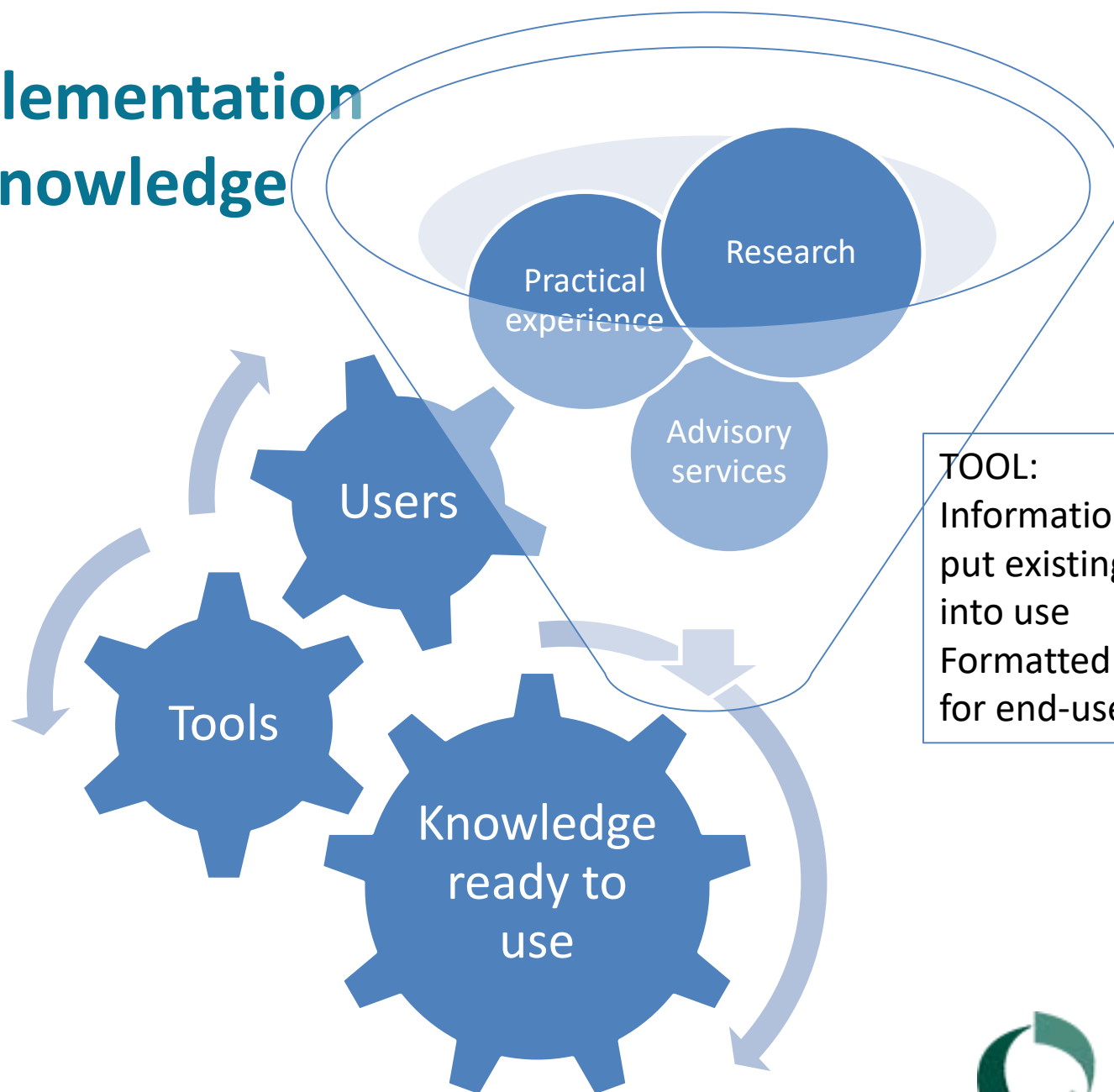


OK-Net Arable online knowledge platform

Ilse A. Rasmussen; Allan Leck Jensen; Margit Styrbæk
Jørgensen; Helene Kristensen & Bram Moeskops

Implementation of knowledge

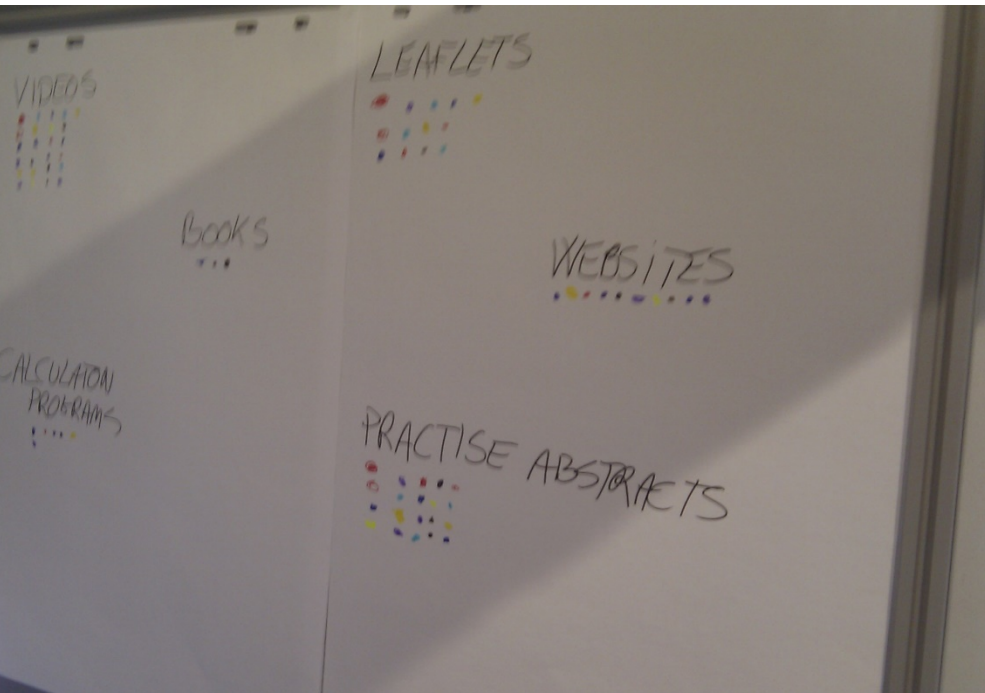
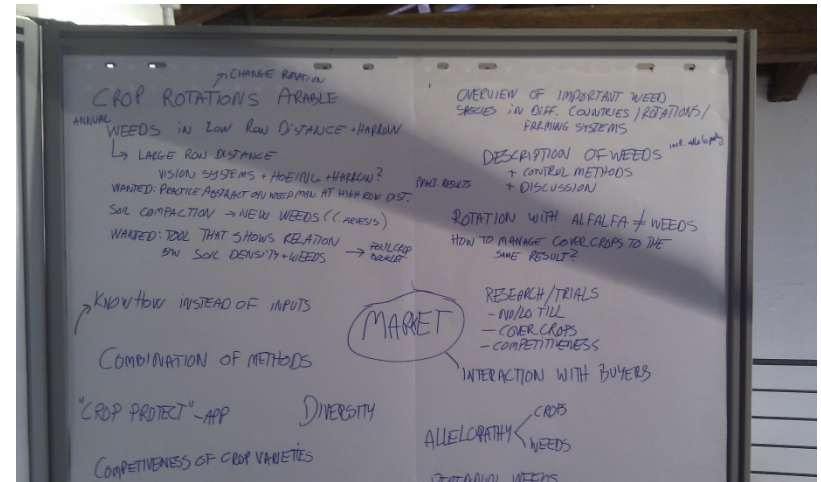


TOOL:

Information about how to put existing knowledge into use

Formatted in a way easy for end-users to utilize

Farmer groups discuss and evaluate tools



EIP-AGRI Focus Group Organic Farming Optimising Arable Yields



- Poor soil fertility management
- Inadequate nutrient supply
- Insufficient weed management
- Pest and disease pressure
- Variety choice.



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OK-Net Arable - exchange knowledge, enhance farming

Search the knowledge base

Number of tools in the database: 96

Recommended tool 02-11-17

The Muencheberg Soil Quality Rating...



Field manual for detecting and assessing soil properties and limitation

Latest tool 24-08-17

NDICEA - Nitrogen Planer – version...



A useful tool for understanding nitrogen dynamics in organic rotations

Latest comment

 [OK-Net Arable](#) Field manual for detecting and assessing soil properties...
[Soil quality and fertility](#) - 1 day ago

Suggest a tool

Browse the knowledge base in one of the five themes

Soil quality and fertility



Nutrient management



Pest and disease control



Weed management



Crop specific



English
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Zurab

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It seen
problems with the Google translations in Internet Explorer, where text strings are cut off when special characters occur. We recommend the use of other browsers such as Chrome or Firefox.



Soil quality and fertility



Sustainable crop production is dependent on maintaining and improving soil quality and fertility, which are dependent on organic matter in the soil and its impact on the soil's chemical, biological and physical properties. Organic matter is the source of life for the immense variety of soil microbes and soil fauna that make nutrients available and build soil structure. Therefore, crop rotations should always include a phase that allows organic matter in the soil to build up i.e. through incorporating perennial grass-clover leys or catch crops during autumn and winter. To protect soil life, the input of nutrients via manure, crop residues or other fertilisers should be well-balanced. Compaction by heavy machinery should be avoided for the same reason.

On this page, you can find tools and resources to help you improve soil quality and fertility, and you can discuss the topic with others.

Tools

This weeks recommended tool

Aerated compost tea (ACT) to improve soil biology and to ac...



There is a growing body of evidence supporting the benefits of aerated compost tea (ACT) application, but not all studies have shown this conclusively. Compost tea application helps build healthy soils which

Most popular tool

Visual soil assessment: field guide for cropping



Visual assessments provide a diagnostic tool to evaluate many physical, biological (and degree chemical) soil characteristics up as visual characteristics

Show tools (35)

Suggest a tool

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ICROFS

International Centre for Research
in Organic Food Systems

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Crop rotation and its ability to suppress perennial weeds

Preventive control of perennial weeds through weed-suppressing crop rotation

Leaflets
and guidelines



[Related content from Organic Eprints](#)
[More about the tool on Organic Eprints](#)

[Link to the tool \(Danish\)](#)

Give your rating to the tool: ★★★★★

Average rating to the tool: 0.0 Number of ratings to the tool: 0

Problem

The problem of perennial weeds in organic arable farming

Solution

A well-designed crop rotation system is the key to preventive control of perennial weeds.

Description

Weed-suppressing crop rotations are essential for sustainable organic arable farming. Preventing spread of perennial weeds will increase crop yields and quality. The tool is a factsheet created for all organic farmers as we all need renewed knowledge on weed-suppression and crop rotation from time to time. The factsheet provides practical recommendations on crop selection and composition of crop

Applicability

Theme

Soil quality and fertility, Weed management, Crop specific

Languages

Danish language

[Show more information](#)

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[Foreslå et værktøj](#)

Sædskifte og dens evne til at undertrykke rodukruddt

Forebyggende bekæmpelse af flerårigt ukrudt gennem ukrudt-undertrykkende vekseldrift



[Relateret indhold fra Organic Eprints](#)

[Link til mere information](#)

[Link til værktøjet \(Dansk\)](#)

Leaflets
and guidelines



Giv din bedømmelse af værktøjet:



Gennemsnitlig bedømmelse af værktøjet: **0,0** Antal bedømmelser af værktøjet: **0**

Problem

Problemet med rodukruddt i økologisk planteavl

Løsning

Et godt designet vekseldrift er nøglen til forebyggende bekæmpelse af flerårigt ukrudt.

Beskrivelse

Weed-undertrykke sædskifter er afgørende for en bæredygtig økologisk planteavl. Forebyggelse spredning af rodukruddt vil øge høstudbytte og kvalitet. Værktøjet er et faktablad skabt for alle økologiske landmænd, som vi alle har brug for fornyet viden om ukrudt-undertrykkelse og sædskifte

Anvendelsesområde

Tema

Jordkvalitet og frugtbarhed, Ukrudtsbekæmpelse, Afgrødespecifik

Sprog

dansk sprog

[Vis mere information](#)

Crop rotation and its ability to suppress

{Tool} *Crop rotation and its ability to suppress perennial weeds.* [Sædskifter.] Creator(s): A



PDF - Danish/Dansk (Sædskifter)
3MB

Online at: <https://www.landbrugsinfo.dk/Oekologi/Plante>

Summary

Weed-suppressing crop rotations are essential for sustainable organic arable farming. Preventing spread of perennials is a key challenge. The tool is a factsheet created for all organic farmers as we all need renewed knowledge on weed-suppression. The factsheet provides practical recommendations on crop selection and composition of crop rotations in accordance with the combination of crops and green manures, designed specifically for the conditions and needs of individual fields. It provides prevention but also provides recommendations in case of high weed pressure. Example: Do not sow a winter cover crop for a long period of time. Instead, undersow a cover crop in the legumes to hold back the nutrients and sow a competitive crop.

 - Results - (1-25/27)

Title

- 1 [Controlling potato beetles with Bt](#)
- 2 [Crop rotation and its ability to suppress perennial weeds](#)
- 3 [Efficient use of nitrogen from livestock manure](#)
- 4 [Growing cover crops in organic arable crop rotations: Best practices from Denmark](#)
- 5 [Weeds topping machine on soya](#)
- 6 [Roller crimper and other green mulching techniques for soya cultivation](#)
- 7 [Cultivating a diverse wheat population suitable for low-input and organic farming](#)
- 8 [Aerated compost tea \(ACT\) to improve soil biology and to act as a biofertiliser/biofungicide](#)
- 9 [Diverse fertility building leys in arable rotations](#)
- 10 [Monitoring weed regulation services by carabids](#)
- 11 [Use of rock dust against the rape pollen beetle](#)
- 12 [Rolling of grains to prevent winter kill damage](#)
- 13 [Calculate the risk of wireworm infestation in the field](#)
- 14 [Using crop rotation to control wireworms](#)
- 15 [Controlling docks by stubble cultivation](#)
- 16 [Reducing the use of copper in potatoes](#)
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- 18 [Winter field peas as green manure before maize](#)
- 19 [Nitrogen supply for winter oilseed rape](#)
- 20 [Testing peas for legume fatigue](#)
- 21 [Reducing weed seed pressure with the false seedbed technique](#)
- 22 [Catch crop in maize](#)
- 23 [No-till cultivation of maize in rolled forage peas](#)
- 24 [Black-grass control in winter cereals with hoeing](#)

Crop rotation and its ability to suppress perennial v



[Related content from Organic Eprints](#)
[More about the tool on Organic Eprints](#)

[Link to the tool \(English\)](#)

Give your rating to the tool: ★★★★★

Average rating to the tool: 4.0 Number of ratings to the tool: 1

Problem

Perennial weeds like thistle and couch-grass hinder growth and yields of arable crops. Without a proper focus on perennial weeds (through a good crop rotation system) organic arable cropping systems may not manage for more than 6 years without facing major weed problems.

Solution

Crop rotation is a key tool for preventive control of perennial weeds in arable farming. Weed-suppressing rotations include an appropriate percentage of competitive crops and green manures. Selection of the right crops and their proper management are important for successful weed prevention.

Description

Practice abstracts



Applicability

Theme

Soil quality and fertility, Weed management

Languages

English language

[Show more information](#)

Basic rules

- Implement green manures, such as clover or lucerne, in at least 20 % of the rotation.
- Do not grow more than 50 % of cereals with low weed competitiveness in the rotation. Do not cultivate such crops for more than 2 consecutive years.
- In fields with prevalent high weed pressure cultivate only crops with high weed competitiveness.

Crop selection and composition of crop rotation

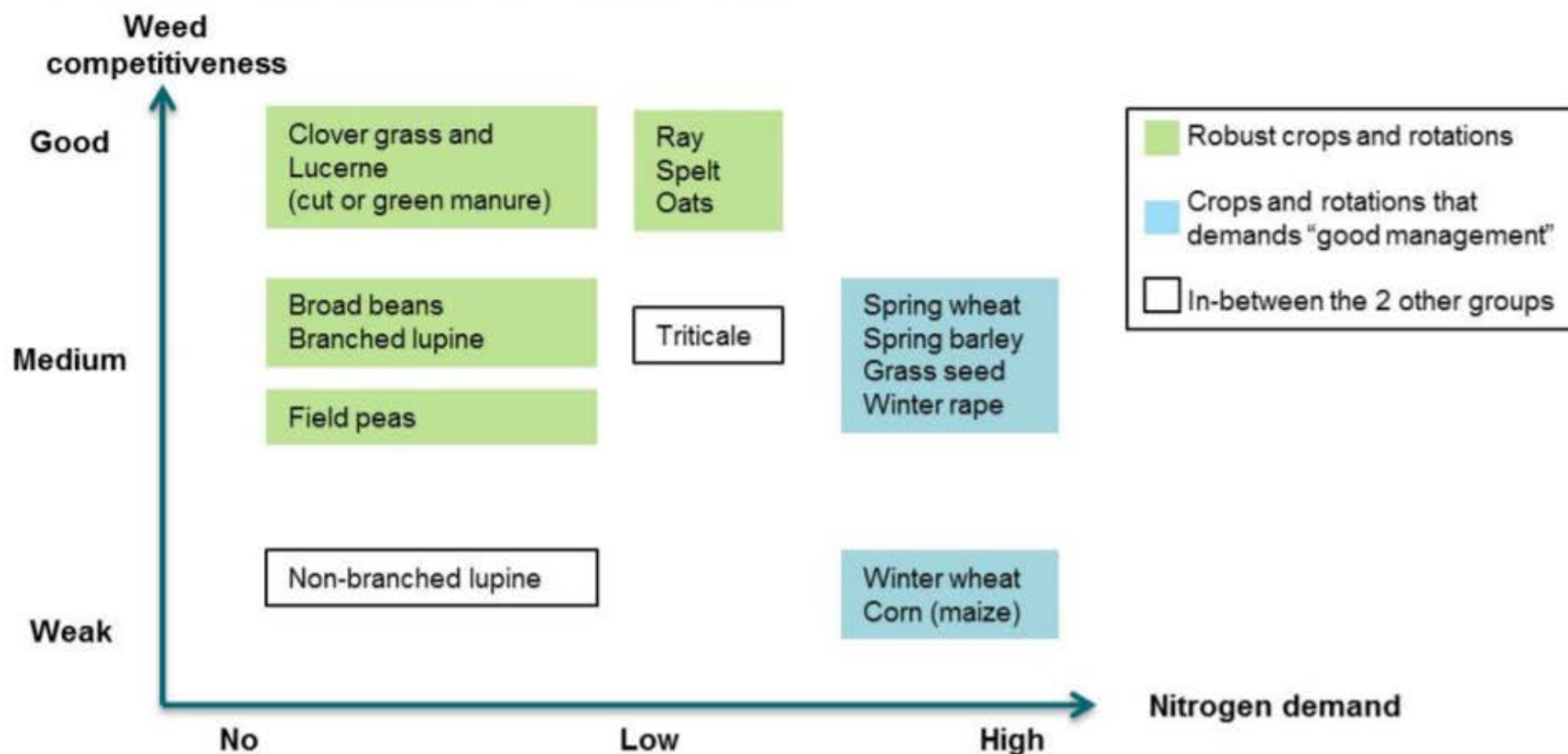


Figure 1: Crop selection in accordance to weed competitiveness and nitrogen demand

Discussion forum

Here you can discuss your problems and solutions for this theme

5 Comments farmknowledge.org

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OK-Net Arable Mod - 8 months ago
Solutions, potentials & challenges

LOG IN WITH



OK-Net Arable Mod - 8 months ago
Désherber mécanique

Back

Suggest a tool



Carlo Ponzio - 5 months ago
Finger harrow and wide crop rotation



Bram Moeskops Mod - 9 months ago
What methods do you use to control weeds? Do you apply mulch? Do you recommend it to others?



Zoltan Dezsény Bram Moeskops - 5 months ago
We grow vegetables on small scale, so not under arable conditions. See: www.acta.fapz.uniag.sk/journal...
However, it is only the result of the first year of a multiple-year trial.

Send	From	IlseA.Rasmussen@icrofs.org	Login
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	Cc...	organicfarmknowledge@gmail.com	
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Thank you,

The OK-Net Arable Team

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Video gallery



BASE-ABC, a group of French
applying conservation agricult
3:42



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biologiques (OK-Net Arable &
1:43



Presentation of RotAB Networ
organic farming (OK-Net Arab
1:45



Dialogue between Belgian and
farmers in the OK-Net Arable
6:06

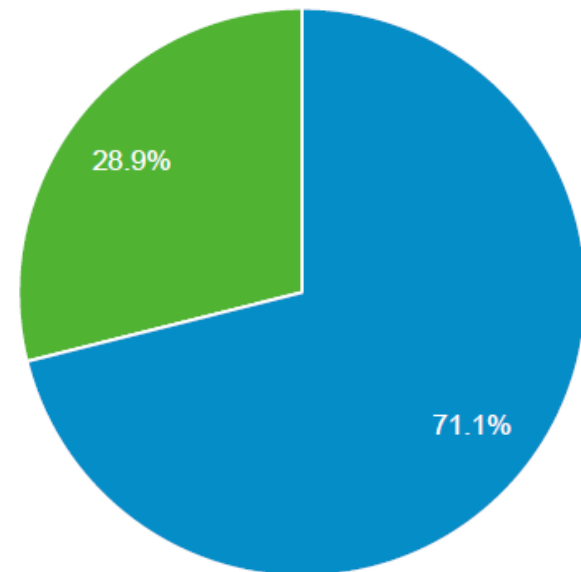


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applying conservation agricult
3:35

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Farmknowledge.org

- knowledge platform of OK-Net Arable

Developed by ICROFS/AU

- Allan Leck Jensen
- Ilse A. Rasmussen
- Margit Styrbæk Jørgensen
- Helene Kristensen
- Dennis Christensen

More information



- Contact: Bram.Moeskops@ifoam-eu.org
- Visit: www.ok-net-arable.eu
- Visit <http://farmknowledge.org/>



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