Solidaridad

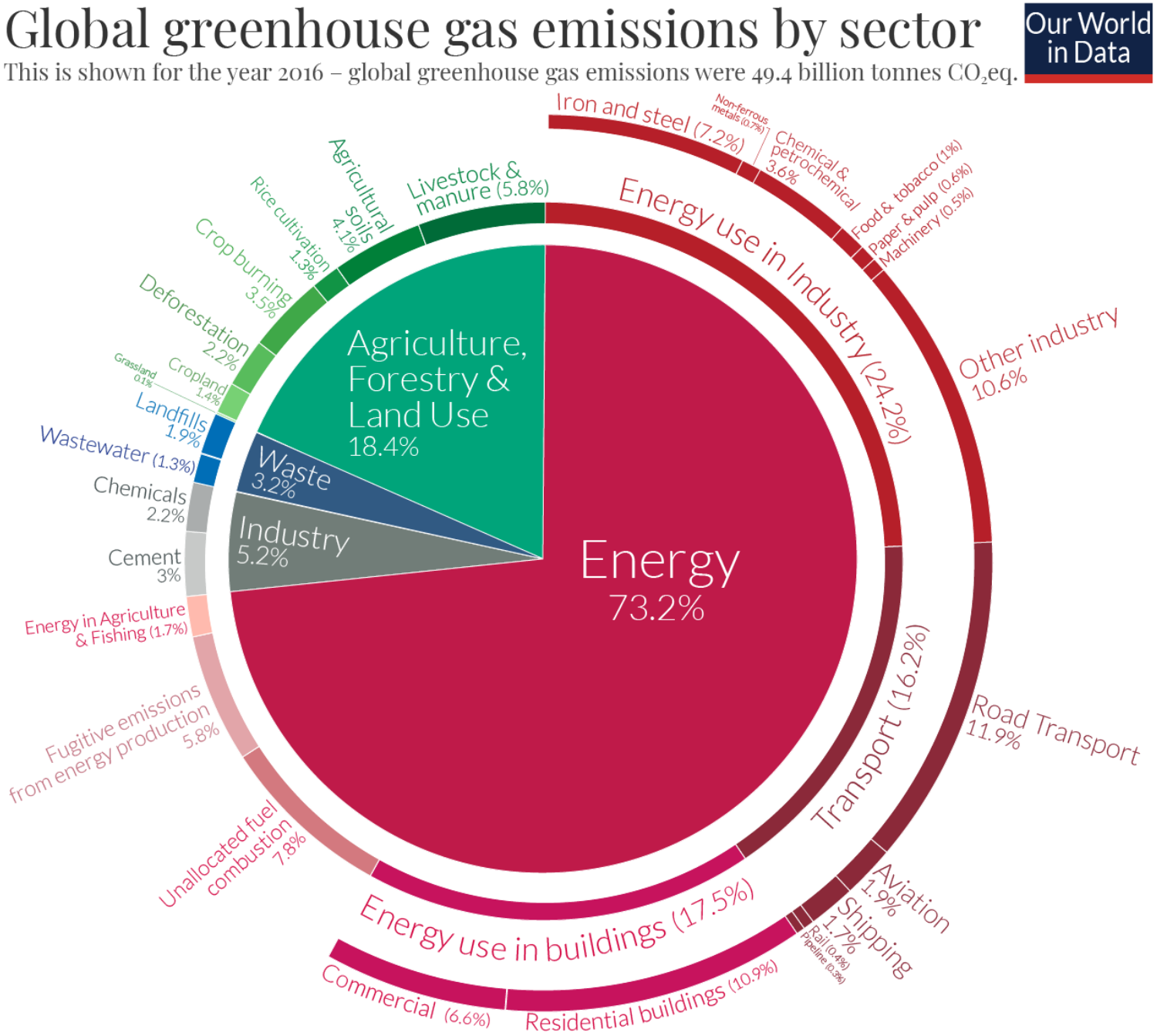
regenagri

Promoting Regenerative Agriculture with regenagri® initiative

The global scenario

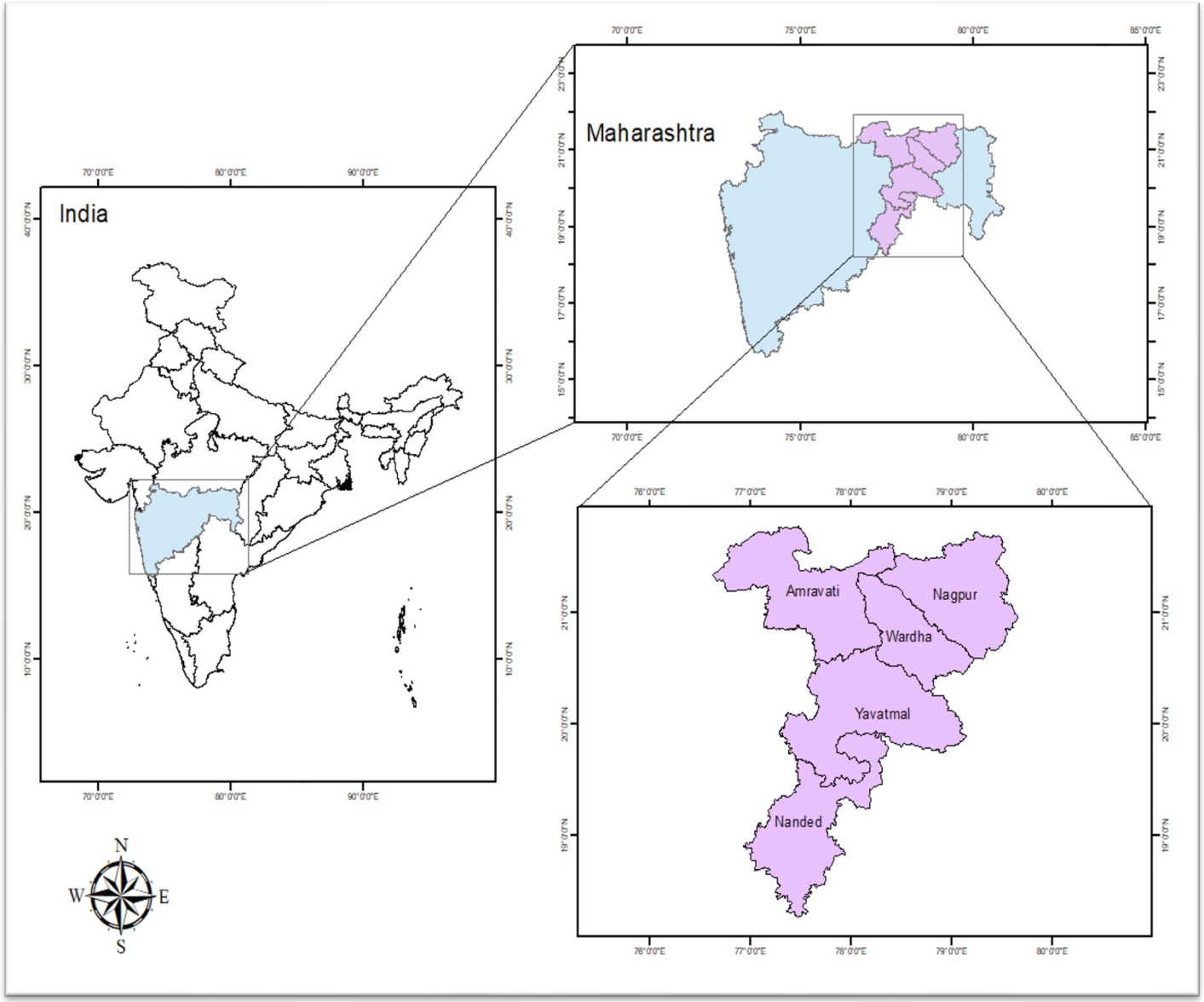
- Agriculture sector accounted for more than 9 billion tonnes of GHG emissions in 2016.

- Additionally, according to FAO, 33% of the fertile soils have already degraded, which could rise to 90% by the year 2050. Major factors for this include overuse of chemical inputs in farming, deforestation, and exploitation of water resource.



Challenges in Vidarbha, Maharashtra

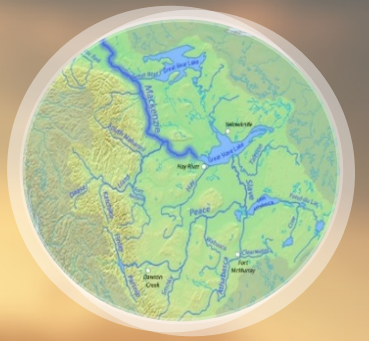
- The region faces frequent crises due to erratic rainfall patterns and pest infestations
- Traditional resource- intensive farming practices prevail among smallholders
- Excessive water usage has led to water scarcity issues, affecting both farmer and the environment
- Heavy usage of chemical fertilizers and exploitation of water sources further exacerbates GHG emissions



Introducing **regenagri®**

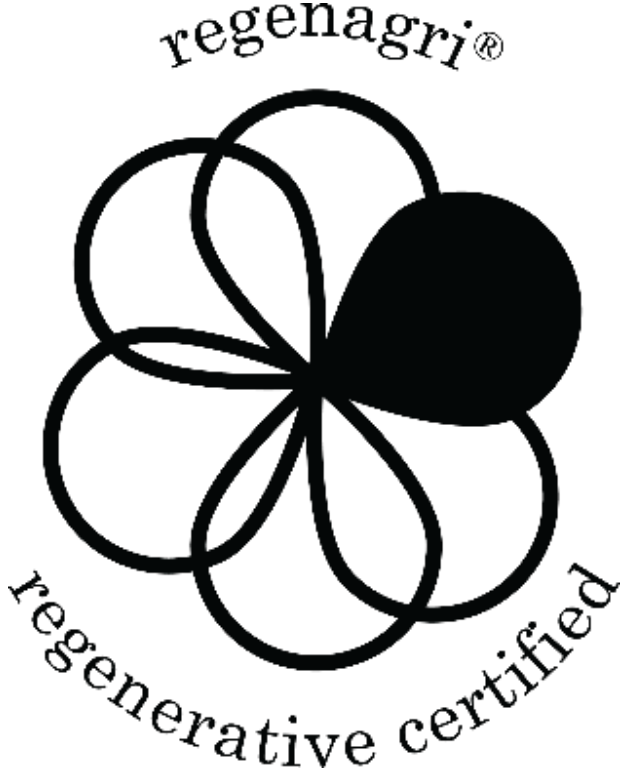
regenagri® is a regenerative agriculture initiative aimed at securing the health of the land and the wealth of those who live on it.

It supports farms and organizations to transition to holistic farming techniques that increase soil organic matter, encourage biodiversity and sequester CO_2.



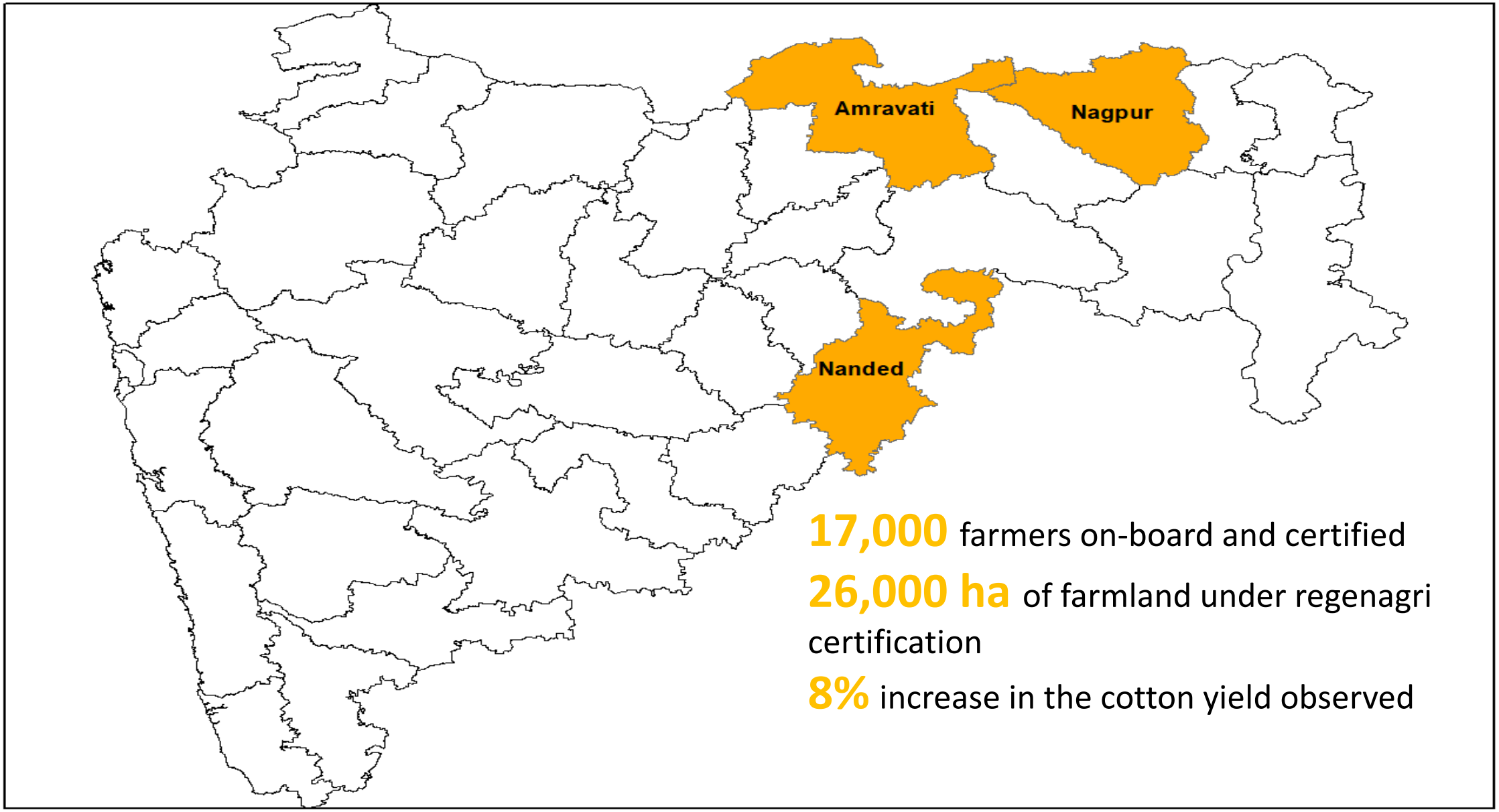
The regenagri® approach

regenagri provides the solution to support farms and organisations transitioning to holistic farming, increasing soil health, encouraging biodiversity, reducing GHG emissions and sequestering CO_2 .



- Third-party validation of sustainable practices, thereby, building credibility and trust with consumers and partners
- Encourages ongoing learning and adaptation, ensuring continuous improvement for the farms
- Through regenagri certification, farms can track and quantify their positive environmental impact

Project Overview

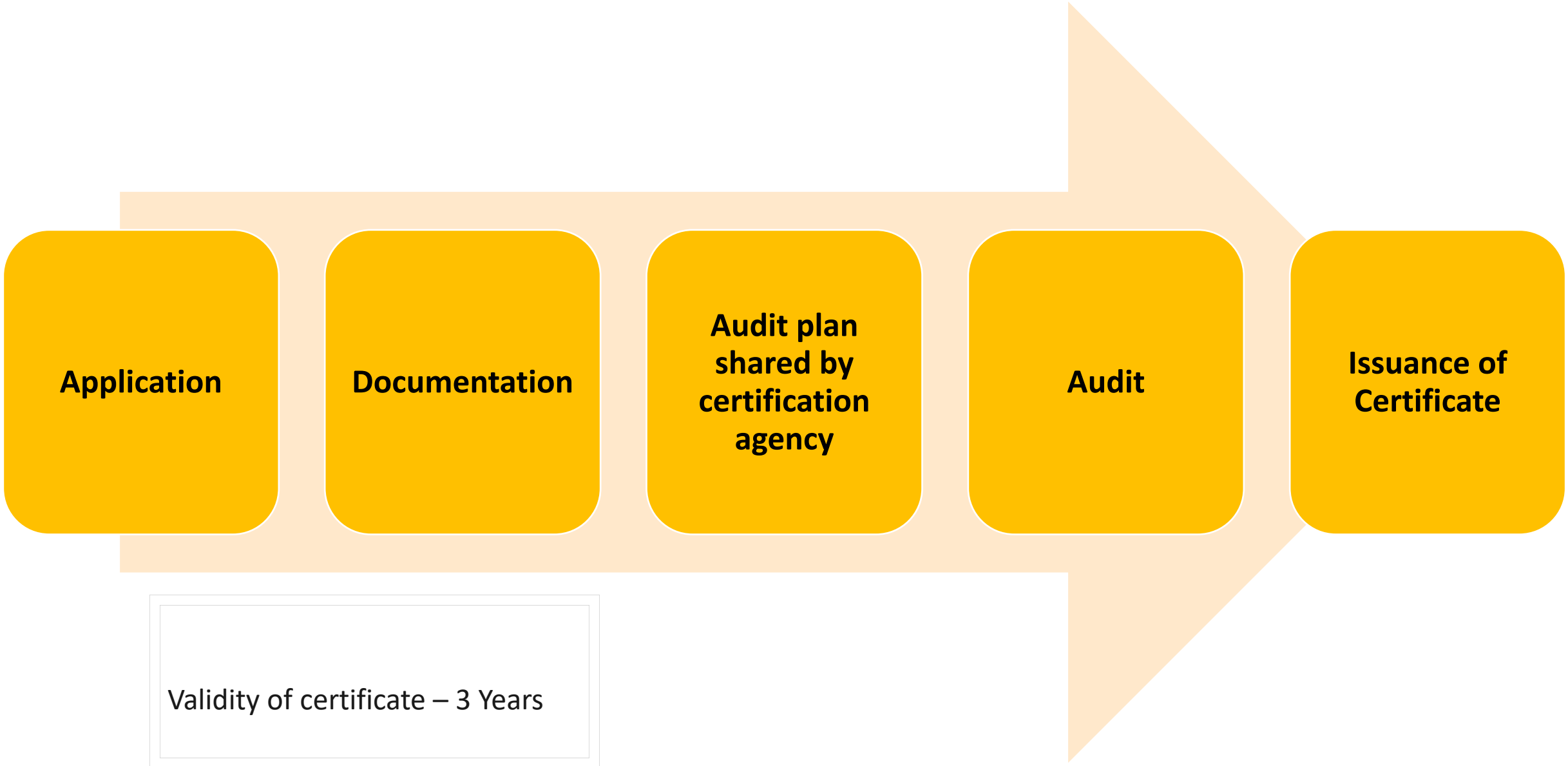


17,000 farmers on-board and certified

26,000 ha of farmland under regenagri certification

8% increase in the cotton yield observed

The regenagri® certification process



Validity of certificate – 3 Years

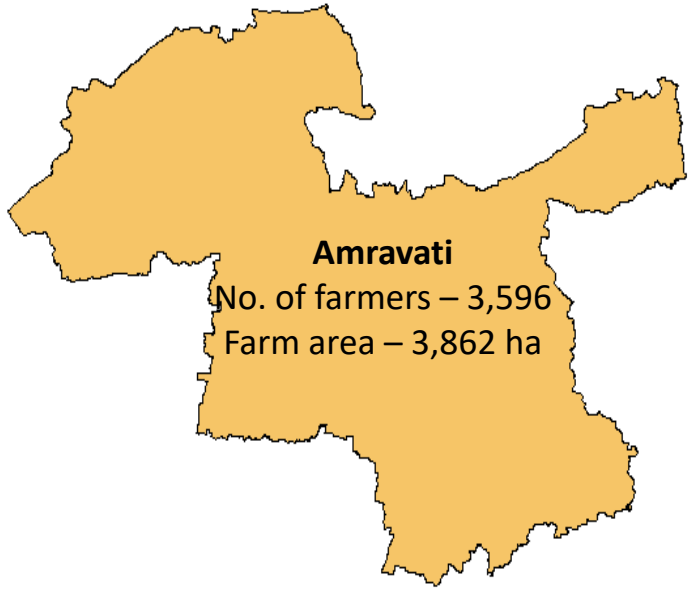
Project activities

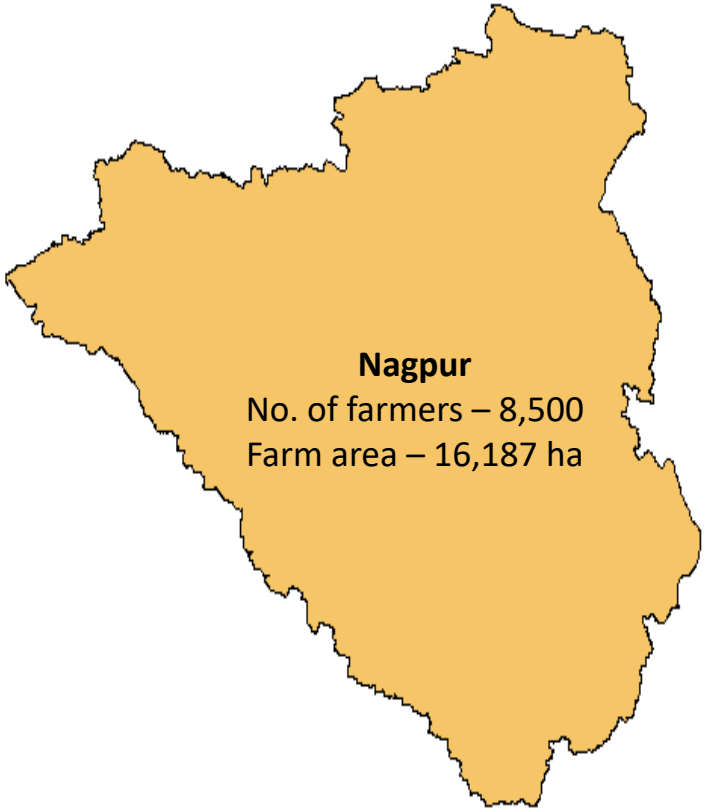
Major activities		
Minimum Tillage	Cover Crop Integration	Crop Rotation & Diversification
Intercropping	Perennial Cropping	Usage of biological inputs
Efficient use of water	Biodiversity Conservation	Afforestation
Livestock Integration	Pollution Prevention	Rainwater Harvesting
Renewable Energy Promotion	Conservation of Natural Habitat	Integrated Pest Management

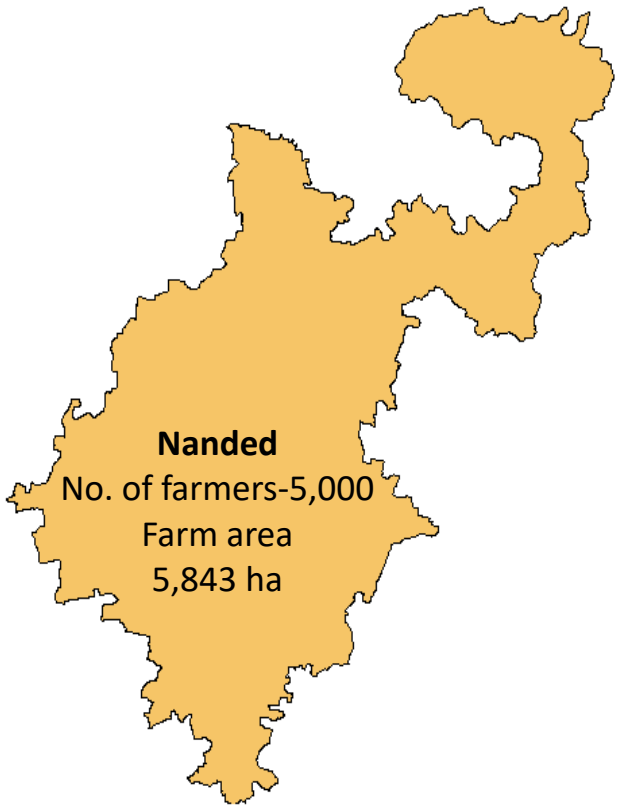
Supported by

- Farmers' Field School
- Demonstration Plots
- Soil Testing support
- Digital Advisories
- Capacity Building
- Audit and Certification Process

Project outreach







SREC- Amravati 1000	SREC- Nagpur project 1	SREC- Nanded Project 1
SREC- Amravati Smart	SREC- Nagpur project 2	SREC- Nanded Project 2
	SREC- Nagpur 1000	
	SREC-Nagpur Smart	

Shift from soil degradation to improvement in soil health

Intensive tilling, use of chemical fertilizers replaced with minimum tillage, use of compost

- **12,500** farmers supported with Vermicompost units.
- **58,00 plus farmers** involved in composting practices
- **28,285** farmers trained on minimum - tillage practices

Integrated Pest & Nutrient Management with natural crop protection strategies

Usage of chemical pesticides minimized and cultivation practices enhanced with usage of naturally derived farm yard manure, compost prepared with vermi-cultures, plants such as Neem, and other biologically prepared organic inputs locally called 'Dashparni' and 'Jeevamrut'

- **12 %** reduction in the cost of cultivation, from approx. 35,000 to 30,500 observed
- Improvement in **plant and soil health. Reduced exposure** of farm workers to hazardous chemicals
- An observed **8% increase** in cotton yield

Water Management and Conservation

- **2,060** farmers availed financial support for water harvesting and micro-irrigation systems
- **16,500** farmers adopted water efficient practices
- **6.2 million litres** of water use avoided through trash mulching in **5,000 acres** of farm land
- **4 million litres** of water use avoided through drip irrigation in **2,000 acres** of farm land

Addressing GHG emissions and promoting carbon sequestration

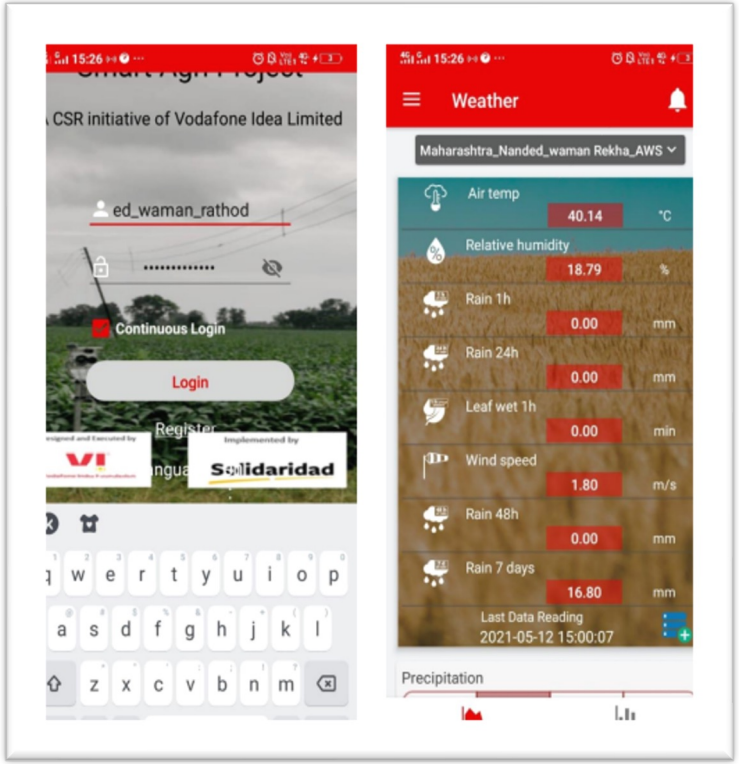
- **1242 farmers** supported with renewable energy equipment
- **28,285 farmers** trained on minimum tillage practices
- **1225 bio-digesters** provided to the farmers
- Evident reduction in trash burning, with area under trash mulch practice rising to **6,500 acres**
- **10,000 trees** planted in collaboration with the government
- An estimated **1.4 MT/acre** of CO_2 emission reduced

Integrating technology for capacity building

- A well-established network of *state-of-the-art* hardware equipped smart plots to disseminate information on weather, crop pattern, irrigation scheduling, and pest control

- More than **46,000 farmers** benefitting from irrigation schedule advisories

- Associated farmers reported a **40% reduction** in chemical usage as direct result of timely advisories on weather patterns and pest management



THANK YOU