



WP 2

Analysis of management strategies and required compliance to standards

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Objectives

- analyze the needs and requirements of what will be the multifunctional farm of 'tomorrow'.
- identify the necessary management strategies and the needed compliance with standard requirements. The multifunctional farm will take into account the current and future trends in European agriculture with the new CAP, as well as world trade trends in less protected markets.
- identify and analyse ICT tools and integrated technologies which could enhance the use of the standards and communicate the information in the whole supply chain from suppliers to farmers, consumers and other entities in the rural area



Partners involved

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Current situation

- A number of requirements are available but not integrated into a farm management information system
- ICT tools to assist farmers in compliance to standards is missing
- A farm portal to incorporate management strategies and practices, as well as new technologies in agriculture is missing



Expected outcomes: Task 1

- Identify the relevant compliance to standards and organisation required, e.g. CAP Cross Compliance requirements, EUREPGAP, IACS, INSPIRE, catchments management.
- The standards for farm management within the EU will be identified and analysed



Expected outcomes: Task 1

- ***INSPIRE***: Infrastructure for Spatial Information in Europe. It is a Directive of the EU aiming to assist policy-making in relation to policies and activities that may have a direct or indirect impact on the environment.
- ***GlobalGap***: standards for the certification of agricultural products around the globe



Expected outcomes: Task 1

- ***Integrated Catchment Management.*** to do all that needs to be done to manage and use the resources of the Basin in a way that is ecologically sustainable
- ***Cross-compliance:*** a policy tool increasingly being used to improve the environmental impacts of farm management. Cross-compliance in the context of the Common Agricultural Policy (CAP) sets environmental and other standards that farmers must adhere to in order to receive subsidies



Expected outcomes: Task 2

- Identify *personal management strategies* (e.g. organic, ICM, IPM) as well as strategies and practices relevant to precision agriculture.
- All personal farm management strategies will be identified and analysed that are currently used by farmers and also give the perspective for future management strategies incorporating further aspects of rural development, such as agro-tourism to diversify and expand the traditional culture of farming in the EU.



Expected outcomes: Task 3

- Identify *social organisation of farmer decision making* (e.g. logistic leverage (group buying), trusted third party data management and processing).
- This will be achieved through the identification of the decision making process that farmers undertake for organisations, such as logistic leverage and third party data processing and provide the perspectives for future social organization farmer systems in the farms of tomorrow.



Expected outcomes: Task 4

- Identify *ICT tools and integrated technologies* to enable the most efficient use of management strategies and compliance to standards
- The potential of ICT tools and integrated technologies are evaluated in terms of automatic data acquisition, mobile decision support, communication between process equipment and farm management information systems, etc. A screening of potential technologies will be carried out.



Expected outcomes: Task 5

- Set the requirements for a *Farm Portal* to communicate the multifunctional farm of tomorrow as being environmentally and socially friendly, energetic, autonomous and enhancing the rural economy.
- Specification requirements for a Farm Portal will use internet protocol and wireless technologies to communicate farming activities with suppliers, sellers and the wider society.



Impact to Society

- A complete record for all available standards for the agriculture and the environment in the EU
- A list of available ICT tools to help farmers using available standards easier and more effectively
- A design of a Farm Portal (web portal) to help farmers extracting information and communicating with the outside world