

# SIS Framework: Roadmap for building a soil information system.

Empower the soil data community with best practice tools and lessons learned for a sustainable SIS!

The SIS Framework by CABI and ISRIC offers practical, phased guidelines for developing soil information systems, addressing financial, institutional, and technological aspects with tools and resources.



**CABI and ISRIC- World Soil Information**  
Melissa Allan

This technology is **pre-validated**.

9·8

Scaling readiness: idea maturity 9/9; level of use 8/9

Gender assessment 3

Climate impact 7

## Problem

- SISs often fail after project funding ends due to the absence of sustainable transition plans.
- Limited technical capacities hinder the development of data-driven products and system maintenance, leaving user needs unmet.
- Poor understanding of target users and use cases leads to unclear objectives and weak SIS planning.
- Inconsistent data formats and poor governance complicate data analysis and sharing.

## Solution

- Co-develop financial sustainability plans to ensure long-term viability.
- Build technical capacity and identify roles for SIS design, development, and maintenance.
- Conduct needs assessments for users, beneficiaries, and data producers.
- Track the impact of the SIS and adapt to evolving user needs.

## Key points to design your program

The SIS Framework offers a structured pathway to build integrated Soil Information Systems in Africa, empowering governments and agencies to collect, analyze, and disseminate crucial soil data.

- By supporting climate resilience (SDG 13) and land restoration (SDG 15), it tackles soil degradation, boosts agricultural productivity, and fosters long-term environmental sustainability.
- Collaborations with CABI, ISRIC, and local stakeholders ensure the framework meets regional needs for a resilient and sustainable future.

**100,000—200,000 USD**

SIS roadmap development workshops, depending on needs.



Open source / open access

Commodities

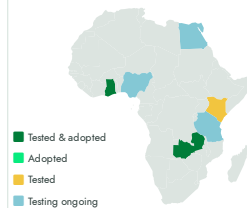
Sustainable Development Goals



Categories

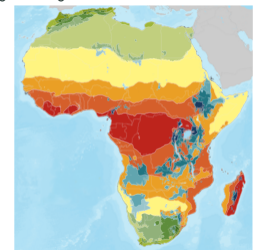
Digital applications,  
Advisory and information service

Tested/adopted in



Where it can be used

This technology can be used in the colored agro-ecological zones.



Target groups

Development institutions, Governments,  
Researcher center, Soil scientists



## SIS Framework

<https://e-catalogs.taatafrica.org/org/technologies/sis-framework-roadmap-for-building-a-soil-information-system>

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