

## SUSTAINABLE RANGELAND MANAGEMENT TOOLKIT FOR RESILIENT PASTORAL SYSTEMS

Sustainable rangeland management toolkit with a holistic and multidisciplinary approach for addressing the biophysical and sociocultural aspects under changing climate and land use leading towards more resilient pastoral systems.

**2023**  
1st Edition

The sustainable rangeland management (SRM) toolkit advocates for a holistic and participatory multi-stakeholder approach that emphasizes the important role played by governance of rangelands using bottom-up landscape restoration. It emphasizes the need to ensure that decisions are based on both indigenous knowledge and modern science to address site-specific challenges. The goal of the toolkit is to assist and prepare practitioners working closely with local communities perform proper diagnostic, plan, and implement specific interventions and continuously monitor and evaluate rehabilitation or restoration efforts. Users have access to a collection of validated SRM practices aimed at achieving a neutral level of degradation (LDN) and offering a strong potential to rehabilitate and restore degraded rangeland ecosystems. The case studies demonstrate step by step how the toolkit is used to identify practical solutions that are integrated and socially accepted leading towards more resilient livestock and pastoral systems.



### INNOVATION TYPOLOGY



THIS INNOVATION IS CHARACTERIZED AS  
**Technological Innovation**

Innovations of technical/material nature, including varieties/breeds; crop and livestock management practices; machines; processing technologies; big data and information systems.



THE NATURE OF THIS INNOVATION IS  
**Disruptive Innovation**

Innovations that are new and cause or require major reconfiguration of farming, market and/or policy/business models.



## THIS INNOVATION IS EXPECTED TO CONTRIBUTE TO THE FOLLOWING IMPACTS

### CGIAR IMPACT AREAS AND COLLECTIVE GLOBAL TARGETS

- 1 Nutrition, health & food security
- 2 Poverty reduction, livelihoods & jobs
- 3 Gender equality, youth & social inclusion
- 4 Climate adaptation & greenhouse gas reduction
- 5 Environmental health & biodiversity

Learn more: <https://www.cgiar.org/how-we-work/strategy>

### SDGs AND SDG TARGETS

- 1 End poverty in all its forms everywhere
- 2 End hunger, achieve food security and improved nutrition and promote sustainable agriculture
- 6 Ensure availability and sustainable management of water and sanitation for all
- 8 Promote sustained, inclusive and sustainable economic growth, full and productive employment and decent work for all
- 13 Take urgent action to combat climate change and its impacts
- 15 Protect, restore and promote sustainable use of terrestrial ecosystems, sustainably manage forests, combat desertification, and halt and reverse land degradation and halt biodiversity loss

Learn more: <https://sdgs.un.org/goals>



## CGIAR INITIATIVES, PARTNERS AND GEOSCOPE

### CGIAR LEAD INITIATIVE

**Livestock and Climate**

### CGIAR CONTRIBUTING INITIATIVE(S)

**Agroecology**

### CONTRIBUTING BILATERAL PROJECTS

Enhancing Food Security and Sustainable Management of Natural Resources through Fostering Integrated Agricultural Production Systems in the Arabian Peninsula

### PARTNERS INVOLVED

**IUCN** – International Union for Conservation of Nature (Switzerland) - Scaling, Innovation partner

**DGF** – Direction Générale des Forêts Tunisie/The Directorate General of Forests (Tunisia) - Scaling, Demand partner

**ESAM** – École Supérieure d’Agriculture de Mateur/School of Higher Education in Agriculture of Mateur (Tunisia) - Scaling, Demand partner

**OEP** – Office de l’Élevage et des Pâturages (Switzerland) - Scaling, Demand partner

### THIS INNOVATION IS DEVELOPED, TESTED AND/OR SCALED FOR/IN THE FOLLOWING REGIONS/COUNTRIES





## ACKNOWLEDGEMENTS


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## MORE INFORMATION

### CONTACT PERSON

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### CITATION

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## CURRENT INNOVATION READINESS

9

### PROVEN INNOVATION

The innovation is validated for its ability to achieve a specific impact under uncontrolled conditions

8

### UNCONTROLLED TESTING

The innovation is being tested for its ability to achieve a specific impact under uncontrolled conditions

7

### PROTOTYPE

The innovation is validated for its ability to achieve a specific impact under semi-controlled conditions

6

### SEMI-CONTROLLED TESTING

The innovation is being tested for its ability to achieve a specific impact under semi-controlled conditions

5

### MODEL/EARLY PROTOTYPE

The innovation is validated for its ability to achieve a specific impact under fully-controlled conditions

4

### CONTROLLED TESTING

The innovation is being tested for its ability to achieve a specific impact under fully-controlled conditions

3

### PROOF OF CONCEPT

The innovation's key concepts have been validated for their ability to achieve a specific impact

2

### FORMULATION

The innovation's key concepts are being formulated or designed

1

### BASIC RESEARCH

The innovation's basic principles are being researched for their ability to achieve a specific impact

0

### IDEA

The innovation is at idea stage

### INNOVATION READINESS JUSTIFICATION

We chose innovation readiness level 6 (semi-controlled testing) for the SRM toolkit because we already have tested this in 3 different agroecological context (North Africa, West Asia, Central Asia). The toolkit is flexible enough to accommodate terrestrial ecosystems and it is build as a moving target where additional technical.

### EVIDENCE SUPPORTING THE INNOVATION READINESS LEVEL

[bit.ly/43CAggX](https://bit.ly/43CAggX)

[bit.ly/43EY3N6](https://bit.ly/43EY3N6)