



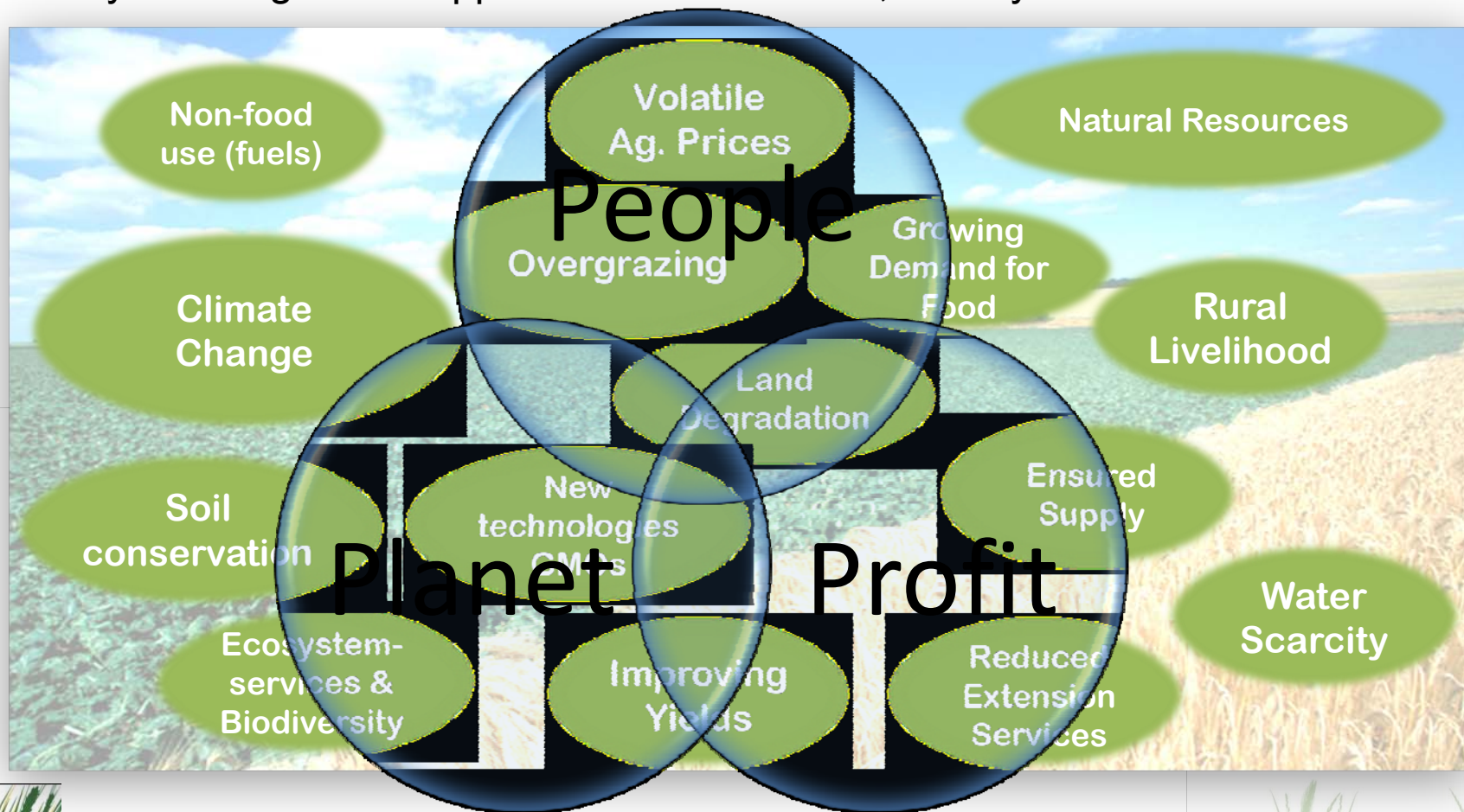
# Sustainable Performance Assessment (SPA)

SUSTAINABLE Agriculture Dashboard@ the farm



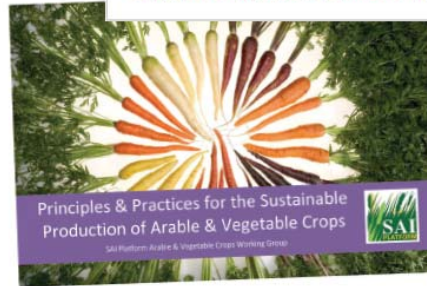
# Why Sustainable Agriculture?

Many challenges and opportunities for farmers, society & the food sector

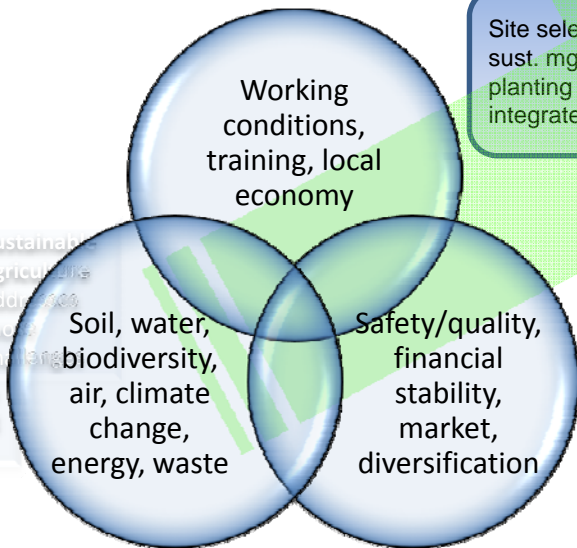


# Best Practices

## SAI Platform Principles & Practices



Available on: [www.saiplatform.org](http://www.saiplatform.org)



Site selection, sust. mgt, planting methods integrated

Sustainable agriculture addressing the challenges of food security for a growing population.



2000

2002

2010

3

3

# Example of Best Practices

## 4. Environmental Sustainability

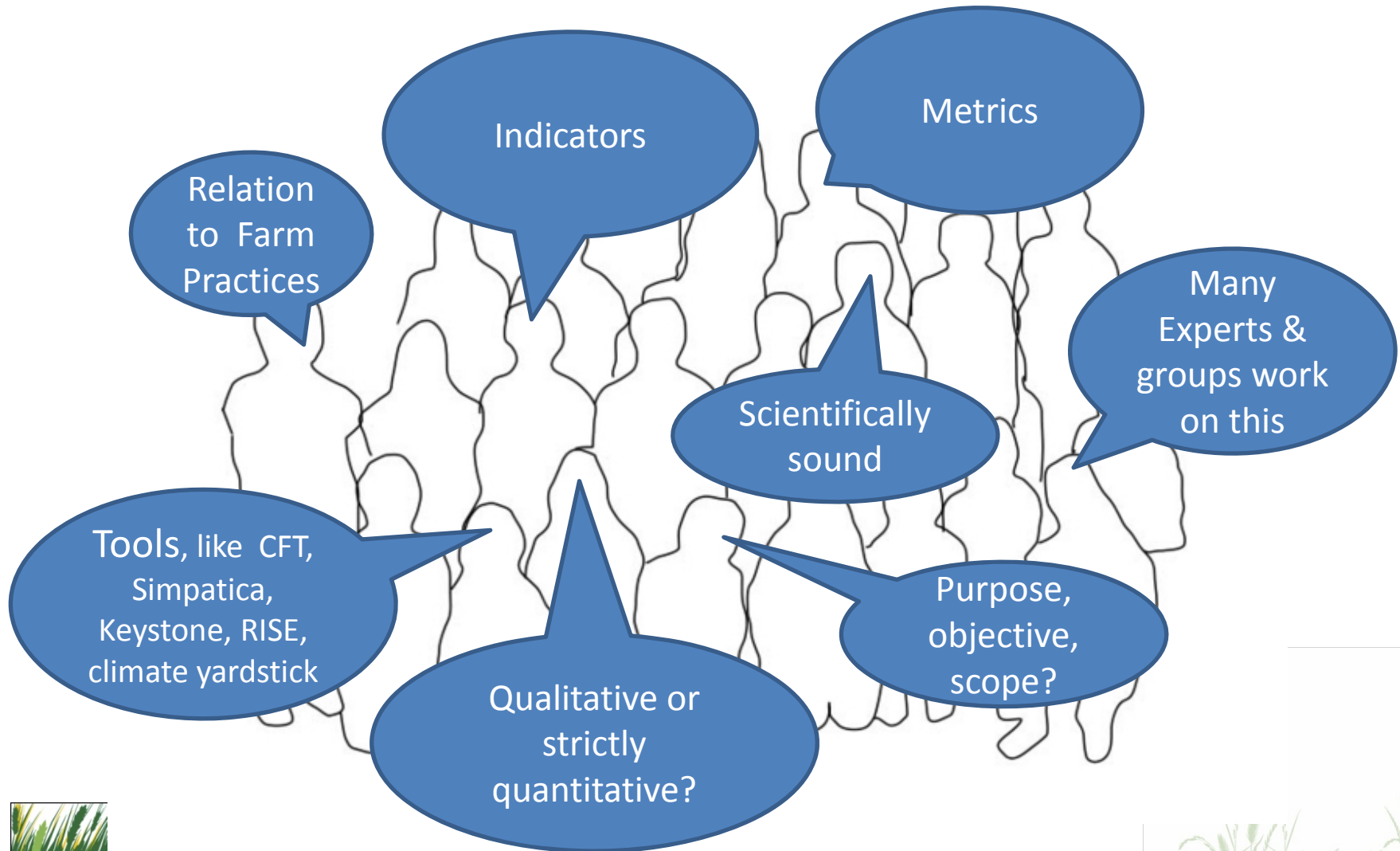
Item	Principles	Recommended Practices
4.1 Soil	ENV1. Maintain good soil fertility and prevent damage to the environment, soil erosion and pollution.	<p>Cultivation methods and equipment <b>shall</b> consider the following:</p> <ul style="list-style-type: none"> <li>• Soil type</li> <li>• Cultivation is timed to match soil conditions, i.e. should be avoided when soil is wet</li> <li>• Farmers avoid cultivation of steeply sloping fields, follow contours with operations for soil preparation as much as possible or use terracing</li> <li>• All cultivation equipment is regularly checked and maintained, including tyre pressures.</li> </ul> <p>soil organic matter. For those soil not appropriate or where tenacious be necessary.</p>
4.2 Water	ENV2. Properly manage and optimise water use.	<p>The Farm enterprise activities <b>shall</b> not beyond the recharge capacity of the water consider the following:</p> <ul style="list-style-type: none"> <li>• An assessment of the hydrologic conditions before adopting any irrigation system drainage maintenance in wet climate</li> </ul> <p>consultant. Water extraction licences, where field, are complied with.</p> <p>An irrigation management system <b>shall</b> be used to ensure that:</p> <ul style="list-style-type: none"> <li>• Irrigation is only used when it can enhance the yield and quality of crops produced.</li> <li>• Timing and amount of irrigation is tailored to crop requirements.</li> <li>• Irrigation takes into account predicted rainfall and evaporation, using either daily rainfall records or weather forecasts to plan irrigation schedules)</li> <li>• The most efficient and commercially practical water delivery system is</li> </ul>

So what?

## How to measure and report about improvement?

- Check if best practices are applied (this is what the schemes do)
- **Align on consistent, basic, key metrics for Sustainability Performance Assessment & measure**

# What are you talking about?



## SPA Phase I

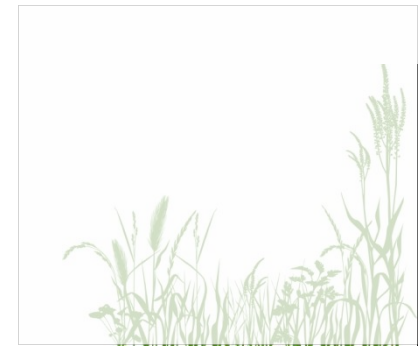
*Looking for a balanced system of farm metrics that facilitates a farmer to measure, understand, improve and report progress.*

1. Started from the Principles
2. Looked what is globally available. No reinvented wheels.
3. Created a long list
4. Selected what is applicable: simple, scientifically sound, readily available@farm, measurable, comparable.

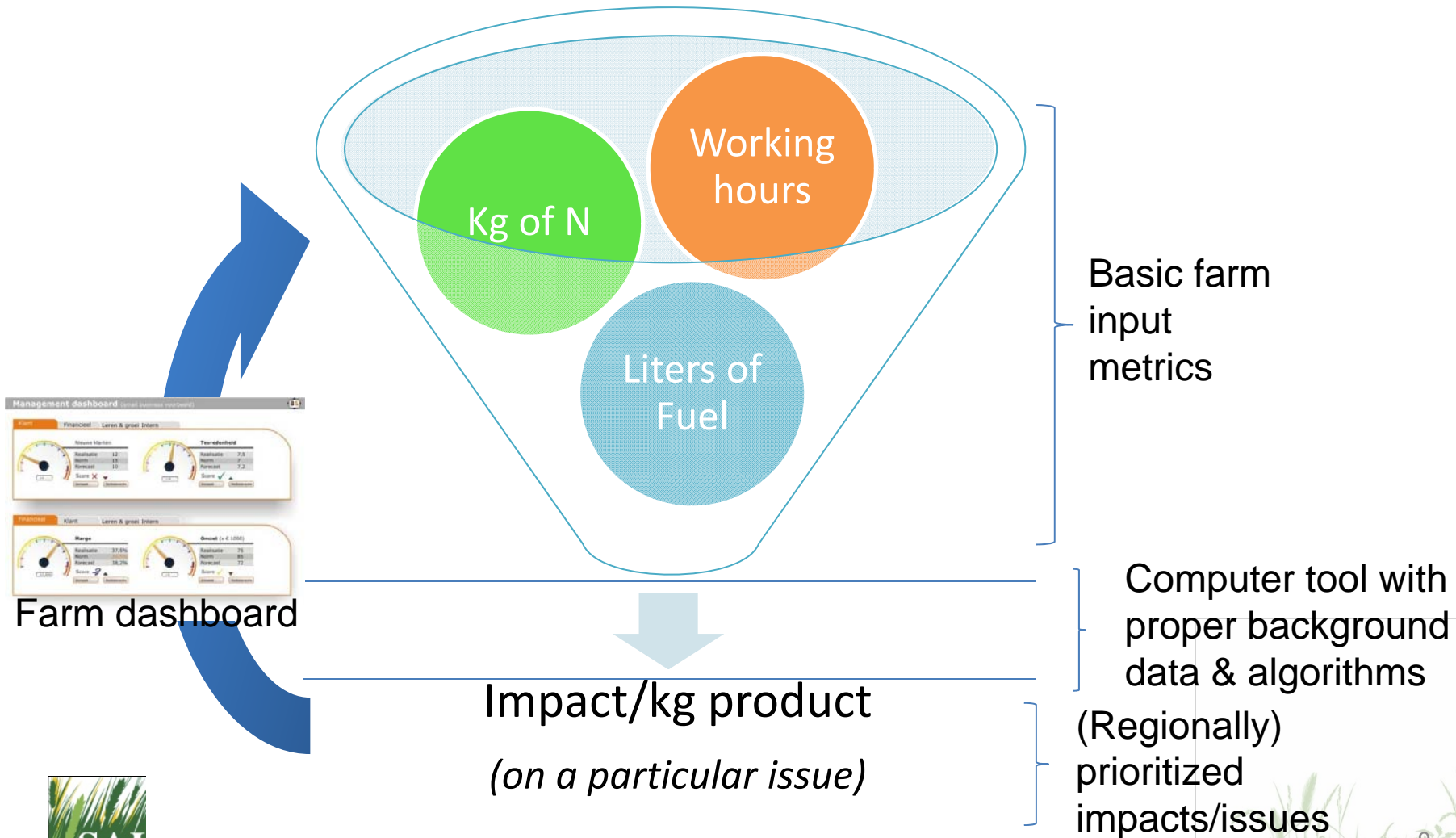
# SPA Phase I – Example of results

**Table 1: Overview of quantified sustainability indicators**

Theme	Indicator	Data derived from
<b>Animal welfare and health (dairy)</b>		
	body condition score, Welfare Quality Approach	estimated on farm (visual inspection)
	space: m2 area per cow and space per animal at feeding fence	measured on farm
	locomotion score	estimated on farm
<b>Hygiene (dairy)</b>		
Milk quality	milk temperature	measured on farm
	substances in milk and somatic cell count	measured on farm
<b>Social</b>		
Employees satisfaction	score (points)	from annual surveys
Training	number/share of employees receiving training	farm records
Worker health & safety	number of accidents and workers reported sick	



# SPA Phase II



## Some caveats for SPA II

- Stay aligned with P&P's and SPA
- Involve farmers and create co ownership
- Balance desired details with limited input 'requirements'
- A farmer should see the fun to play with it and learn by playing
- Stay consistent and forge longer term supply relations
- Developments in this area are going fast now!