Palopuro agroecological symbiosis

Efficient resource use by land managers and other rural businesses

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Agroecological symbiosis?
Palopuro Agroecological Symbiosis

Horse manure, field biomass etc.

Fields

Grass biomass

Organic matter and fertilizer

Energy

Interation between producers and customers

Bakery and mill

Dryer

Grain

Feed

Local and regional customers and restaurants

Transportation

Vegetable farms

Henhouse

Fuel

Biogas plant

Organic matter and fertilizer

Nutrients

NUTRIENTS
Increased efficiency in use of resources

- Added value in grain production
  - Baking quality grain from the fields baked to bread in the farm
  - Feed quality grain to the henhouse
  - Losses from the mill and the bakery can be used in henhouse
- Biogas from green manure leys, fallows, and manure
  - Renewable energy used in baking, grain drying and for sale to 130 passenger cars
  - Organic fertilizer for 150 hectares
  - More carbon to soil
- Increase in social resources and countryside viability
Why cooperation?

- Agronomical benefits
- Enables investments
- New sources of income from energy sales
- Better price for the products
- Social aspects
  - Increased viability
The need of RDP and challenges

• High investment costs and risks
• Cooperation between stakeholders from different sectors and RDP?
• Innovations and RDP?
Kiitos
(Thank you!)