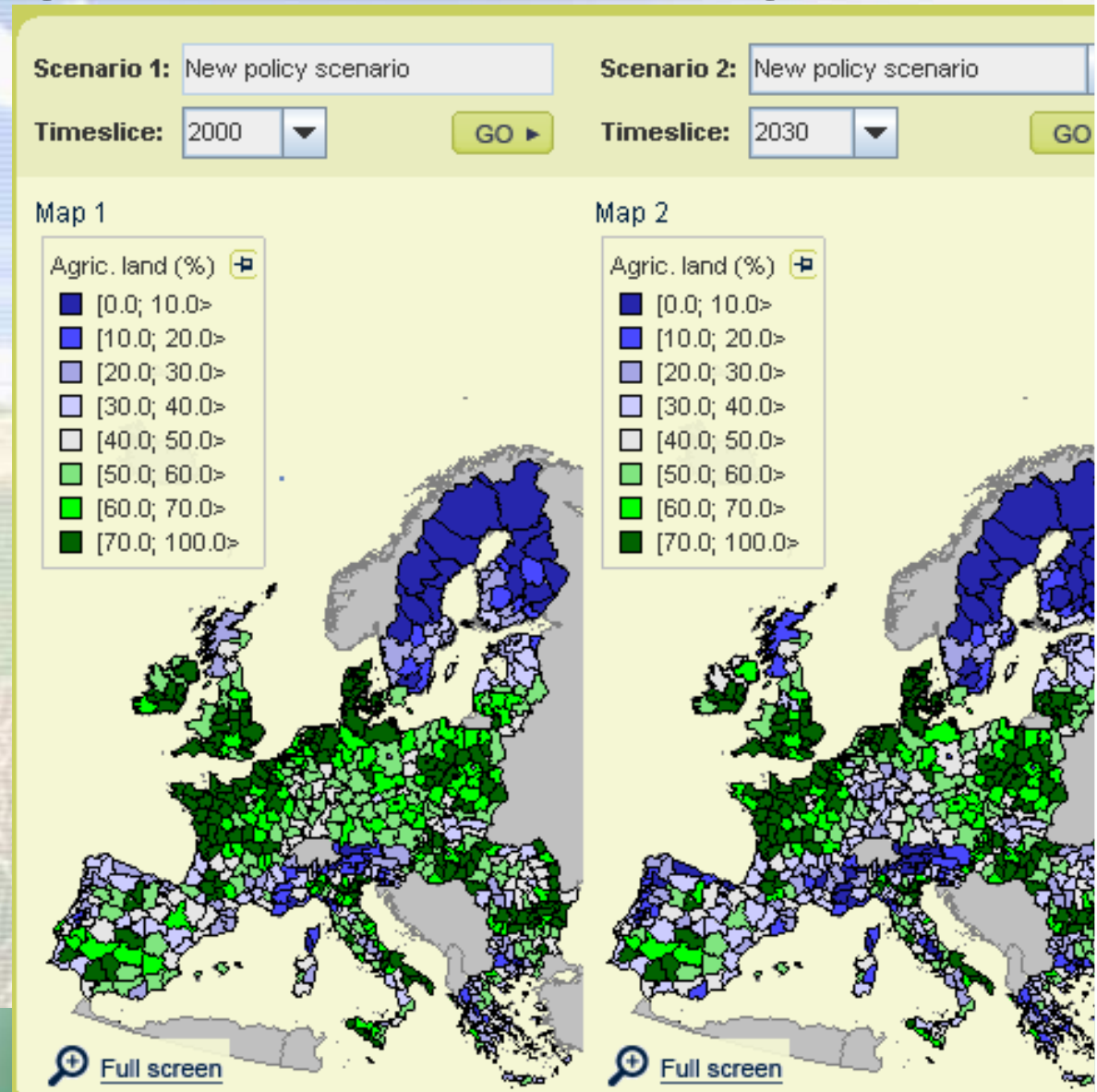
# Changing role of farming

Role for land-use  
remains strong

>40% of land remains  
agriculture in all  
scenarios

High impact on carbon,  
erosion, biodiversity,  
nutrients, landscape

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# Agricultural abandonment

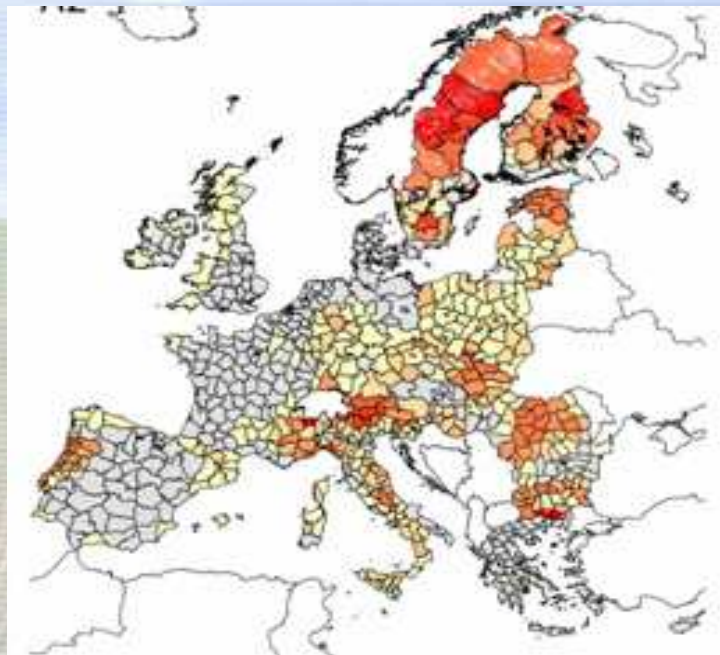
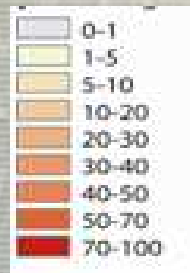
- Main land use change next 30 years
- Stable food consumption <-> technology improvement
- Large regional differences
- Policy impact is strong (CAP, biofuels)

	Global Economy	Continental Market	Global Cooperation	Regional Communities
Abandonned (% agri land)	<b>-9.0</b>	<b>-1.9</b>	<b>-12.6</b>	<b>-10.7</b>

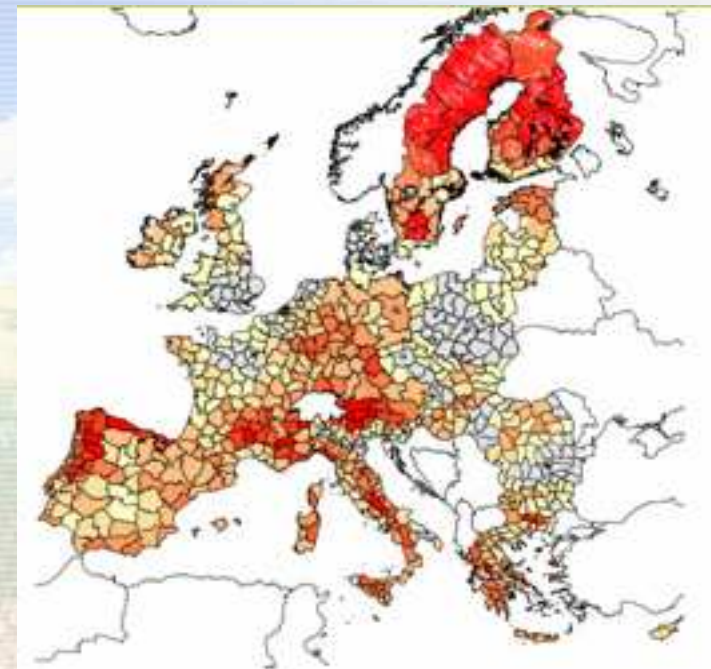


# For a lot of regions, policy matters

% abandoned land 2030

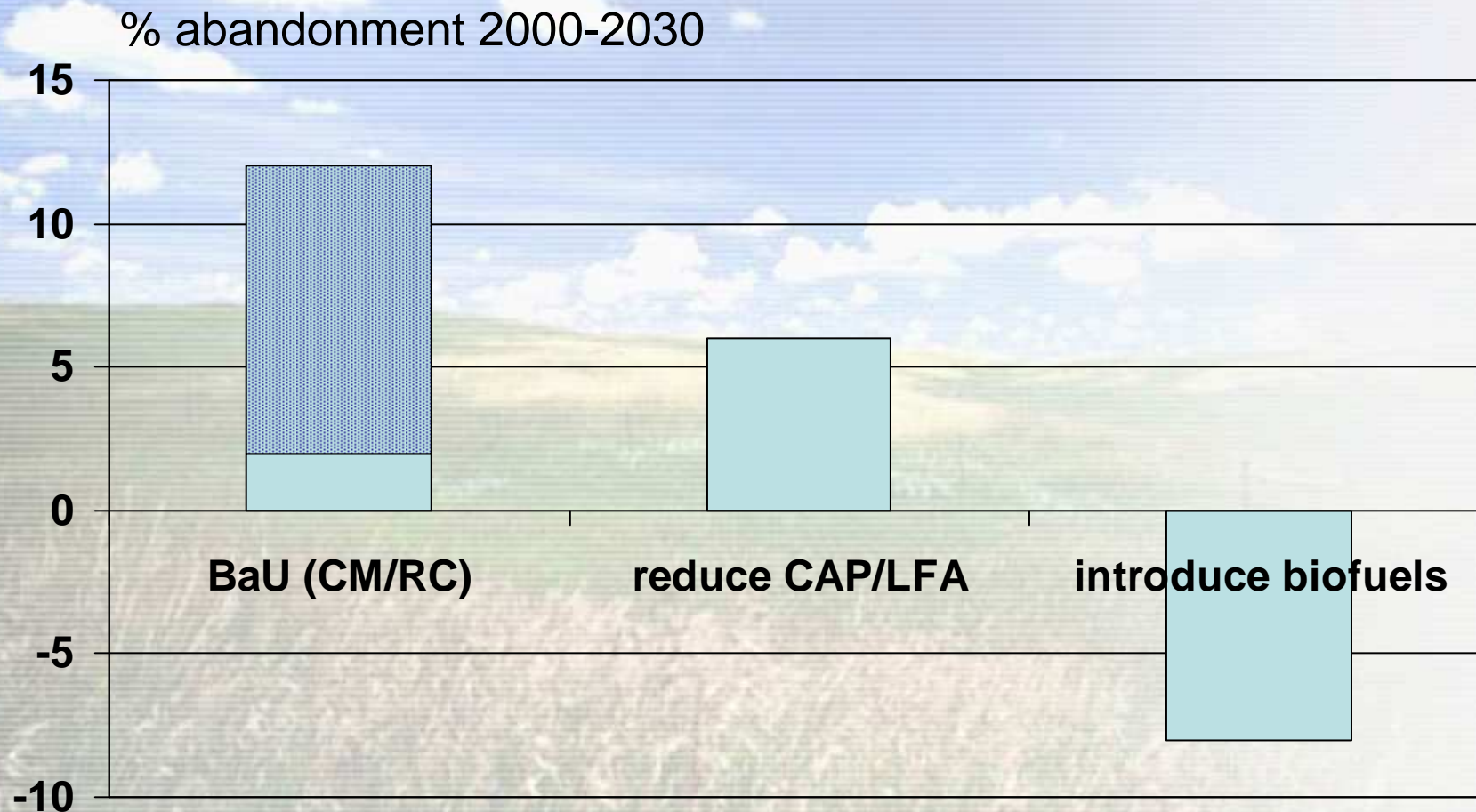


Continental Markets  
**Current CAP and LFA**



Global Economy  
**No CAP and LFA**

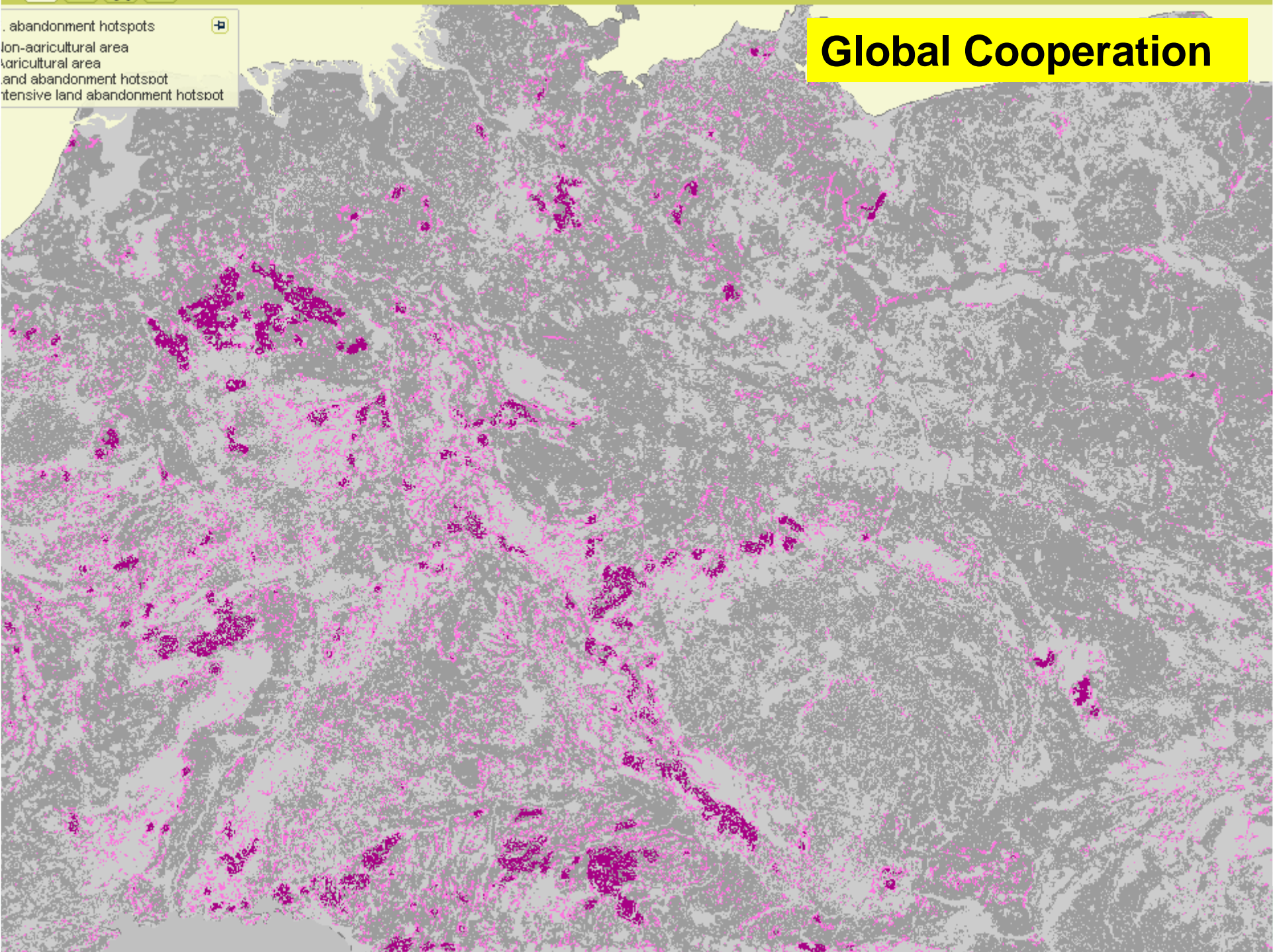
# CAP & biofuel policy: communicating vessels



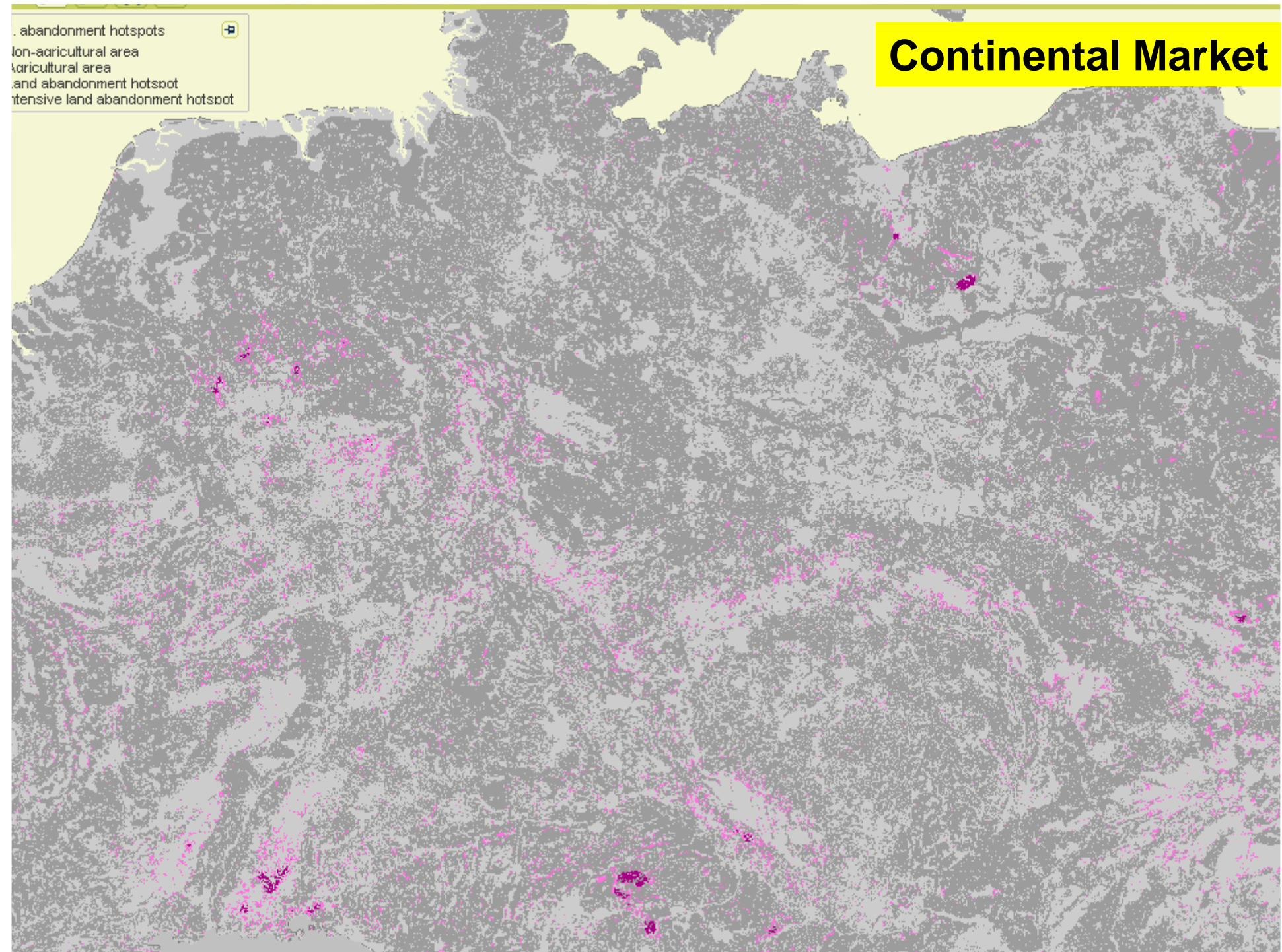


# Global Cooperation

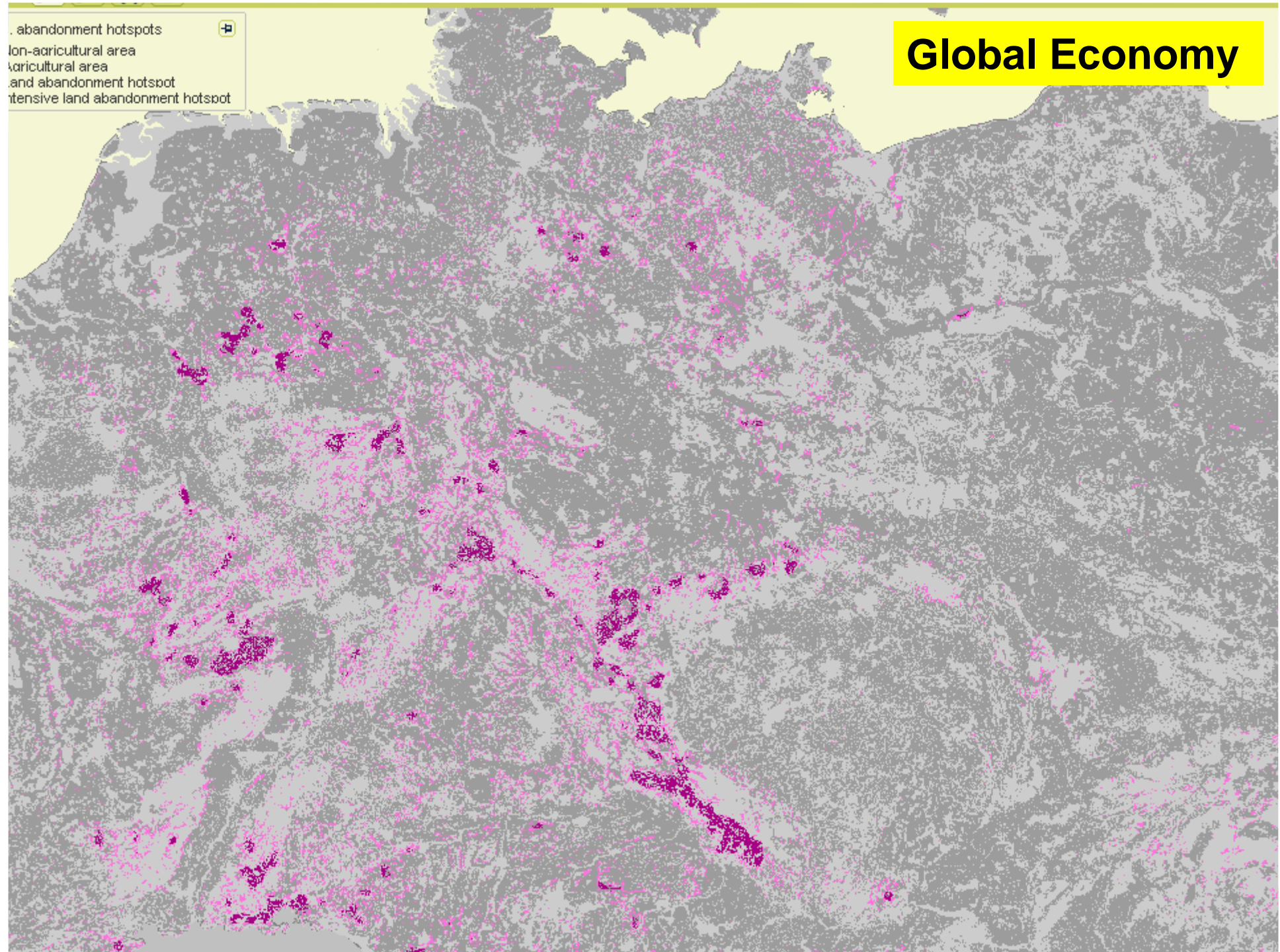
abandonment hotspots  
non-agricultural area  
agricultural area  
land abandonment hotspot  
intensive land abandonment hotspot



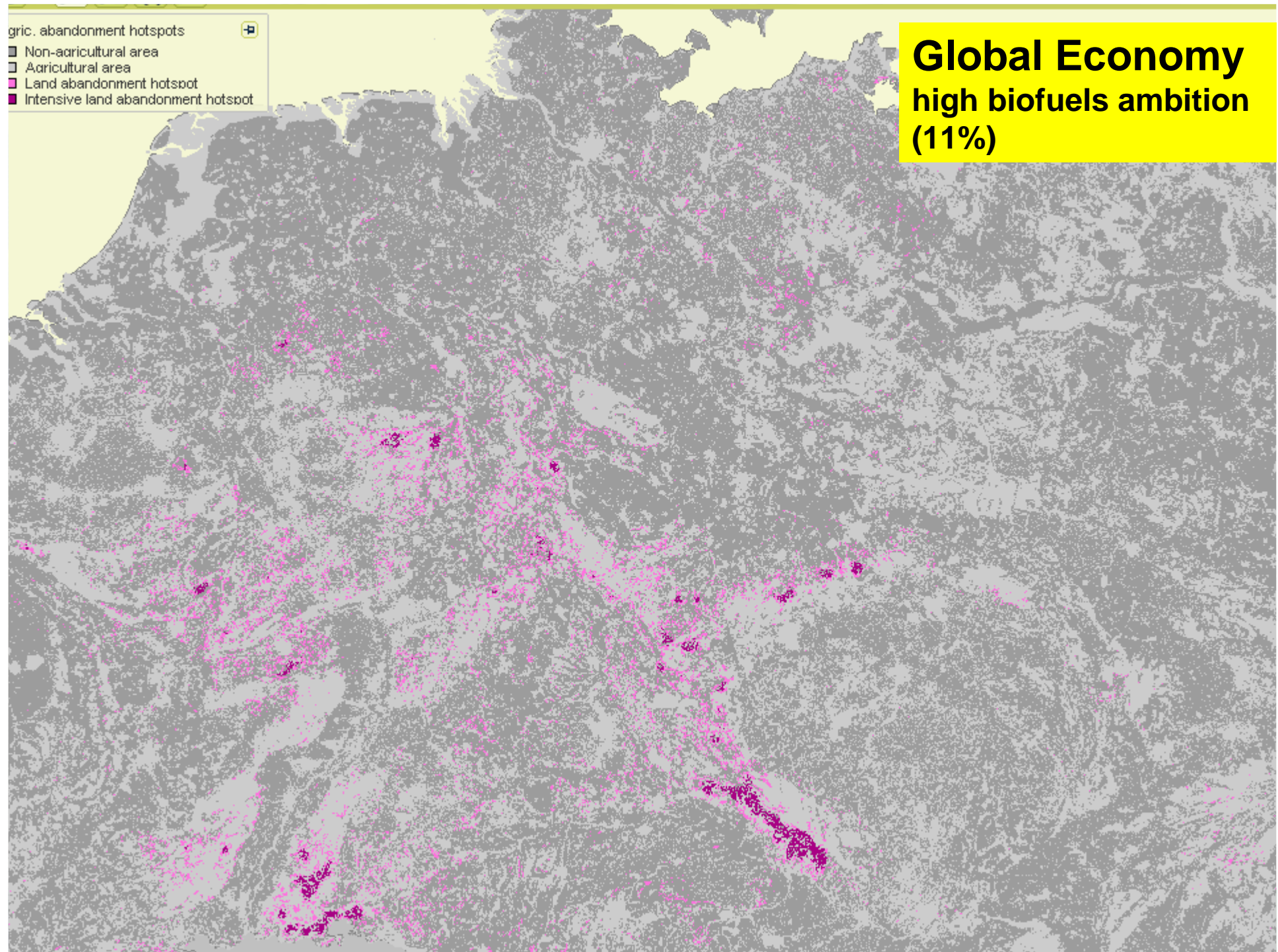




# Global Economy





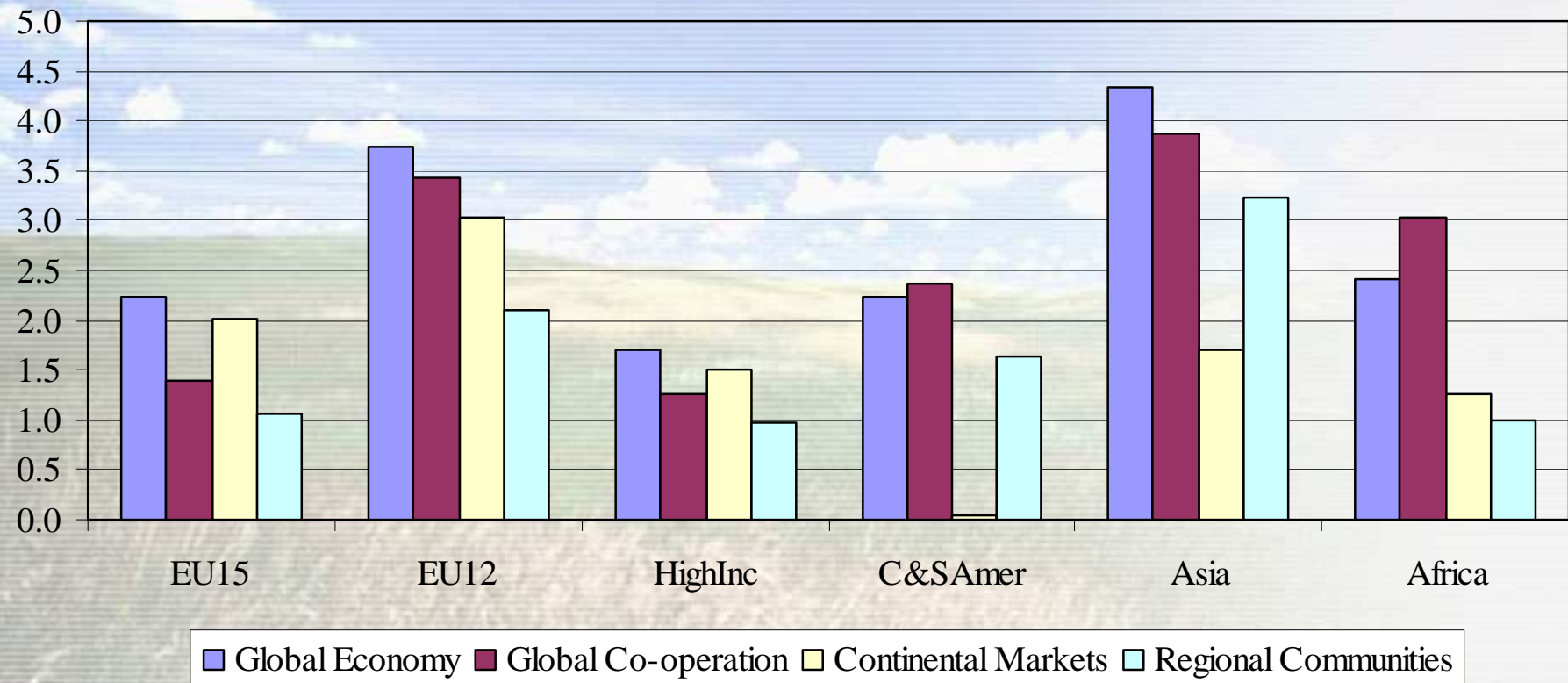




# EU12 catches up but remains behind

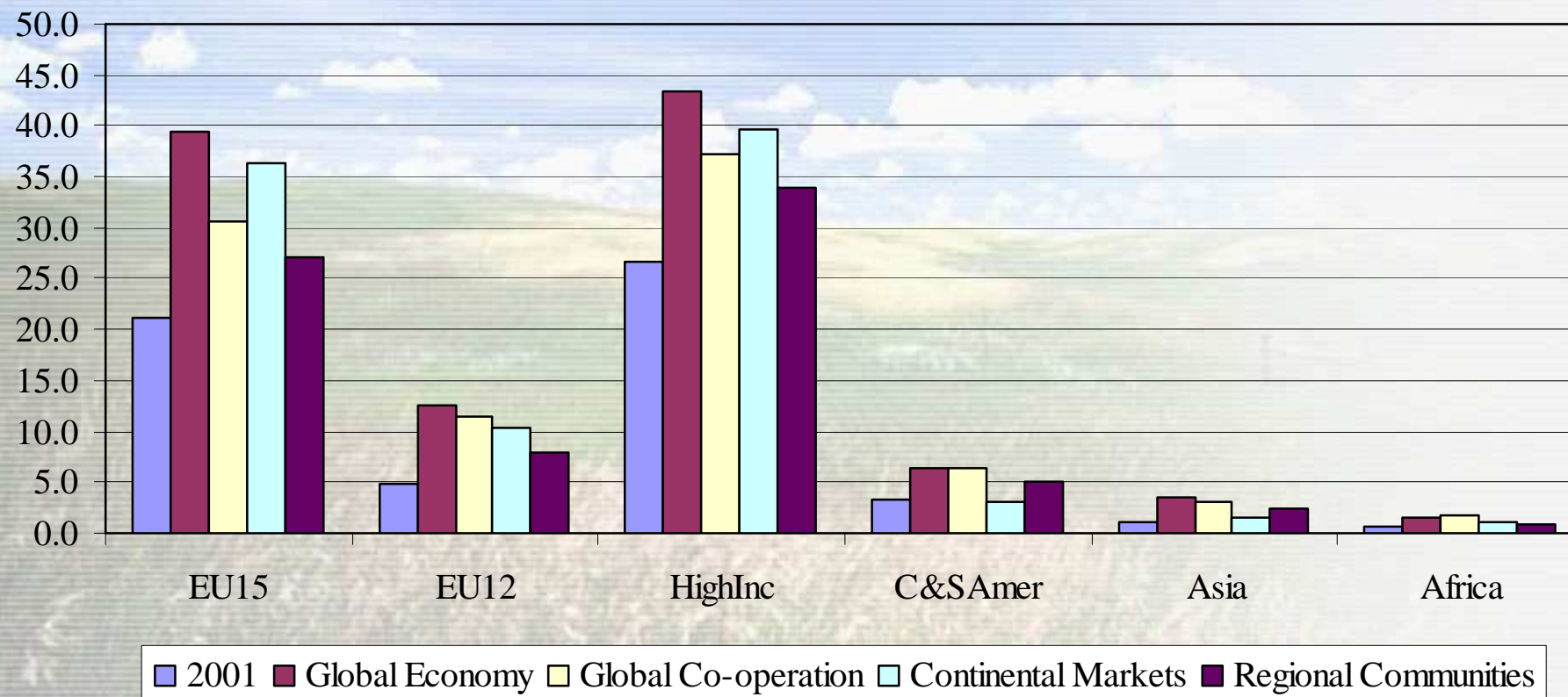
- Higher economic growth
- But also surplus agro labour
- Can it be absorbed by the regular economy?

# Change in GDP per capita, annual growth rates in %

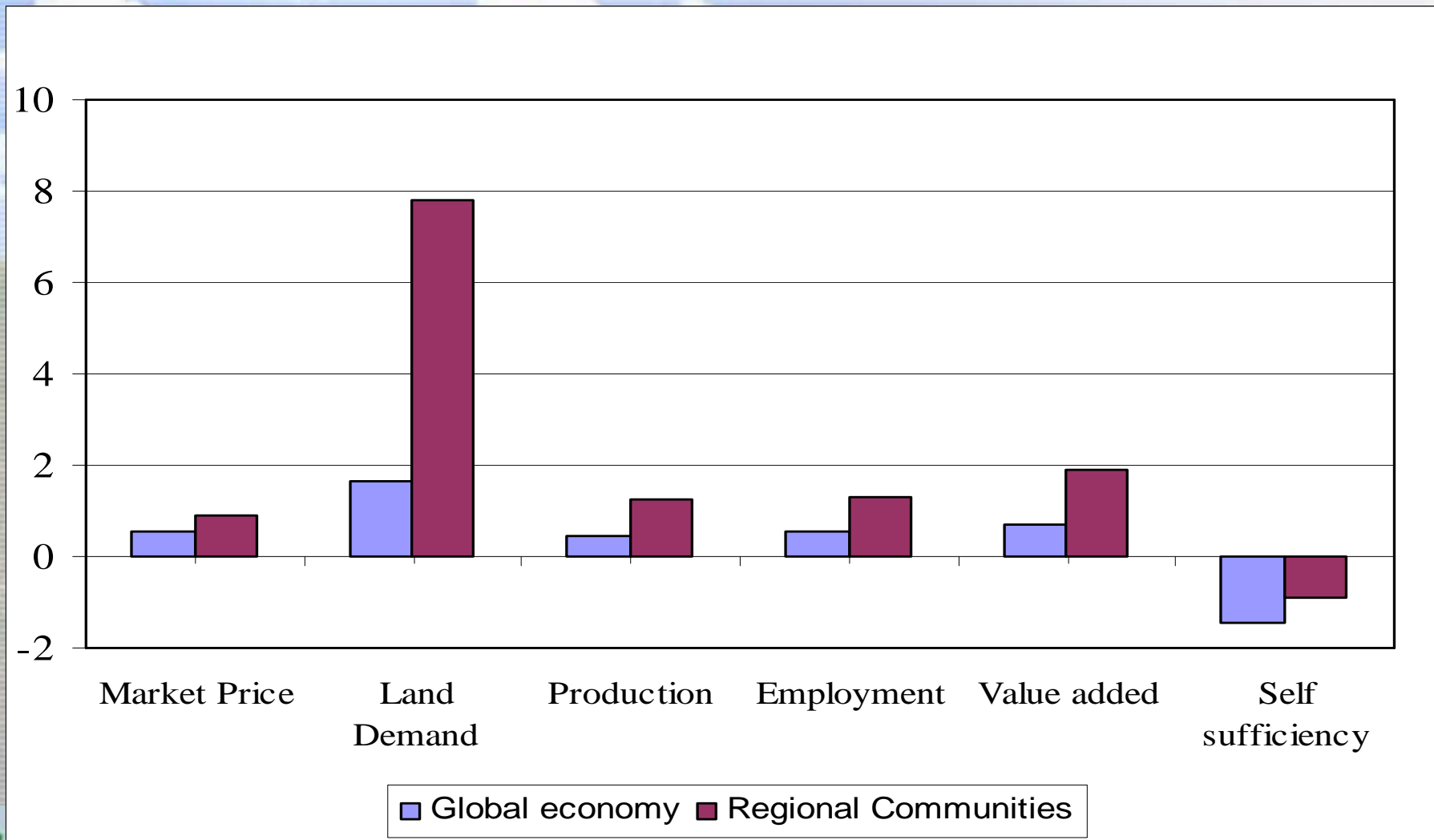




# GDP per capita, in 1000 USD in 2030



# Bio-energy - large impact on land-use and planet





# Bio-energy

## Allocation

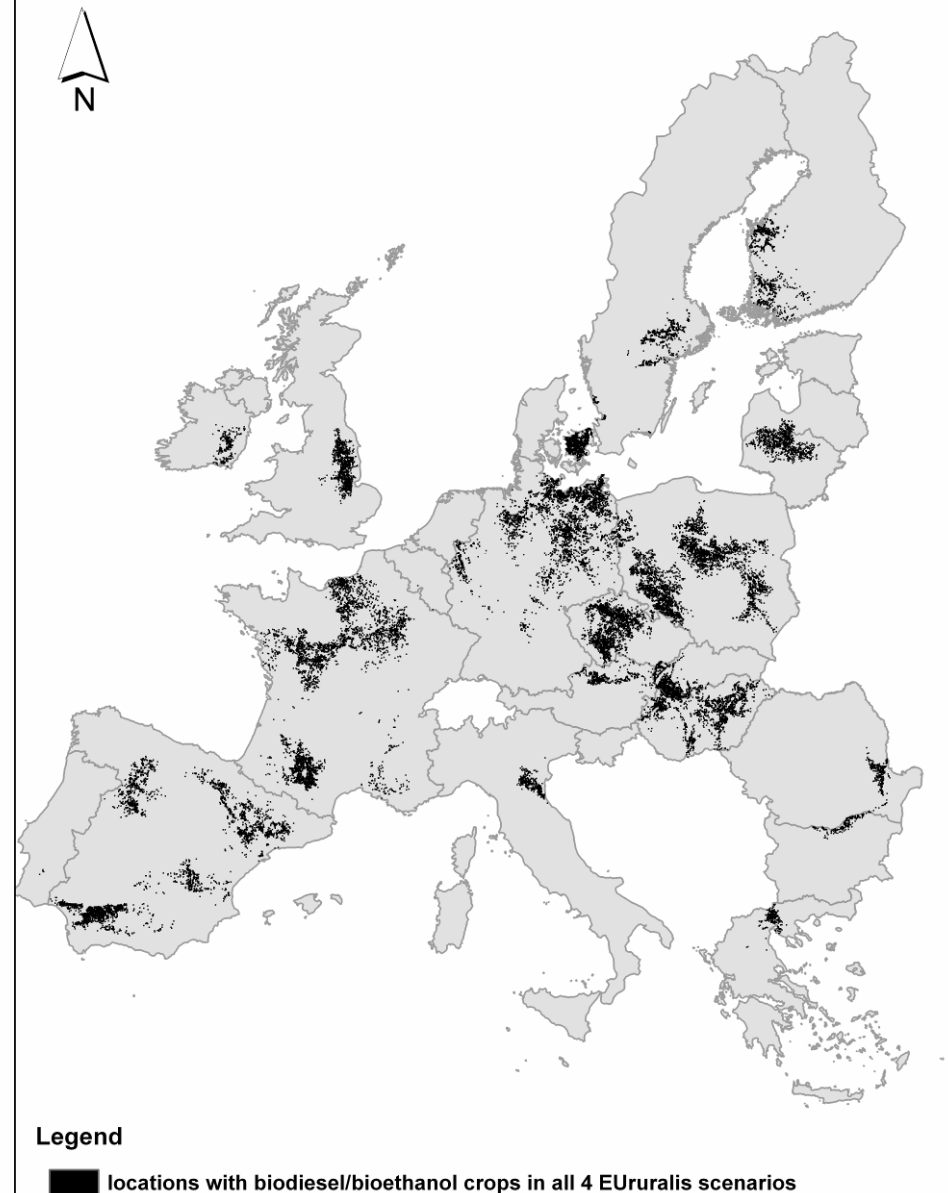
- Logistic
- Technology
- Scale

Impact on food prices???

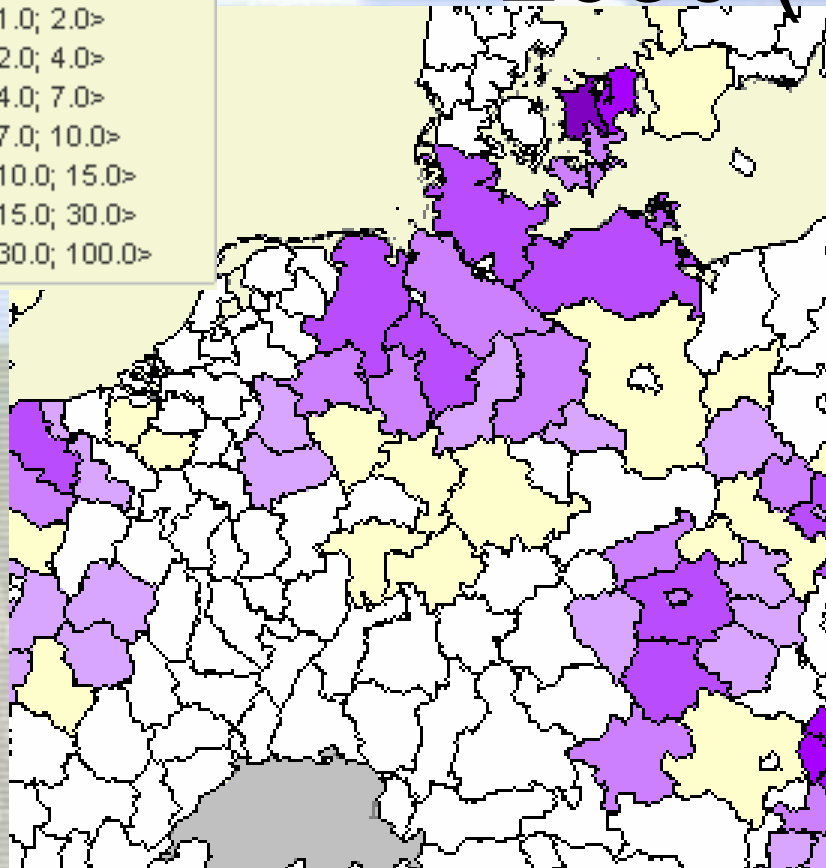
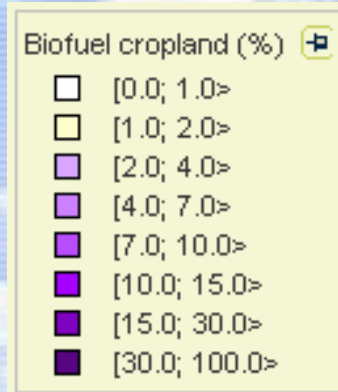
Impact global agri??

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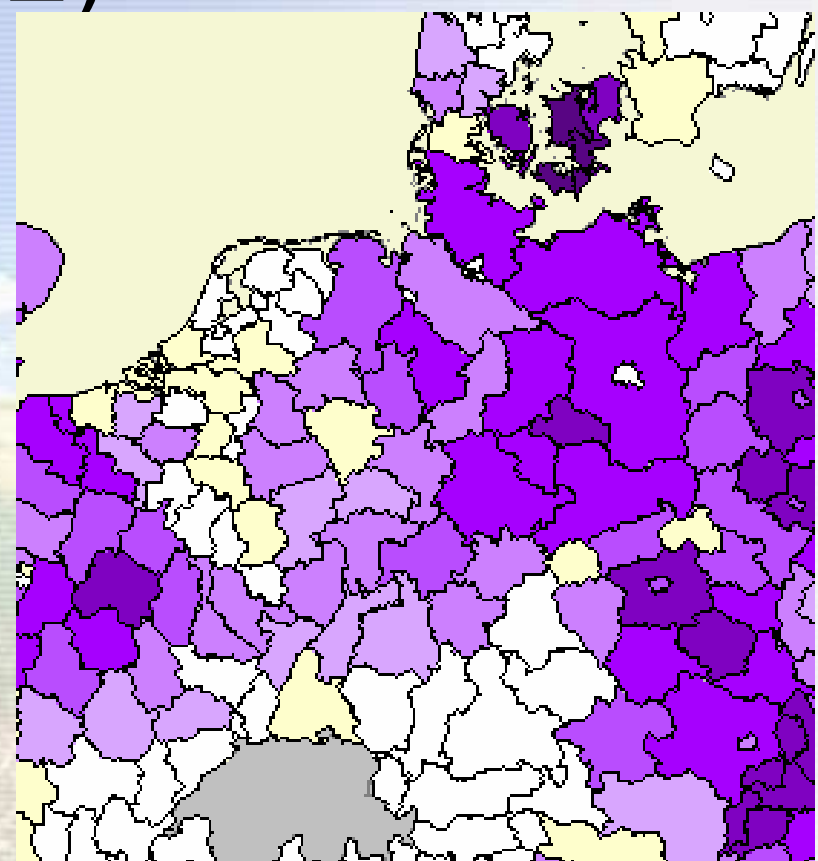
## European hotspots biodiesel/bioethanol crops



# Policy matters: Biofuel cropland 2030 (GE)



Low ambition



High ambition



# Trade offs to the rest of the world

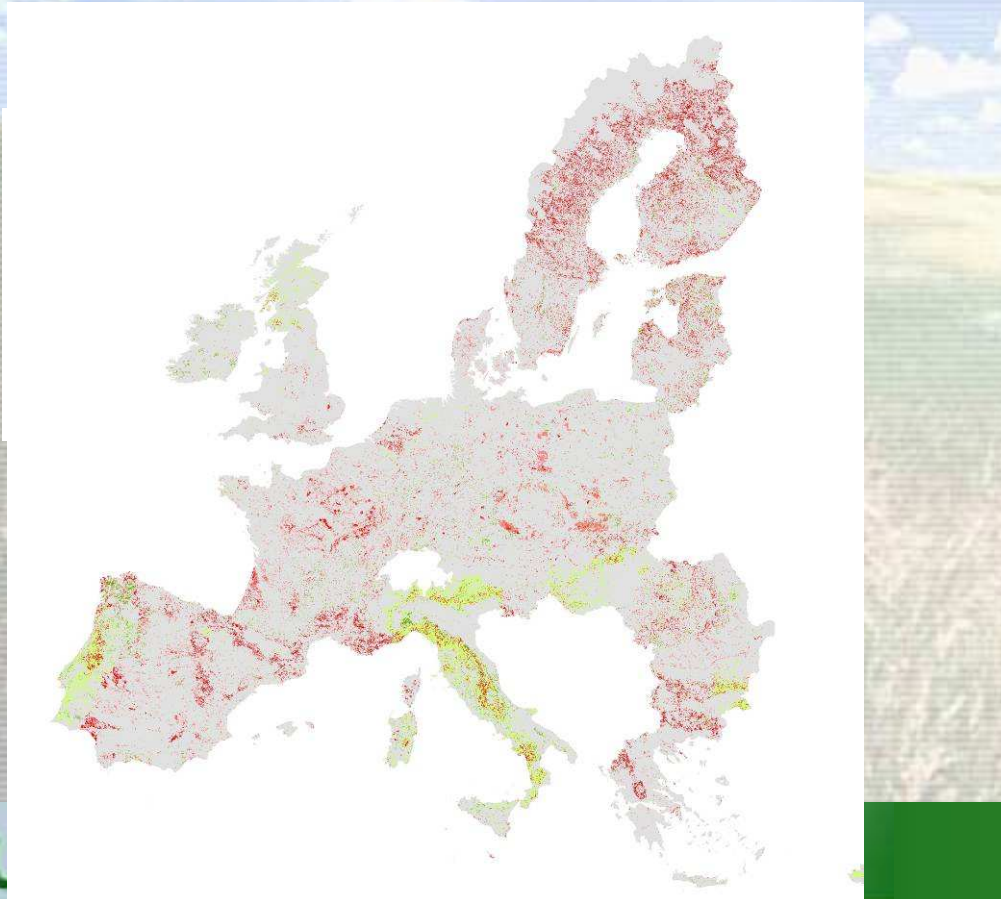
- Liberalized scenarios:
- Highest GDP growths
- More international trade
- EU: Higher biodiversity due to abandonment
- Rest of the world: also growing GDP, but also growing pressure on the land
- Biofuels: extra pressure: W-Africa / Brazil

# biodiversity

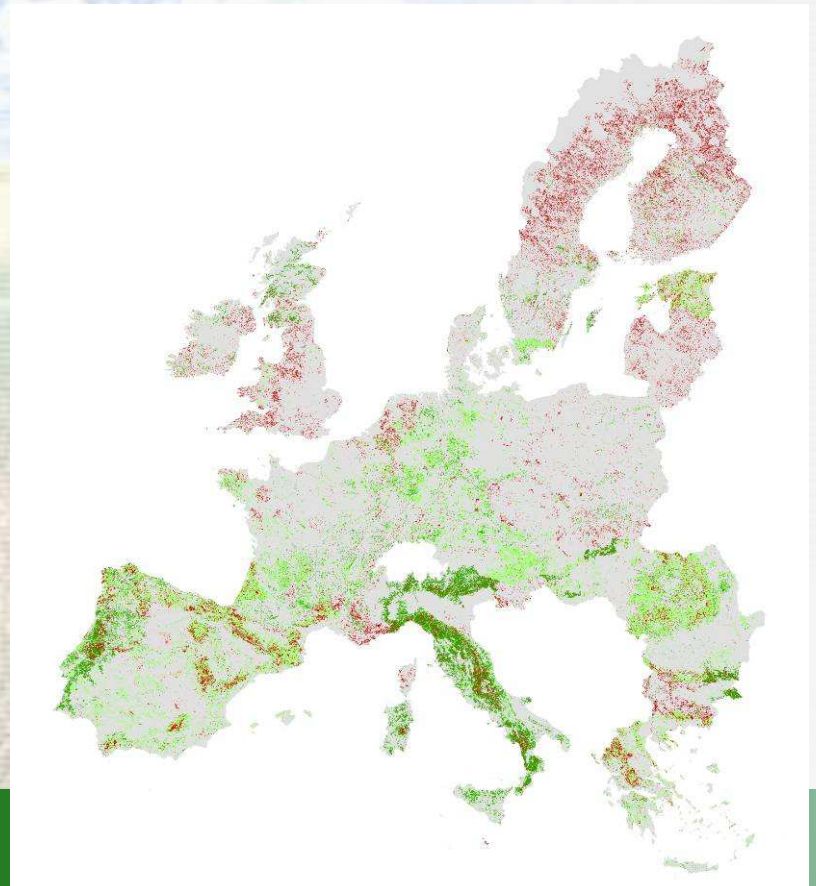
Main impact from land-use change

Spatial policies, environmental + agro environmental policies influence spatial patterns of agriculture and abandonment

## A2 – continental markets

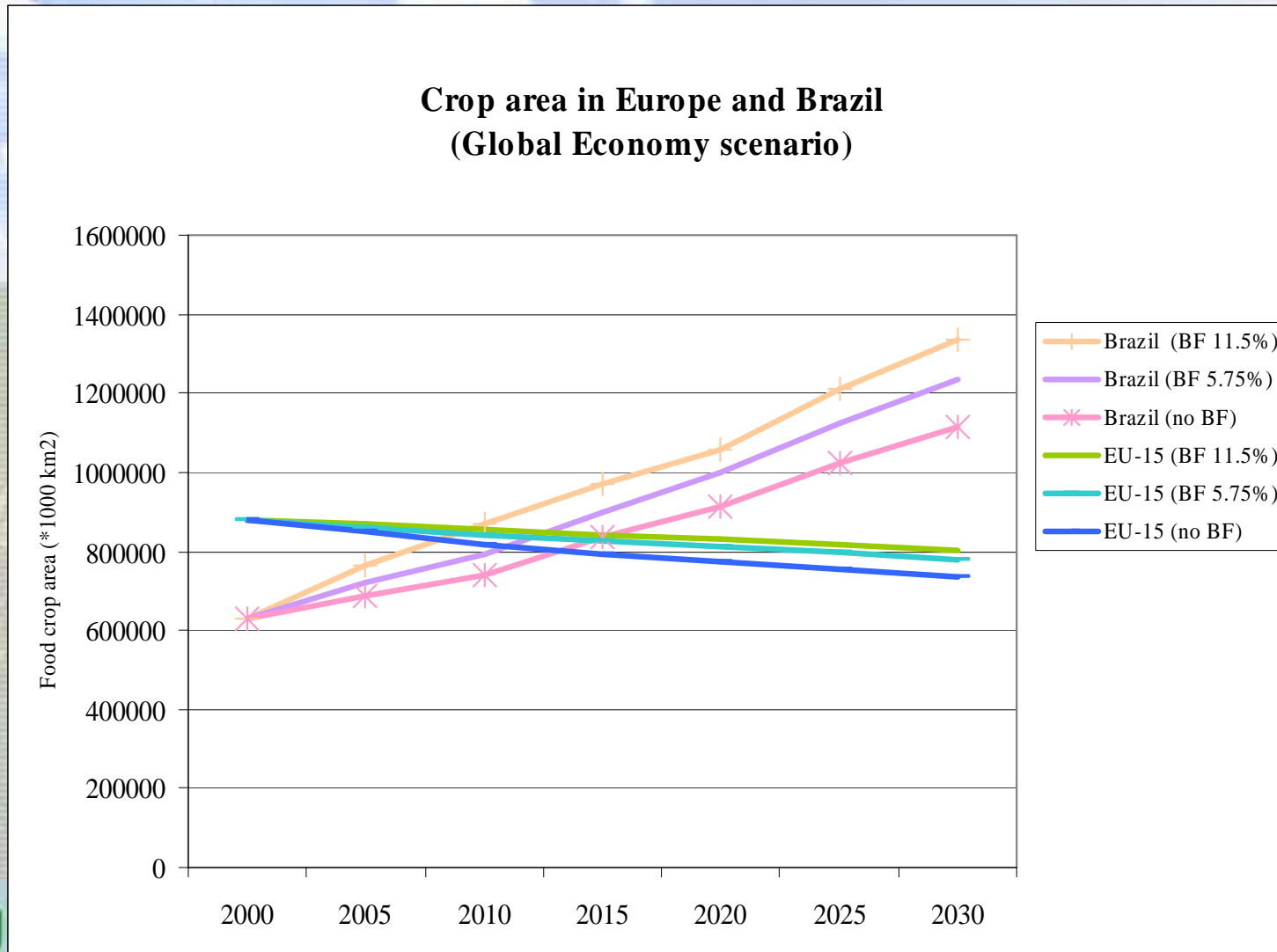


## B1 – global cooperation





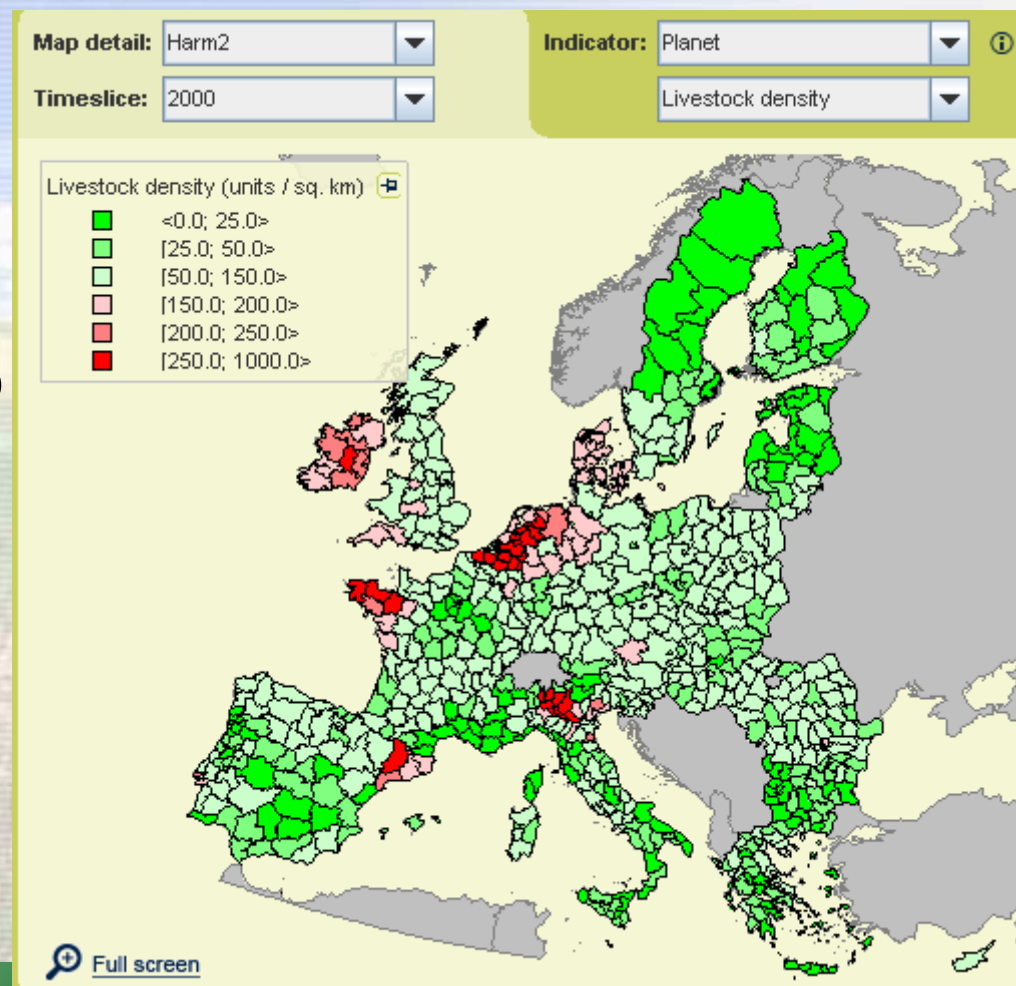
# Not to forget: biodiversity in Latin-America



# Livestock pressure too high

Hotspots of livestock

Do they have to disappear to  
meet environmental targets  
WFD and Nitrogen Directive





# Positive future for the EU27

- But spatial differences remain large
- Between member states
- Within member states – between regions

New policy scenario

A1 Global economy

A2 Continental markets

B1 Global cooperation

B2 Regional communities

## New policy scenario

## Define your own policy

Choose a reference scenario:

A1 Global economy

## 1. CAP Market support

full liberalisation decrease stable

## 2. CAP Income support

none decrease stable increase

## 3. Ambition to stimulate biofuels

low medium high

## 4. Stimulate less favoured areas

none limited current

Show result as:

☐ map ☒ spider ☐ graph

GO

Save policy scenario

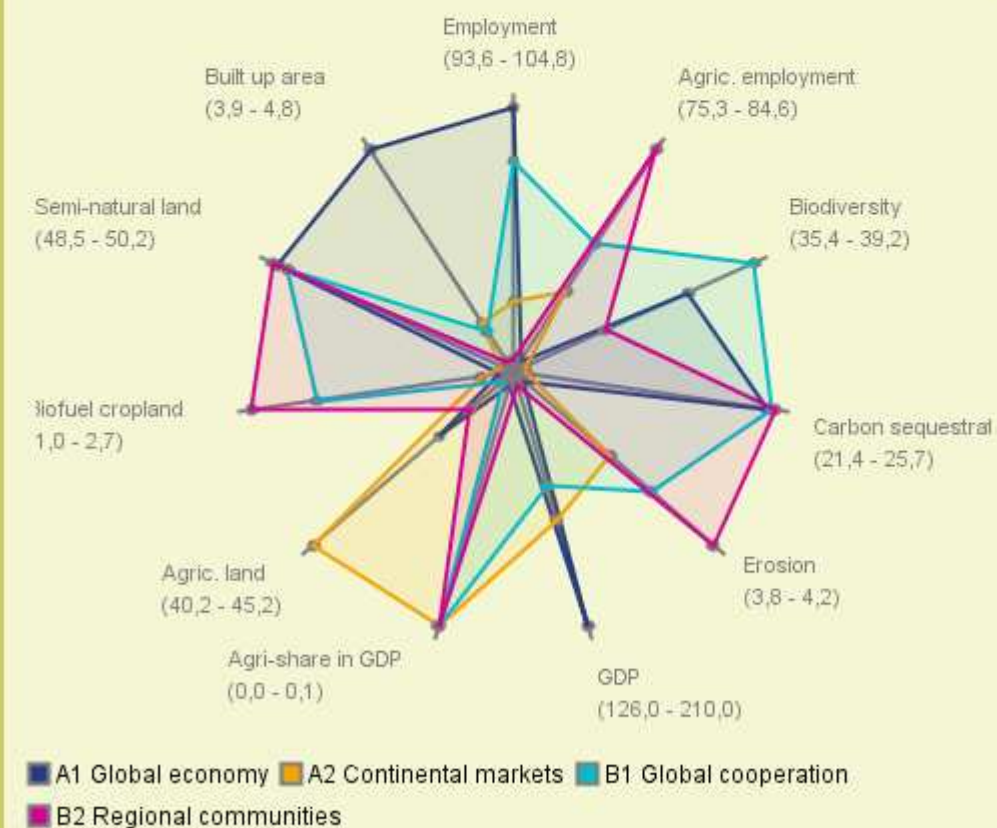
Series by : Scenario

Scale : Europe (EU)

Customize :

Indicators

Series





New policy scenario

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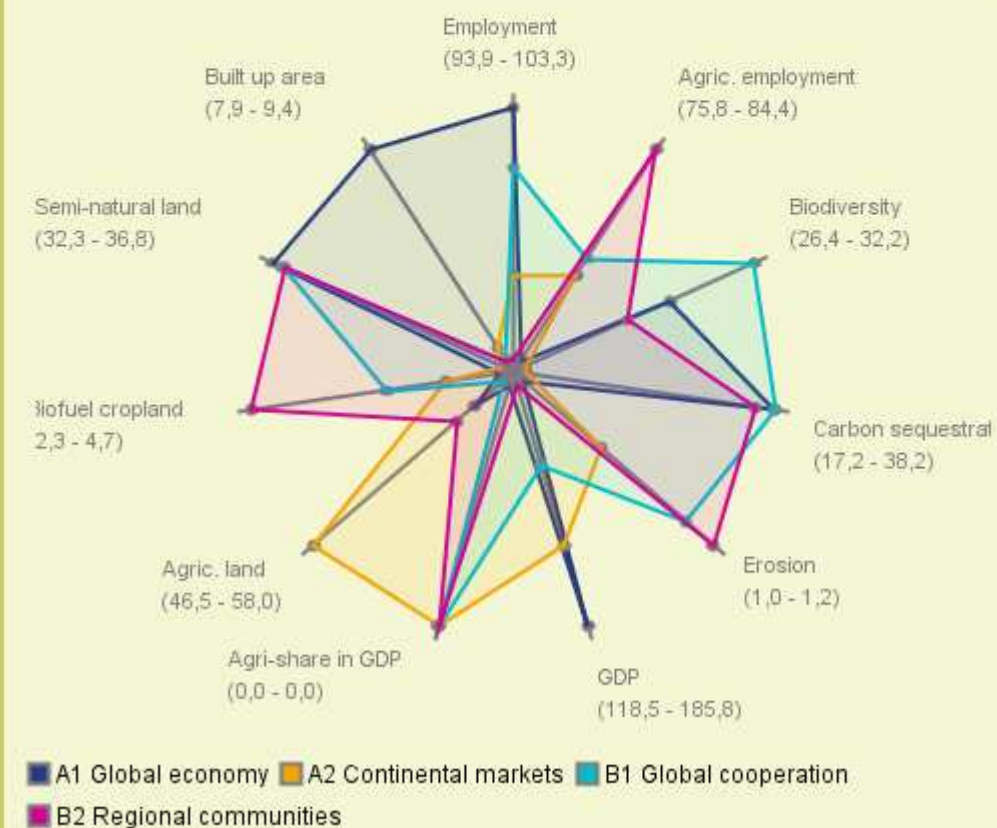
Series by : Scenario

Scale : Member states (Deutschland)

Customize :

Indicators

Series



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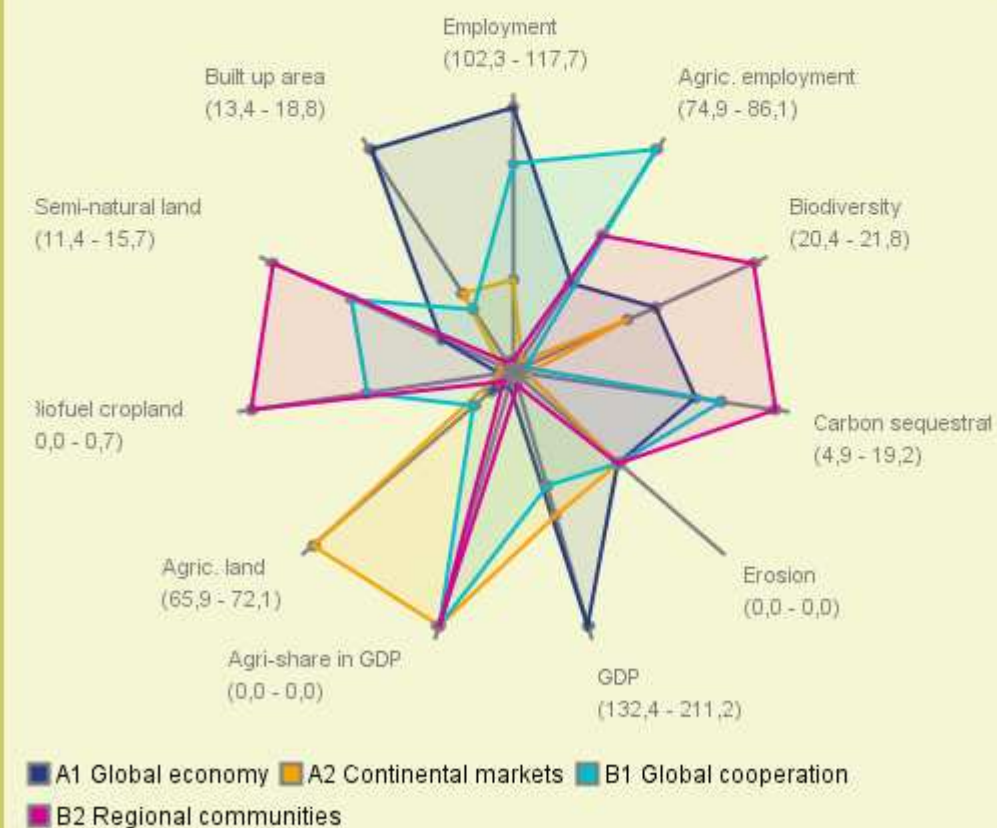
Series by : Scenario

Scale : Member states (Nederland)

Customize :

Indicators

Series





# There is still need for policy

- Global scale
  - climate change, trade liberalization, biodiversity
- EU scale
  - CAP reform: socio economic and land-use, structural funds, environment, Lisbon
- Regional scale
  - diversity: tailor made solutions



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# Questions

- Does Eururalis fit with your expectations?
- What are striking issues?
- The plausibility?
- Is it firm enough?
- Or, are we too definite?
- What is missing in your eyes?
- Regional pictures – are they sound?
- Other things?





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# Follow up Eururalis

- June 2007: Eururalis 2.0 ready

After:

- Validation/ plausibility check (int.scientists)
  - Improve methodologies and data
  - Discussions with policy makers, public
  - Papers (scientific and policy)
  - Congress
- 
- 2008: further modelling