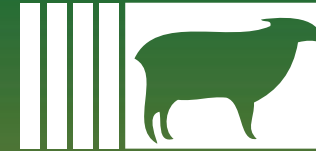




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VALUE4WOOL



floraPell®
Der ökologische Langzeitdünger

Project presentation

Value4Wool

WDS Final Workshop, Barcelona, 4th February 2016



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ifn Anwenderzentrum GmbH

„Sustainability equals growth preconditions“

Services

- Climate protection concept
- Energy consulting
- Construction planning
- Environmental data capturing
- Traffic monitoring
- IT-services



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The proposal Value4Wool is launched by a consortium of five European partners which jointly strive to implement a new product on the organic agro-food market.

The project's idea comes from some year finished development project which results in a technology to valorise a side product from sheep husbandry to an organic product thereby closing the supply chain.

The mentioned product is pelletized low grade grease wool without binder.





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- high nitrogen and potassium concentration as the most important component for healthy plant growth
- enduring fertilizer effect over the entire vegetation period
- water storage capacity
- soil loosening by swelling effect of the pellets
- maintenance of soil biology in conjunction with water storage
- high ph-value as remedy against acidification of soil



Technical processing

- Drying of the raw wool to a humidity under 10 % better under 5 %
- Mechanical pre-treatment with mechanical cleaning, milling and fibre stabling
- Pelletizing in a suitable press
- Cooling down to stabilise the shape and hardness of the pellet according to the resting humidity
- Storage under dry conditions



Sheep wool pellet qualities

- Excellent quality ready to use with commercial available spreaders and stable over time; density in this case is approx. 600 kg/m³; the ratio of this portion to total is around 40 %
- Good quality ready to use with commercial spreaders but less stable; the pellets are sensitive to wetting and to strong mechanical stress; the pellets can lose fluffy fibres; the density is not changed relevantly; the ratio of the good quality portion is about 35 %
- Poor quality or not pelleted fibres; the density is over 1t/m³; the portion is up to 25 % and can't be pelleted a second time normally.



Project objectives

- To introduce a new organic fertiliser into the market, in particular into the organic farming market thereby improving low grade coarse grease wool or woollen fleeces to a high value organic fertiliser and soil amendment
- To design and implement a new market structure for this product which covers regional enterprises under a market umbrella for purchasing, producing and selling the fertiliser commonly but based on regional oriented business to business within relevant European areas



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Project participants

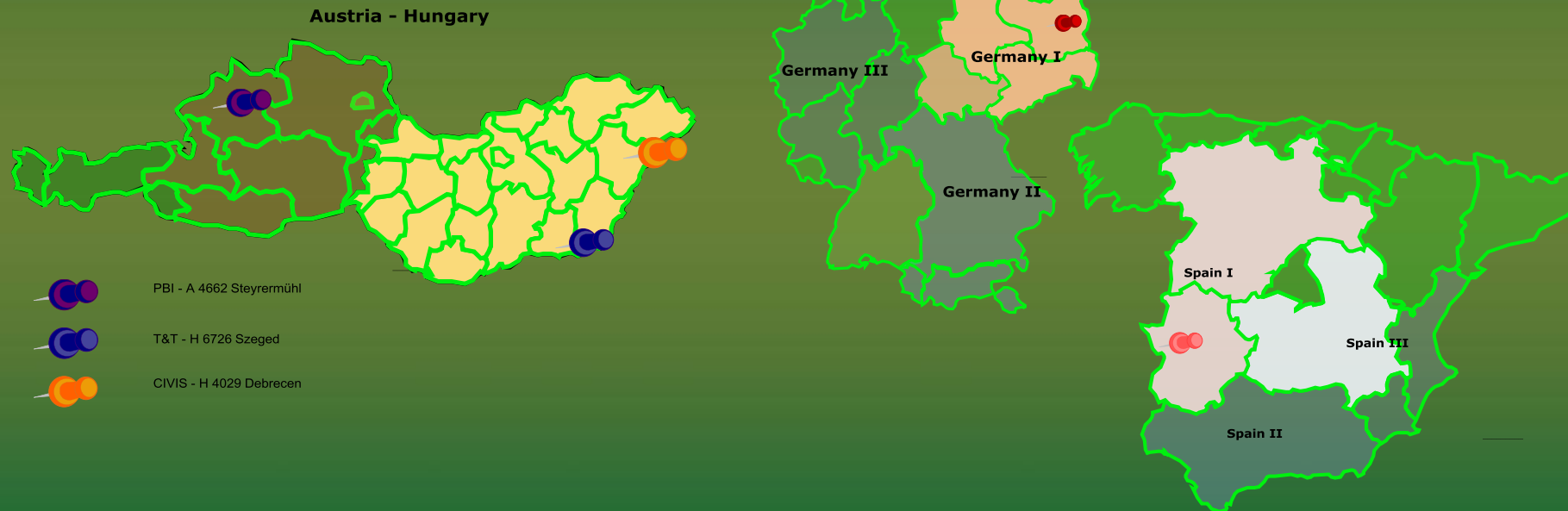




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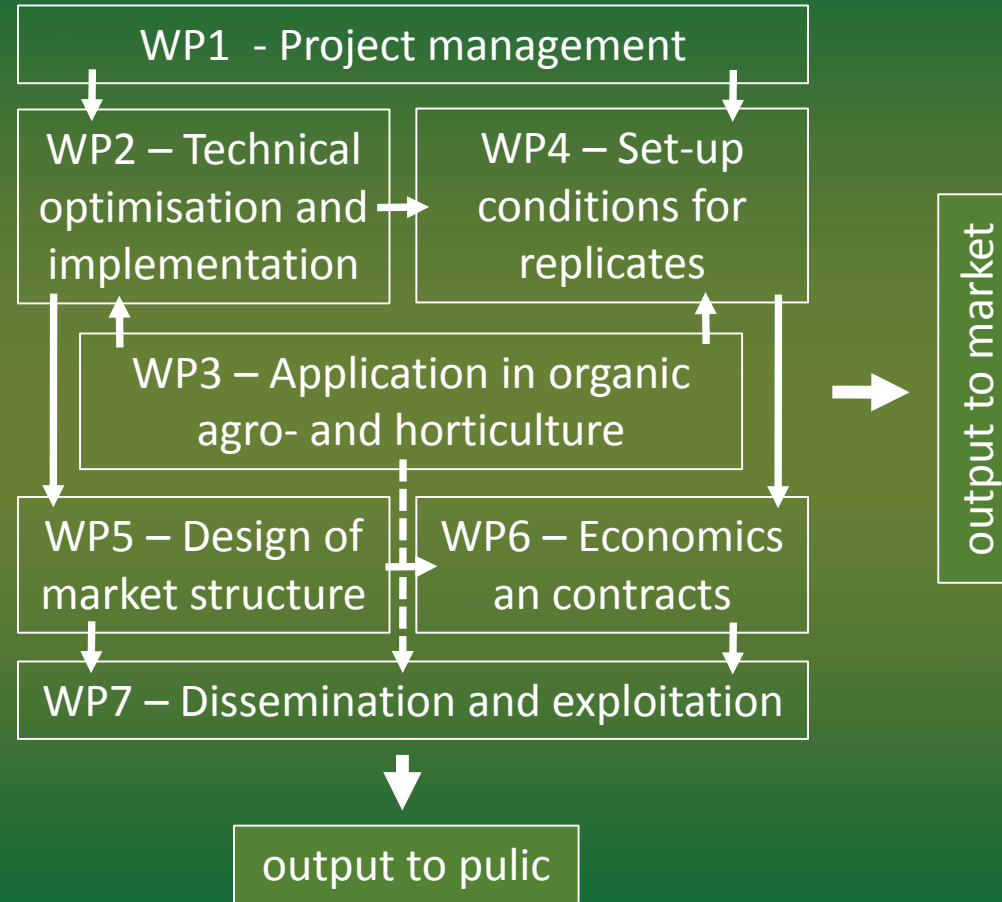


Clustering





Work packages





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VALUE4WOOL

value4wool.ifn-group.de



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