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# Farmers Role on Biodiversity in Soil



EUSO Stakeholder Forum - Alfred Grand, October 20<sup>th</sup>, 2021



# Alfred Grand



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Trained by earthworms?



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# Farmers needs Farmers action

**1: REALIZE**

**2: REDISCOVER**

**3: REGENERATE**







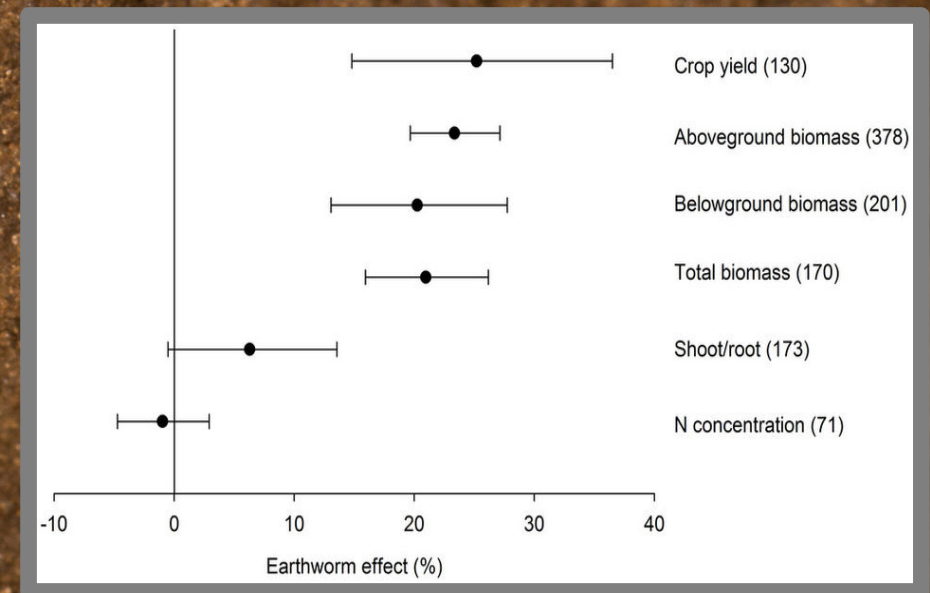
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# REALIZE

## the benefits of biodiversity through

# Story-telling & Content-telling



Earthworms increase plant production: a meta-analysis  
Jan Willem van Groenigen et al., 2014



A close-up photograph of soil, showing various textures and colors. The soil is dark brown to black, with some lighter brown areas. There are visible roots, some thin and some thicker, extending through the soil. The soil appears to be a mix of fine particles and larger clumps, possibly due to earthworm activity or plant debris. The overall appearance is rich and organic.

# REDISCOVER

through “Dig a little, learn a lot”

## Spade test: See, feel, smell

Layers, soil type, soil texture, Root development, soil aggregates, moisture content, earthworm burrows, compaction, colour, crusts, pans, plant debris, earthworms, arthropods, ...

All in different areas (0-5 cm, 5-10, 10-30)





**REGENERATE**

**through a range of methods**

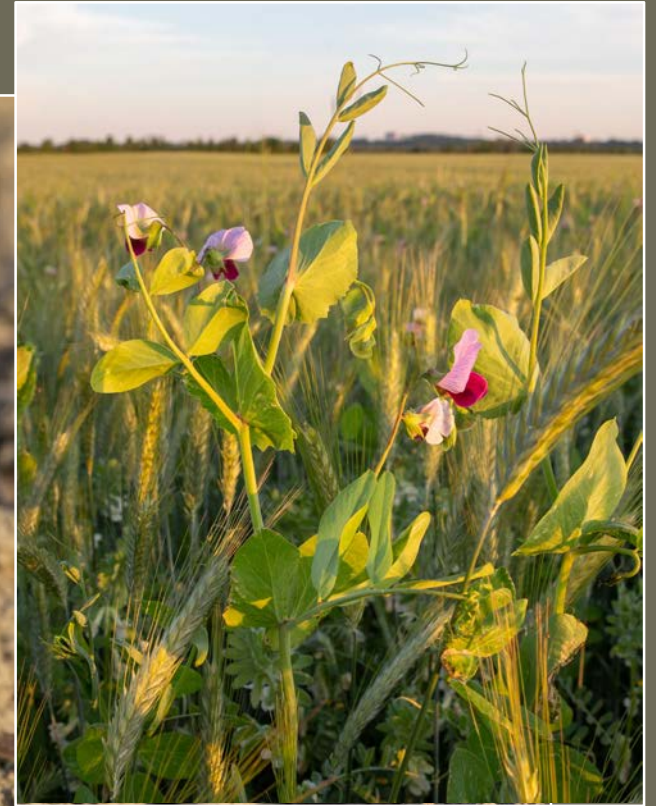
**and benefit from functional biodiversity**





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# Organic + Agroecology:







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# Crop Rotation:

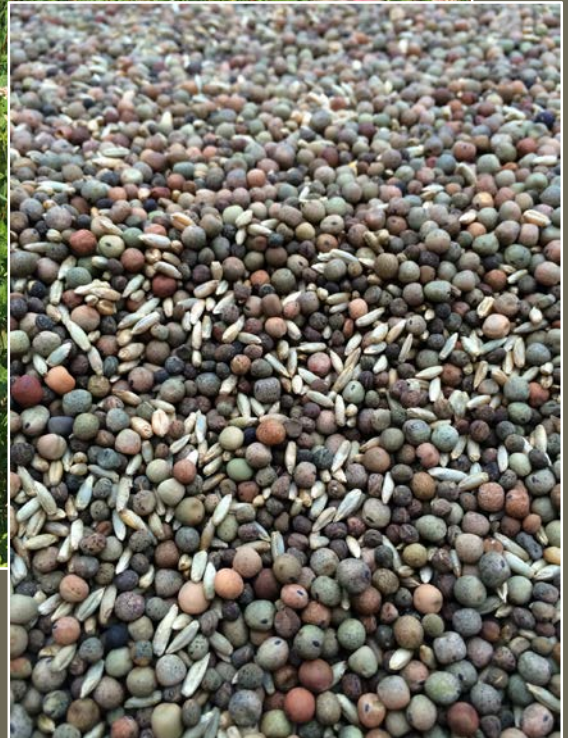






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# Cover-Crops:





# Compost and Vermicompost:

## Production and Application

Also as seed coating!







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# Flower Strips:







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# Agroforestry:







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# Reduced Input/Effort:

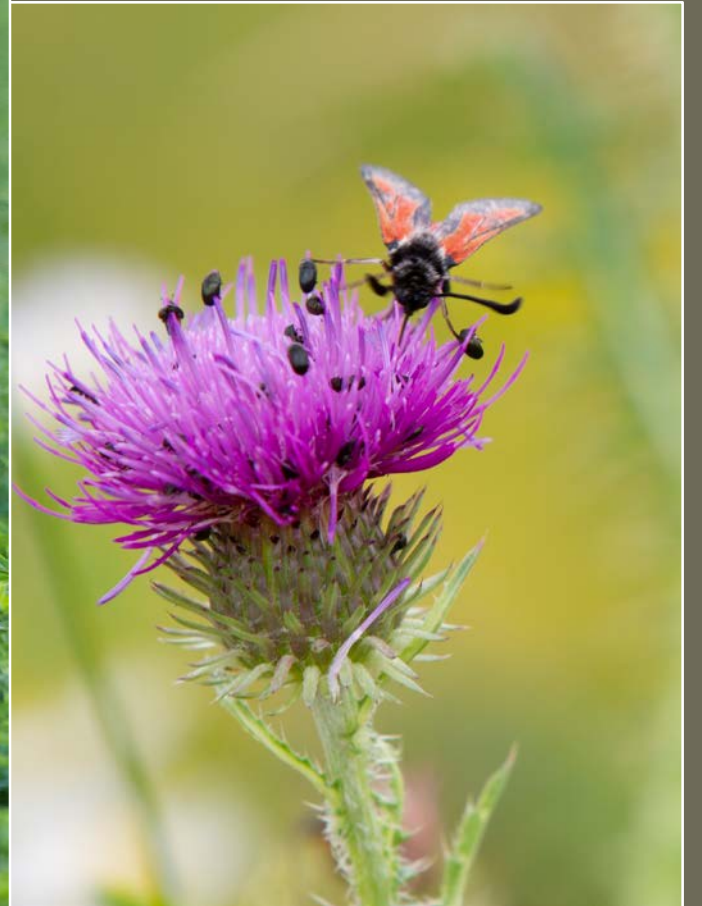






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# Above Soil Biodiversity:







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# Livestock:







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# Market Gardening:







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**As humans, we can't make soil.**

**Only soil organisms (plants,  
microbes, earthworms) can make  
healthy soil!**

**We can only provide the  
environment!**

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