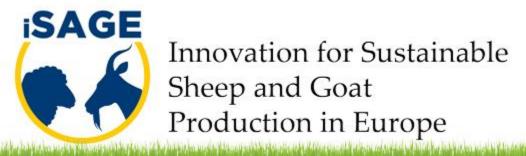
SustainabilityThe iSAGE Toolbox

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iSAGE Toolbox

1. SIGNPOSTS TO SUSTAINABILITY

- 2. SAGEGUARD
 - 2.1 SAGEGUARD.NET
 - 2.2 SAGEGUARD CARDS





Aim

Produce a toolbox for industry stakeholders (inc. farmers) to find information about sustainability and sustainable practices within the sheep and goat sector

- To include a list of indicators and recommendations (Sageguard.net & Sageguard Cards)
- And tools suitable for practical decision making (Signposts to Sustainability & Sageguard.net)





Developing the Toolbox

- iSAGE partners select sustainability indicators that they felt were relevant
- Sustainability questions in the PG Tool







PG Tool adapted for a quick online assessment

Series of questions: Yes No

+ a third option when necessary, e.g. unknown

Basis for the iSAGE Toolbox





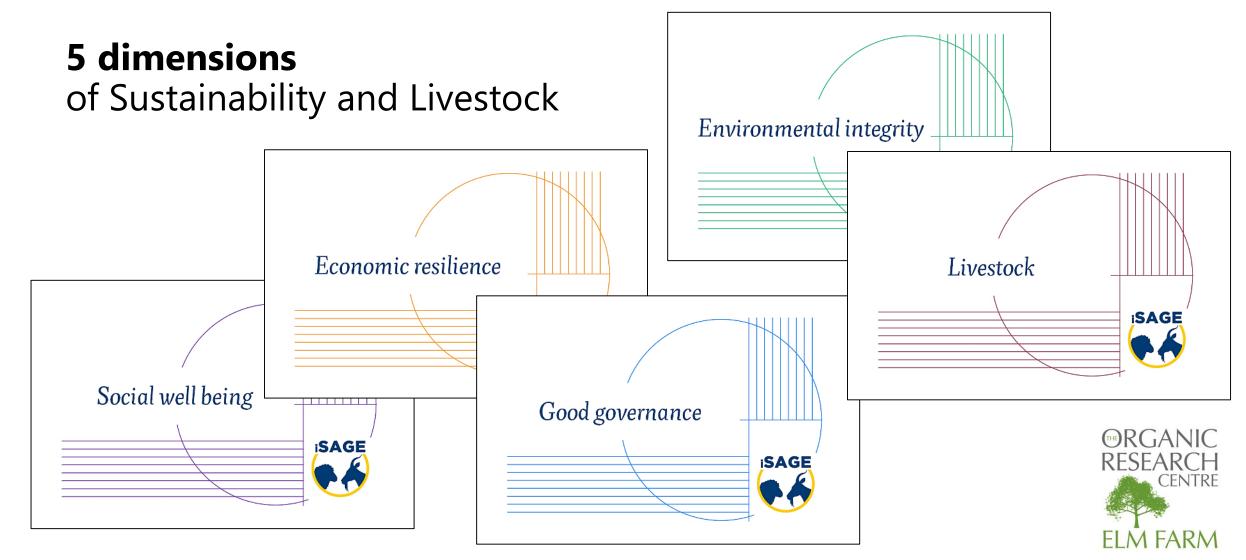
Comprised of:

- 5 Dimensions
 - 3 Themes
 - 3 Sub themes
 - 3 Indicator questions





1. Signposts to Sustainability





Each dimension has 3 associated themes

Livestock

- Animal Health
- Animal Welfare
- Livestock Management



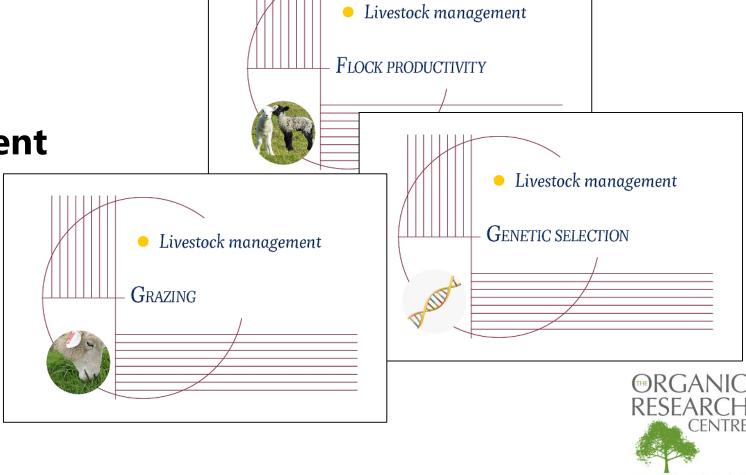




Each theme has 3 sub themes

Livestock management

- Flock productivity
- Genetic selection
- Grazing





Series of indicators associated with each sub theme

Flock productivity

- Lambing success
- Weaning success
- Culling practices







1. SIGNPOSTS TO SUSTAINABILITY Excel background

Dimension Theme Sub Theme Indicator Questions Environmental Integrity Ecological Soil Erosion Are there signs of erosion on your farm? Compaction Are there any signs of compaction across your fields? Quality Do you consider soil biology when managing your soils? Water Use Do you monitor your farm water use? Availability Do you use replenishable water sources, if you are not reliant on mains? Water quality Have you recently sampled the water quality of your water sources? Atmosphere Direct pollutants Have you considered the direct pollutants that your farming practice emi Indirect pollutants Have you considered the indirect pollutants that your farming practice emi Management of pollutants Do you have measures in place to limit atmospheric pollution?	Α	В	С	D	E
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1. SIGNPOSTS TO SUSTAINABILITY question / answer

Answer the question associated with the indicator

Lambing success

✓ Do you lose over 5% of lambs between birth and weaning?







1. SIGNPOSTS TO SUSTAINABILITY results summary

Environmental Integrity										
Soil	Erosion		<u>Compaction</u>		<u>Quality</u>					
Water	Use		<u>Availability</u>		Water Quality					
Atmosphere	<u>Direct pollutants</u>		Indirect pollutants		Management of pollutants					
Farmland Biodiversity	Flora and fauna		Diversity of production		Trees and hedgerows					
Cultural and Heritage	<u>Historical features</u>		Genetic diversity		Traditional livestock management					
Environmental Management	Conservation plans		Ecosystem connectivity		Ecosystem enhancing practices					
Fertiliser	Soil testing		<u>Fertiliser plan</u>		Nutrient balance					
Energy and Carbon	Renewable energy		<u>Vehicles</u>		<u>Carbon</u>					
Waste Management	Recycling		Reducing		<u>Hazardous products</u>					
Livestock										
Flock	Breed		Body Condition Score		<u>Replacements</u>					
Health Plan	Health plan		Antibiotics		<u>Parasites</u>					
Disease Incidence	Flock/herd health		<u>Quarantine</u>		Proactive management					
Feeding Systems	Intensive systems		<u>Concentrates</u>		<u>Forage</u>					
Housing Characteristics	Condition of housing		<u>Space</u>		Water Availability					



2. SAGEGUARD WEBSITE and CARDS





Decision support tool

2. SAGEGUARD • Find information to help move towards a more sustainable system

> A set of links to further information provided for each subtheme / question





2.1 SAGEGUARD.NET NAVIGATION





 Home page describes how to use the Toolbox

- Choose where to start:
 - Explore dimensions or themes
 - Find help with an issue



What is Sageguard

A platform for developing knowledge within the field of sustainable sheep and goat production

Welcome to Sageguard, a platform that hopes to help answer your questions and provide guidance around how to sustainably produce sheep and goats within Europe

We cannot guarantee we have all the answers but through our interactive website you can delve into the depths of what constitutes sustainability, what to look for, and how you can implement these practices to improve your business for the future.

Sustainability is not just a short term

fix, it is a method of production that



Is your business sustainable?

guides the reasoning behind your own decisions across every aspect of your business

Navigate through the hierarchical levels of sustainability to reach your answers, using the dimensions Cards below or the menu on the top right of your screen



- Exploring the **Dimension** Environmental integrity
- Theme
 Ecological

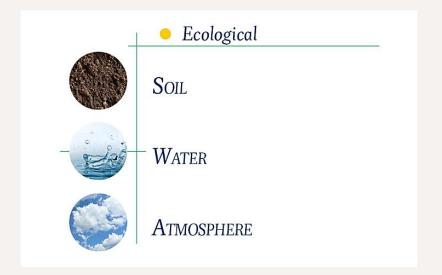


Environmental integrity

Addressing the environmental sustainability of sheep and goat enterprises

This section focuses on the maintenance of life support systems that are essential for human survival by minimising negative environmental impact and fostering positive impacts

<u>Sageguard.net</u> > Environmental integrity



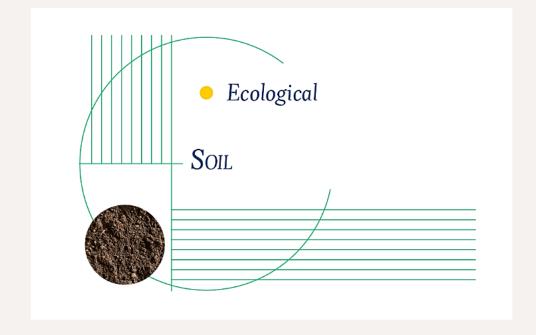


- DimensionEnvironmental integrity
- ThemeEcological
- Sub Theme
 Soil



Ecological

<u>Sageguard.net</u> > <u>Environmental integrity</u> > Ecological





- Indicator question Erosion
- Responsive design for mobile





Soil erosion is the process by which soil primary particles and aggregates are removed and lost from their point of origin by wind or water, or even mass wasting from gravitational forces and agricultural activities.

In agricultural soils, compaction is caused by compression from machinery traffic or stock trampling. Soil biology is the study of soil biota and the interactions they have with each other and their environment.

Erosion

- Erosion | National Geographic
- Soil erosion | WWF
- Soil erosion | DEFRA
- Soil erosion | BBC
- Soil erosion | Heritage Land Bank
- · Soil erosion | Ontario Government









Sageguard.net > Sageguard Cards > Soil

Soil erosion is the process by which soil primary particles and aggregates are removed and lost from their point of origin by wind or water, or even mass wasting from gravitational forces and agricultural activities. In agricultural soils, compaction is caused by compression from machinery traffic or stock trampling. Soil biology is the study of soil biota and the interactions they have with each other and their environment.

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- · Soil erosion | BBC
- · Soil erosion | Heritage Land Bank
- · Soil erosion | Ontario Government

Compaction

- · Soil compaction | Farmers Weekly
- Soil compaction | AHDB Dairy
- · Soil compaction | Soil & Water
- Soil compaction | Väderstad
- · Soil compaction | University of Wisconsin

Quality

- . Soil quality | Nature Education
- · Soil quality | Soil Association
- · Soil quality | Swarm Hub
- · Soil quality | ScienceDirect
- · Soil quality | Australian Government





2.2 SAGEGUARD CARDS





2.2 SAGEGUARD CARDS

 An offline set of cards arranged in a similar manner to Signposts to Sustainability

 Designed to provoke thought and discussion

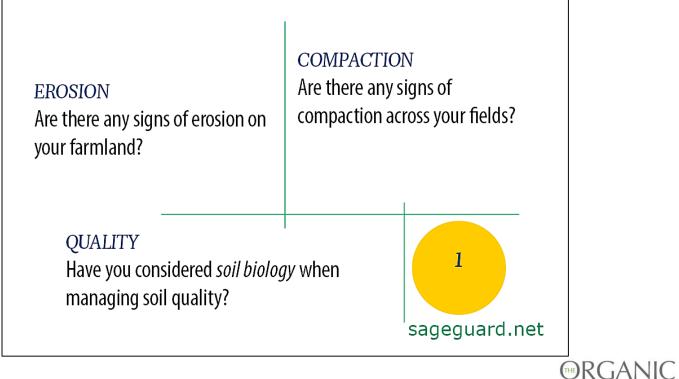






2.2 SAGEGUARD CARDS





RESEARCH

ELM FARM



Sustainability on your farm

Each farm has a unique set of circumstances...





Visit → sageguard.net

- To trial the website and the sustainability tool
- Please write down or discuss any comments
- Further comments.....

email to → <u>lisa.a@organicresearchcentre.com</u>

Thankyou!





Further information

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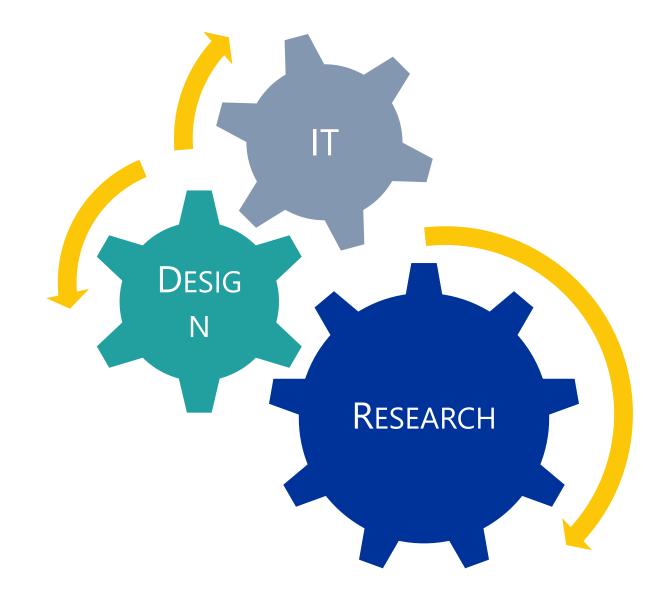
The views expressed in this presentation are the sole responsibility of the presenters(s) and do not necessarily reflect the views of the European Commission.







Toolbox Team







Design - iSAGE background

What is a toolbox? What our toolbox should be?

Task 1.4: Toolbox development

Partners involved: 30 (ORC - leader), 12 (UNIVPM), 16 (CSIC).

Review the results of tasks 1.2 and 1.3 and use the results to develop recommendations and advice on tools for practical decision-making. These will be made available online. The toolbox will be available in English, Italian, Greek and Spanish. The activities and workshops in this WP involving stakeholders will be utilised to ensure that the toolbox is user-friendly and the recommendations are relevant to industry stakeholders. This activity will be coordinated through WP6 to avoid overlap of requests from other WPs and ensure efficient collection of data.

The outcome of this task will be a tool box of recommendations regarding indicators (especially for social, economic and animal welfare) and tools suitable for practical decision-making. This toolbox will be translated into Spanish, Italian and Greek as well as being available in English.







Design - PG Tool background

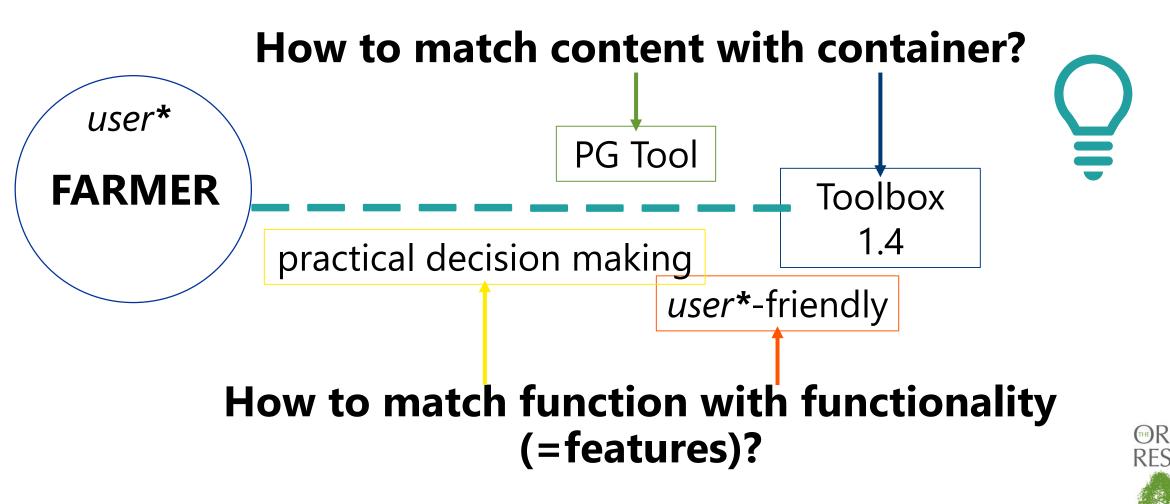
What is the PG Tool from a design point of view:

- a huge(!) Excel worksheet
- a list of indicators (e.g. 'Erosion') nested in a list of topics (e.g. 'Soil') nested in a list of dimensions (e.g. 'Environmental')
- mostly recommendations, few direct questions some tips for practical decision-making



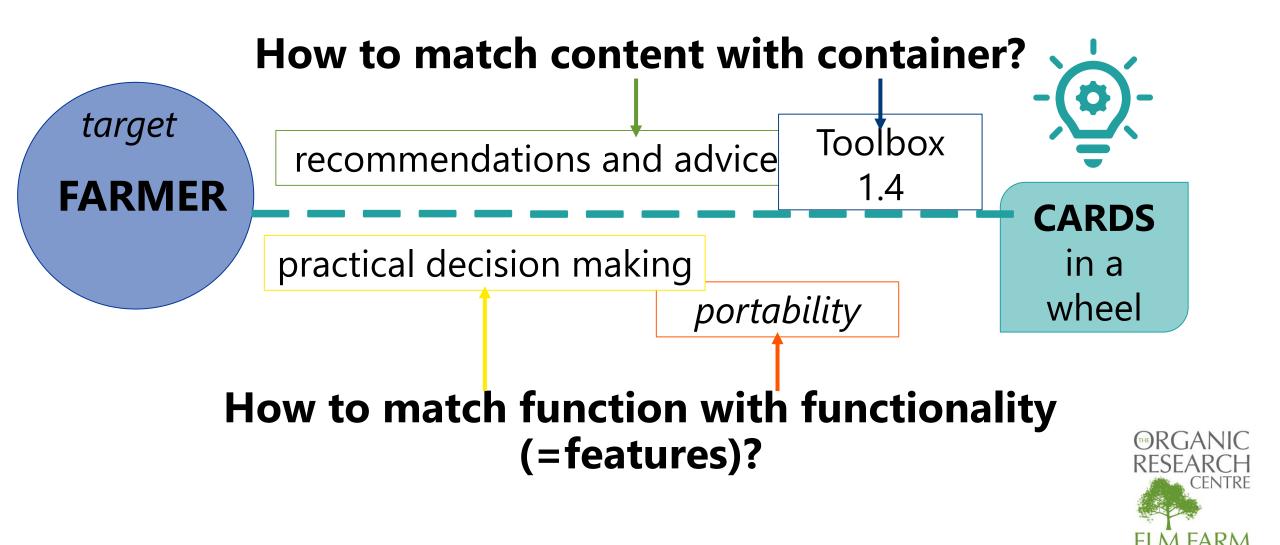


Design - shaping the idea





Design - address the target



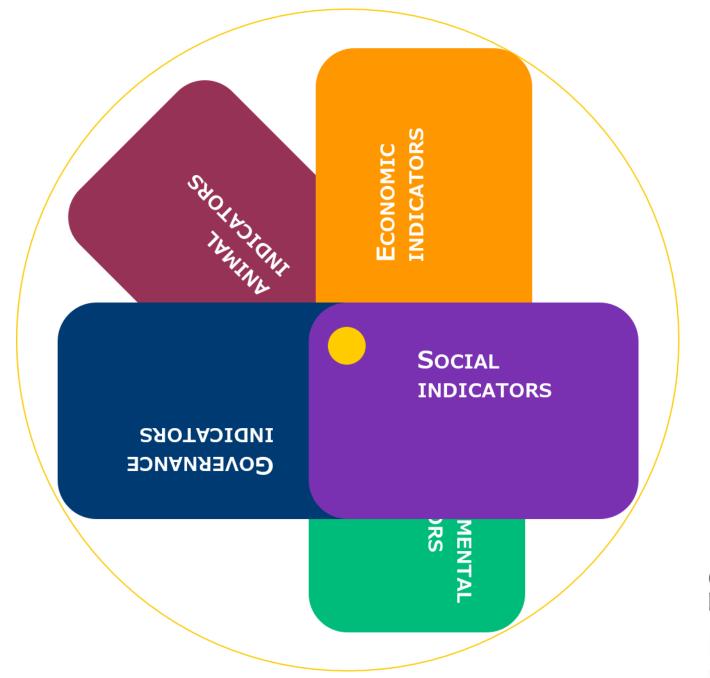


Design - the concept

- The concept. If you have a smartphone or a penknife in your pocket, you can have Sageguard Cards as well, maybe as your keyring
- The meaning. Not to study, not to just play with, you can use these cards as a starting point towards a sustainable system
- The symbol. The playing cards as a game, or the tarot ones as a way to tell a story about someone, are both an ancient symbol and part of everyday life from the Far Eastern countries to the European ones



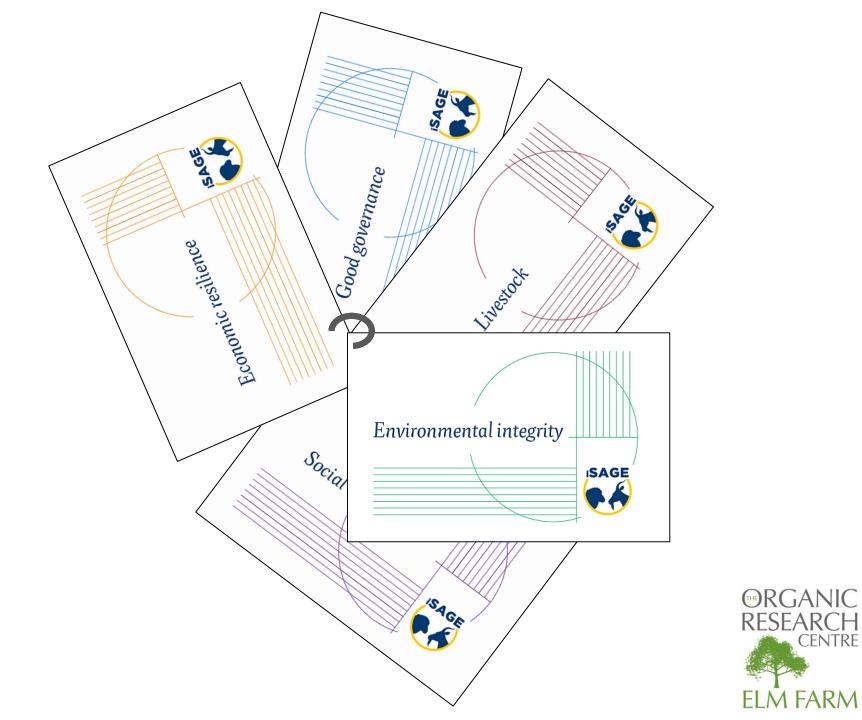
Design first draft







Design final version





Design - the graphics

- Each dimension (e.g. 'Livestock') has a colour (e.g. 'oxblood'). Each subtheme (e.g. 'Soil') has an icon to better visualise it. Each indicator card (e.g. 'Erosion-Compaction-Quality') has a number to better remember it when you want to search for it
- At the end of every dimension there is also a QR code that links directly to the iSAGE website. At the bottom of every indicator card there is instead the link to the Sageguard.net website
- The pattern of lines and circles echoes the paths / furrows and the moon / crop rotation, or the notes (lines) we can jot down to intercept the farm's world closed system (circles)





Design - online adaptation

- The subtheme cards are now single posts, everyone within their categories (dimension and theme) and tags (keywords for search)
- The categories are also pages showed in the breadcrumbs and in the navigation menu
- The questions in the indicator cards are now replaced with the links, guidelines towards sustainability
- The pattern of Sageguard Cards is used as a button to click on the topic, and the icon of every subtheme is now a full size image displayed alongside the links
- The responsive design supports usability, no matter the device





Design - the sustainability

- The CMS (Content Management System) is WordPress, released under a GNU General Public License (GNU GPL or GPL), a widely-used free software license that guarantees end users the freedom to run, study, share, and modify the software
- The hosting server is Bluehost, recommended by WordPress.org since 2005
- The printing press is FSC (Forest Stewardship Council) certified





...Do you understand the name?

a starting point towards a sustainable system

recommendations

the moon / crop rotation

an ancient symbol

guidelines towards sustainability





