

TAAT e-catalog for government

Soil Information Workflow: 8 steps to develop a Soil Information System (SIS)

Soil Information Workflow turns data into insights, helping professionals make smarter, sustainable decisions.

ISRIC-World Soil Information provides a structured approach to collect, organize, and serve soil data, helping users establish efficient soil information systems. It supports better soil management and informed decision-making through a series of eight essential steps, from needs assessment to data serving.



9.7



Scaling readiness: idea maturity

Gender assessment



Climate impact



Problem

- Soil Degradation Crisis: 65% of Africa's productive land is degraded due to desertification, affecting 45% of the continent.
- Africa's soils are deteriorating: Due to factors like organic matter loss, declining fertility, nutrient imbalance, pollution, soil biodiversity loss, increasing acidity, and erosion.
- Key drivers: include overgrazing, deforestation, and unsustainable farming practices, leading to soil degradation that threatens biodiversity, ecosystems, and productivity.

Solution

- Building a Soil Information System (SIS):
 Develop an integrated system to store, analyse, manage, and disseminate soil data to improve soil health and monitor deterioration.
- SIS Profile Development: Create a SIS profile that aligns with use cases and includes a viable business model for long-term sustainability.
- Step-by-Step Design Process: Follow a structured workflow for designing and building the system to ensure effective implementation and functionality.



ISRIC - World Soil Information Thaïsa van der Woude

Commodities

Sustainable Development Goals







Categories

Policies



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

Key points to design your project

This technology provides a comprehensive approach to building or enhancing a Soil Information System (SIS), enabling effective soil data collection, analysis, and dissemination. To develop or improve a SIS in your country, you will need:

- Define the vision and objectives of the SIS.
- · Collaborate with ISRIC and CABI to create a SIS roadmap.
- Collect, store, and organize soil data efficiently.

By adopting this approach, you can address soil challenges, enhance agricultural practices, and promote sustainable land management.

50,000-100,000 USD

Workshop cost varies based on specific needs



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