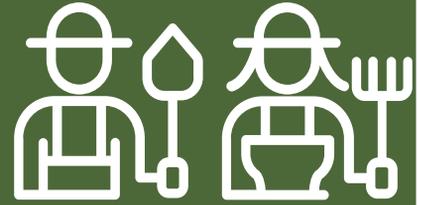


On-farm conservation and regenerative agriculture impact measurement tool

IMPACT MEASUREMENT

The food with integrity score, or “iScore”, is a rapid environmental and social impact measurement tool that provides information with respect to the extent to which climate-smart, conservation and regenerative agriculture outcomes are achieved.



By farmers; for farmers.

CONSERVATION and REGENERATIVE AGRICULTURE (CA/RA)



Minimum soil disturbance



Increased diversity



Living root system support



Increased soil protection

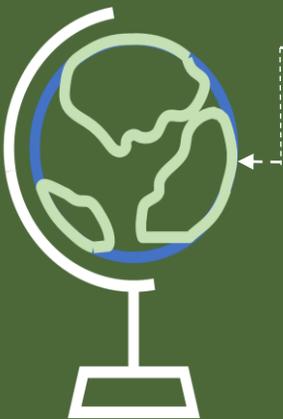


Multi-species integration

CA/RA allows for the healing of the land over time through minimum soil disturbance, increased biodiversity, the support and maintenance of a living root system while protecting the soil and multi-species integration. This is to support the regeneration of on-farm life and to promote water infiltration while reducing erosion that enhances the productive capacity of the land.

This healing has a positive impact on the well-being and livelihoods of people.

Heal the Land; Heal the People



CLIMATE ADAPTATION and MITIGATION

The implementation of CA/RA acts as a **climate change adaptation** strategy by improving the soil’s ability for water infiltration and retention. Increased soil organic carbon increases system-wide resilience. CA/RA also acts as a **climate change mitigation** strategy through soil carbon sequestration and carbon drawdown.

In association with:

- www.restore-africa.com
- www.assetresearch.org.za

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FEATURES OF THE iScore

- The iScore is **inclusive**; all participating producers, irrespective of type, size or geographic region may apply for and will receive a rating.
- There are **five iScore levels** depending on the degree and extent of regeneration.
- The iScore allows participating **producers to set their own goals** regarding the desired level they wish to reach.
- The iScore is informative and **provides guidance** as to which actions to take to reach a desired rating level or goal.
- The iScore **takes into consideration the unique features of the farm** such as the different agro-ecological zones, the availability of water, etc. This allows for assessing the farm's iScore relative to its local context while comparing it to other areas.

*An impact measurement tool:
evaluating on-farm practices to encourage farmers on the road of regeneration.*

THE iScore MEASUREMENT and IMPACT LEVELS

There are five iScore rating levels based on the different production practices and outcomes.

Brown is the first level (participation mode), growing into Green (transition phase) and Blue (mid-level).

The two higher rating levels are denoted as Silver (progressive model) onto Gold (regenerative mode).

The rating level is based on:



7 Indicators

Linked to specific on-farm measurements, designed for either grain crops or livestock.



PARTICIPATION MODE



TRANSITION MODE



SUSTAINABLE MODE



PROGRESSION MODE



REGENERATIVE MODE

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Photo: www.assetresearch.org.za



EXTENSIVE GRAZING SYSTEMS



Cluster	Outcome	Indicator
Resource availability	Resource availability	The percentage of the cost of external feedstock relative to gross income
	Biomass production efficiency	The biomass index of the participant expressed as a ratio to a district and industry-specific norm
Management system	Biodiversity promotion	The degree to which rotational/planned grazing is applied
Outcome	Water use efficiency	The blue and green water use relative to the production value expressed as a ratio to a district and industry-specific norm
	Land use efficiency	The on-farm carrying rate i.t.o. LSU/ha, normalised with the biomass availability, expressed as a ratio to a district and industry-specific norm
	Greenhouse gas emission efficiency	The GHG emissions relative to the production value by the participant expressed as a ratio to a district and industry-specific norm
Care about the future	Capacity building and mentorship	The number of SACNASP credits, or certified attendance of any other relevant ongoing training program, of the participant's employees, divided by the number of full-time equivalent employees not in senior management

Bonus points can be earned for a range of on-farm innovations that lead to regeneration.

- Each individual criterion is rated, and an aggregated weighted average is calculated for a specific farm or land parcel.
- The detailed description of the individual indicator scores can assist a farmer to focus on aspects where regenerative practices can be improved.
- The iScore is a road map to restoration and regeneration through learning and encouragement!



On-farm conservation and regenerative agriculture impact measurement tool



Photo: www.assetresearch.org.za



GRAIN PRODUCTION SYSTEMS



Cluster	Outcome	Indicator
Resource availability	Erosion control efficiency	The crop production method and the percentage ground cover before planting
	Biomass production efficiency	An index of biomass of the participant expressed as a ratio to a district and industry-specific norm
Management system	Biodiversity promotion	The diversity and integration between the number and type of crops, cover crops and livestock
Outcomes	Water use efficiency	The biomass of the cash and cover crops divided by the total available water of the participant expressed as a ratio to a district and industry-specific norm
	Land use efficiency	The total calorific production value of the 1 st and 2 nd crops as well as the animals supported, divided by the calorific value of a single crop use system
	Input use efficiency	The external input as percentage of gross income per ha of the participant expressed as a ratio to a district and industry-specific norms
Care about the future	Capacity building and mentorship	The number of SACNASP credits, or certified attendance of any other relevant ongoing training program, of the participant's employees, divided by the number of full-time equivalent employees not in senior management

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