Final conference of the Global Bio-Pact project – 29th January 2013



Global Assessment of Biomass and Bioproduct Impacts on Socio-economics and Sustainability

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Public perception of biofuels in different societies

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What is public perception?

- Is defined in contrast with knowledge, absolute truth based on facts
 => important concept to deal with uncertain matters where both scientific knowledge and local knowledge are incomplete
- Refers to beliefs, opinions, attitudes (acceptance, resistance) of lay people
 => central in the dialogue between science and society,
 and possibly in policy-making
- Results from current experiences and information, and adapts over time
 => ephemeral, influenced by the context and by the values that are the basis of people's interests and judgements
- Reveals hierarchy setting amongst criteria explain the reaction of people beyond what they directly experience

PP is what people feels about a topic, their expectations and the risks they identify

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How did we analyse public perception?

- Review of a growing literature on PP of innovation with social relevance emphasizing the importance of non expert point of view in policydecisions on environmental innovations with social relevance,
 the role of media framing
- Initial test of the opinion poll type
 illustrating the difficulty to give a precise picture of PP at the national
 level => focus on the dynamics of PP
- Elaboration of an original methodological framework, accounting for the diversity of situations, around two fundamental interrogations
 - -What are the business prospects with biofuels? <-> bottom-up factors -How biofuel coincide with public objectives? <-> top-down factors
- Design of a step-by-step common methodology adapted and applied in each case study

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Case-study realized in each of 8 countries

Mapping biofuel stakeholders on who is influencing biofuel PP at which level

External influences and crisis on external factors or sudden events

influencing biofuel PP

Media analysis on the frequency and depth with which

biofuel issues are treated in the media and

their framing

Cultural parameters on the possible intervention of religious,

ethical, moral, socio-historical standpoints

Desk and internet research methods

questionnaire to 30 lay persons

interviews to 10 experts => synthesis

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Results of the case studies on PP (1/3)

- lack of specific knowledge on biofuel and quite positive appraisals revealing different national priorities linked with biofuel development

	Knowledge	Hierarchy-setting	Appraisal
Argentina	on soy oil and biodiesel	rural growth	(+)
Brazil	on biodiesel and sugarcane ethanol	biofuel price from a consumer perspective	neutral
Costa Rica	on biofuels in general, the Brazilian model	environmental innovation	(+)
Germany	on E10 and biofuels in general	fossil fuel substitution	(-) by media, not so much by consulted people
Indonesia	on palm oil production	energy security, economic development	(+)
Mali	on Jatropha plantation	access to energy, agricultural production	(+)
Tanzania	on Jatropha in different production scheme	rural development and poverty alleviation	(+) when small scale for local use(-) when large scale export oriented

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Final conference of the Global Bio-Pact project – 29th January 2013 Results of the case studies on PP (2/3) - positive PP out of expectations/promises, negative PP out of risks (experienced or foreseen) Agro-industrial development Argentina Social, environmental in the longer run Increased end value of products Brazil Environmental positive impacts. Supply unreliability. Contribution to economic growth. Fossil Environmental negative impacts. fuel substitution at lower cost Costa Rica Environmental positive impacts. Added value to existing resources (molasses, Costs, discontinuities in policy degraded land...) Germany At world level: food security, deforestation. monoculture Lower dependence on fossil fuel At national level: damage to motors Energy self-sufficiency. Job creation, Indonesia Biofuel project failure for lack of commitment by the government and the economic development. Positive environmental impacts industry, social injustice, deforestation Mali Food insecurity. Failure of Jatropha Energy independence. Income generating plantation (high costs, low yields and low plantation (Jatropha) selling prices) Rural development through smallholders' Tanzania Exclusion effects (land, incomes, energy) inclusion

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Final conference of the Global Bio-Pact project – 29th January 2013 Results of the case studies on PP (3/3) - PP may evolve rapidly on the basis either of failures to comply or of new risks Main factor of possible change Corresponding intervention required Argentina Environmental and social impacts Research on longer term impacts **Brazil** (Existing) incentives to regulate prices and Price and availabilities fluctuations supply levels Costa Rica Information on biofuel main objective, Direct experiences with biofuel research on how to meet it, incentives for better policy consistency Germany Consumer trust Information on biofuel performance Indonesia Research on how incentive changes will affect Economics of biodiesel production biofuel project economic sustainability Mali Market opportunities for Jatropha Incentives that allow the building of the biofuel from Jatropha value-chain seeds Tanzania Research on contribution of biofuels to Production model that will finally emerge Incentives to better avoid options that contribute to exclusion WP 7 - Public perception of biofuels in different societies

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Remaining questions on the dynamics of biofuel PP

- How the PP on one specific biomass or biofuel does affect PP of other biofuels and biomass products?
- Transnational effects
- How strong and how long do critical events modify PP?
- To what extent punctual cases are subject to generalization or extrapolation (negative results more than positive)?
- The importance of country-specific values and cultural parameters (globalization of the diversity of standpoints: techno-economic, nature conservation, livelihoods...)
- ...

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How to account for public perception?

- Acknowledge the impossibility to isolate PP of biofuel from PP on wider issues of land use, climate change, energy security, ...
 - identify the interests at stakes in responding these challenges and the alternatives considered
- Remember promises made locally or nationally, and check what biofuel development is associated with (some specific cases? some national priorities?...)
- Understand what are the expectations behind PP and check whether they can realistically be fulfilled
- Communicate on concrete activities and outcomes when PP seems to be based on erroneous assessments

However, more communication is not always the best response, without policy consistency or given the uncertainties on socio-economic impacts and the diversity of standpoints

... => learn from PP

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