

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
Thaïsa Van Der Woude

✓ This technology is **validated**.

9·8



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

Inclusion 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

All Crops

Sustainable Development Goals



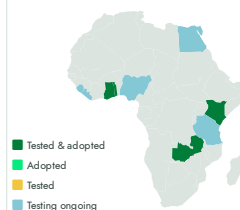
Categories

Production, Policies

Best used with

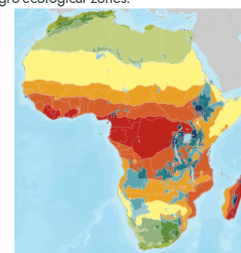
8 steps to develop a Soil Information System (SIS)
See all 1 technologies online

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://taat.africa/igl>

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