

WP6. Scenarios for successful establishment of future crops

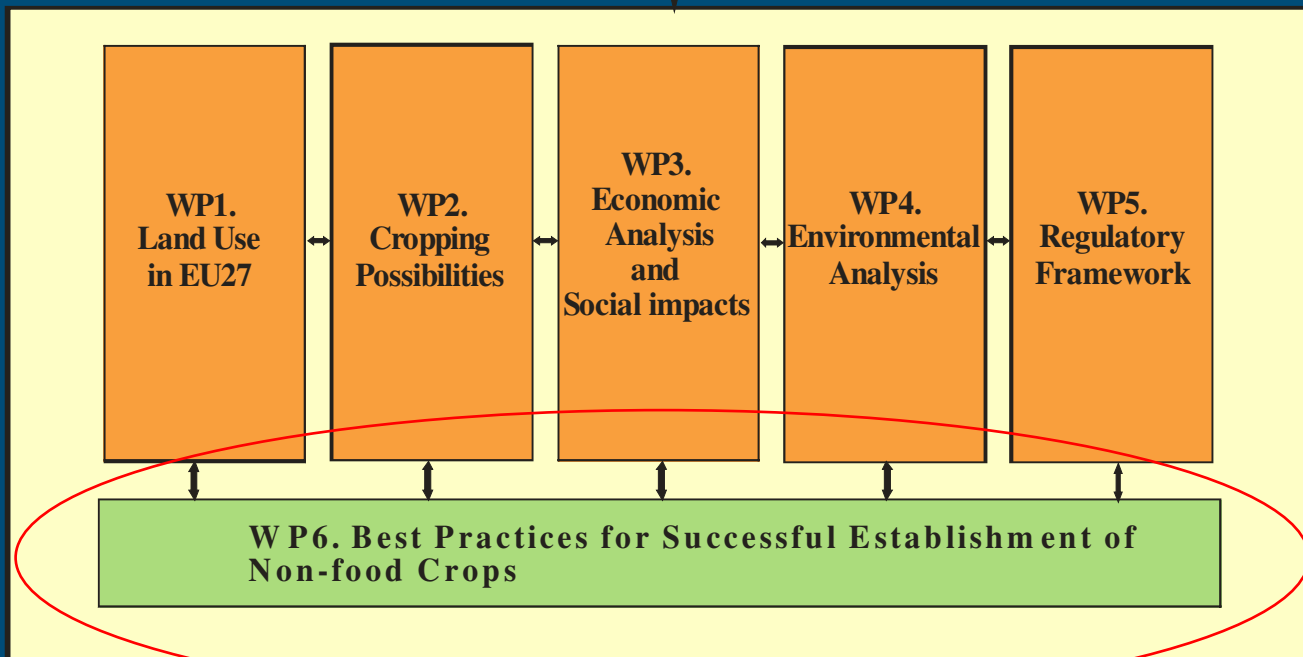
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WP8: Coordination Management and Reporting



WP7: Dissemination and Supports Actions



WP6. Best practices scenarios

- February 2009 – July 2010
- Objectives:
 - To integrate the results of the previous work packages in order to draw up a complete picture of the various crops concerning land-use, economics and environmental impact
 - To evaluate the results in terms of the various possibilities in end-use markets
 - To select a number of the most promising crop-application-market combinations define the necessary conditions for these to become successful
 - To draw up scenarios for working towards successful establishment of future crops for non-food outlets, including necessary technology development, policy measurements and possible linkages with food production



Deliverables

- D18: Report on non-food crops facts and figures including an output markets overview (month 14)
- D19: Report on potential crop-application-market combinations (month 18)
- D20: Report on scenarios for implementation of new crop-application-market implementation (month 24)



Approach

- Extrapolation from results of WP1.3
 - What is it now?
- What could it be?



Market potential based on present production data

(Eurostat 2005)

	<i>Number of product categories</i>	<i>Percentage product categories registered</i>	<i>Total registered value * (billion €)</i>	<i>Present share Biobased ** (billion €)</i>	<i>Potential share Biobased Now (billion €)</i>	<i>Potential share Biobased 2020 2030? (billion €)</i>
Materials from biomass	323	78%	250.6	187.7	211.6	?
Substances from biomass	101	60%	47.9	23.2	38.5	?
Building blocks from biomass	356	33%	155.2	34.5	81.6	?
Totals	780	55%	453.7	245.3	331.8	?

* excluding the confidential data

** of the non-food, non-feed component, based on expert judgement

Task 6.1 Integration and evaluation of results

- Start February – After workshop Spain.
- Results from WP1 to WP5 will be aggregated
- Goal is to describe from the point of view of crop production the most viable crops for non-food production (either energy production or biobased materials)
- Preliminary scheme of possible output markets (energy, materials and chemistry) will be set up, and linked to the various selected crop. Description of present influence of policies on end-users markets.
- Issues:
 - What info will become available?
 - What method will be used to make assessment?
 - What criteria should be used?
 - How to prioritize criteria?
- Report on non-food crops facts and figures including an output markets overview (month 14)



Task 6.2 Definition of system boundaries

- Promising crop-application-market combinations will be defined based on the information in Task 6.1.
- System boundaries will be mapped out.
- First selection of the end market, based on broad evaluation (Task 1).
- Map-out the functional advantages required - requirements on the alternative feedstock for end-markets – translate this to the crop options - Defining the system boundaries for these crop-application-market combinations
- Issues:
 - What criteria to select promising crop-application-market combinations?
 - GHG efficiency?
 - Health?
 - Added value?
 - Fits rotation?
 - Biorefinery?
 - What promising crop-application-market combinations do we have in mind?
 - SRC for ethanol?
 - Biorefinery?
- Report on potential crop-application-market combinations (month 18)



Task 6.3 Evaluation of priorities and formation of scenarios

- Priorities list will be drawn up, focusing on:
 - EU land-use, climate, cropping possibilities and policy boundaries.
 - Selection of a number of systems of which scenarios towards development and market introduction will be defined,
 - Special focus on the stakeholders that will need to be involved in order to reach the project results.
- Report on scenarios for implementation of new crop-application-market implementation (month 24)



Develop methodology further in Madrid (February)



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