



Food and Agriculture
Organization of the
United Nations

16th Working Session of the Intergovernmental Technical Panel on Soils (ITPS)

Item 7 SSM protocol – User's Manual

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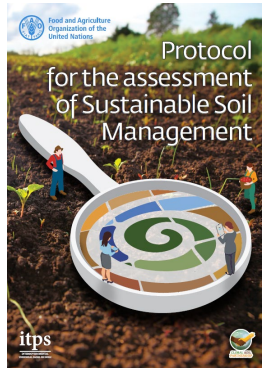
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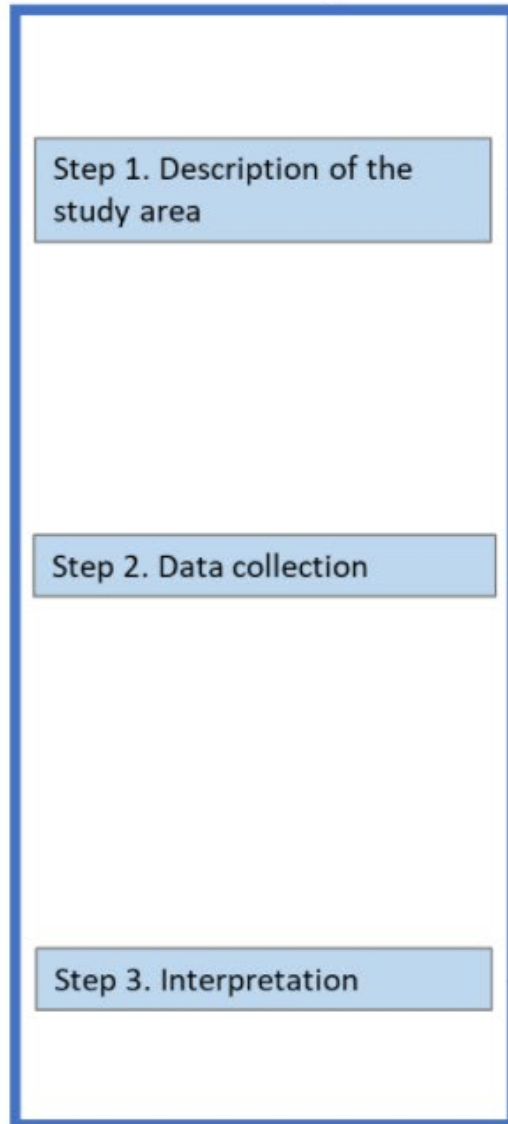
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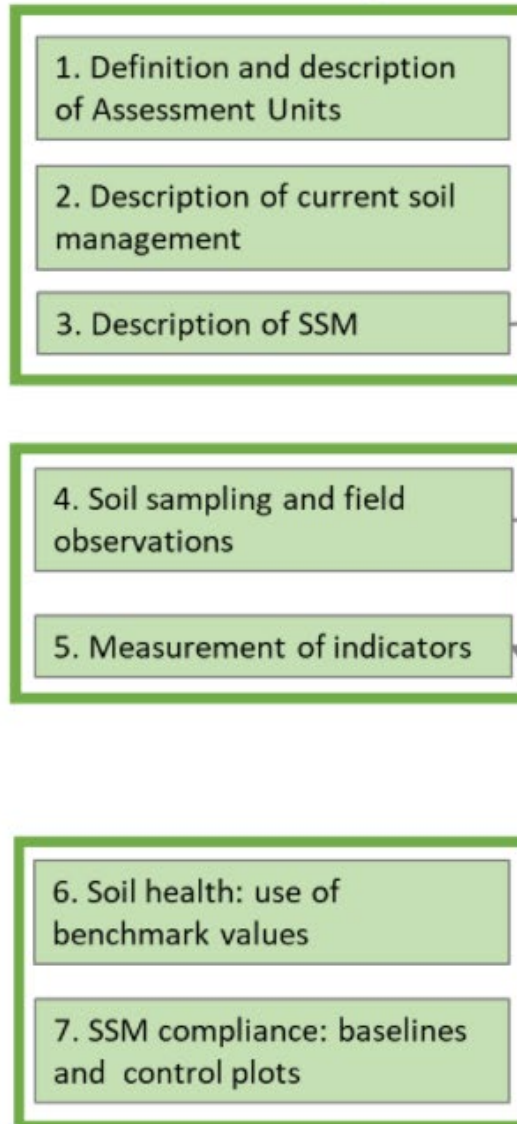
SSM Protocol – User's manual and Annexes



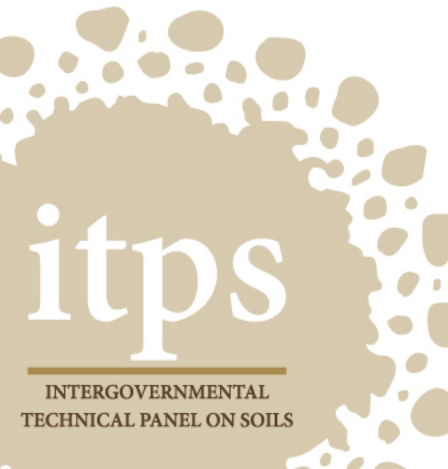
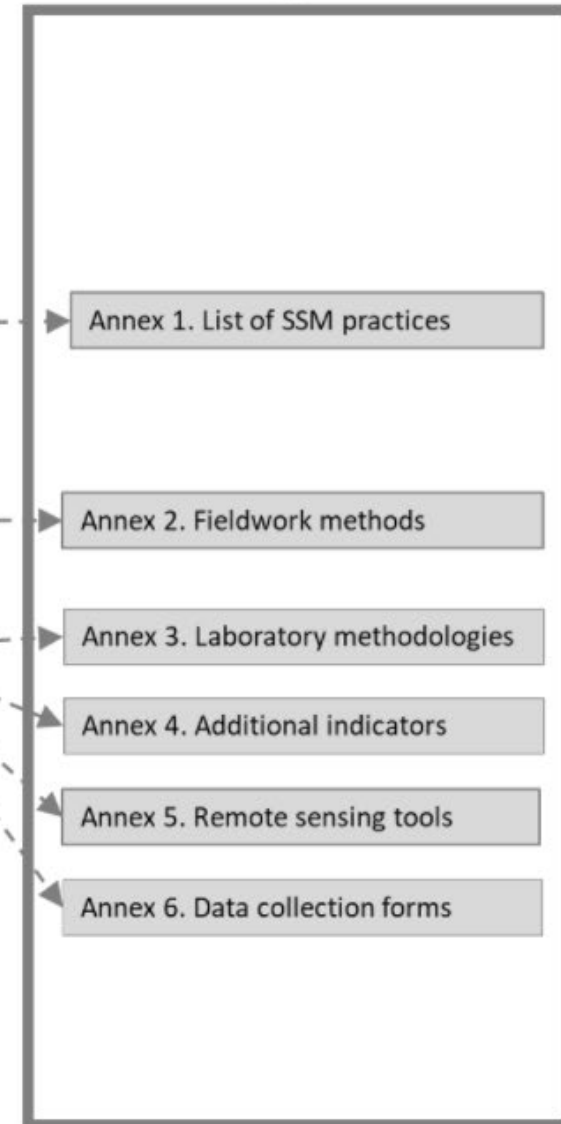
Protocol steps



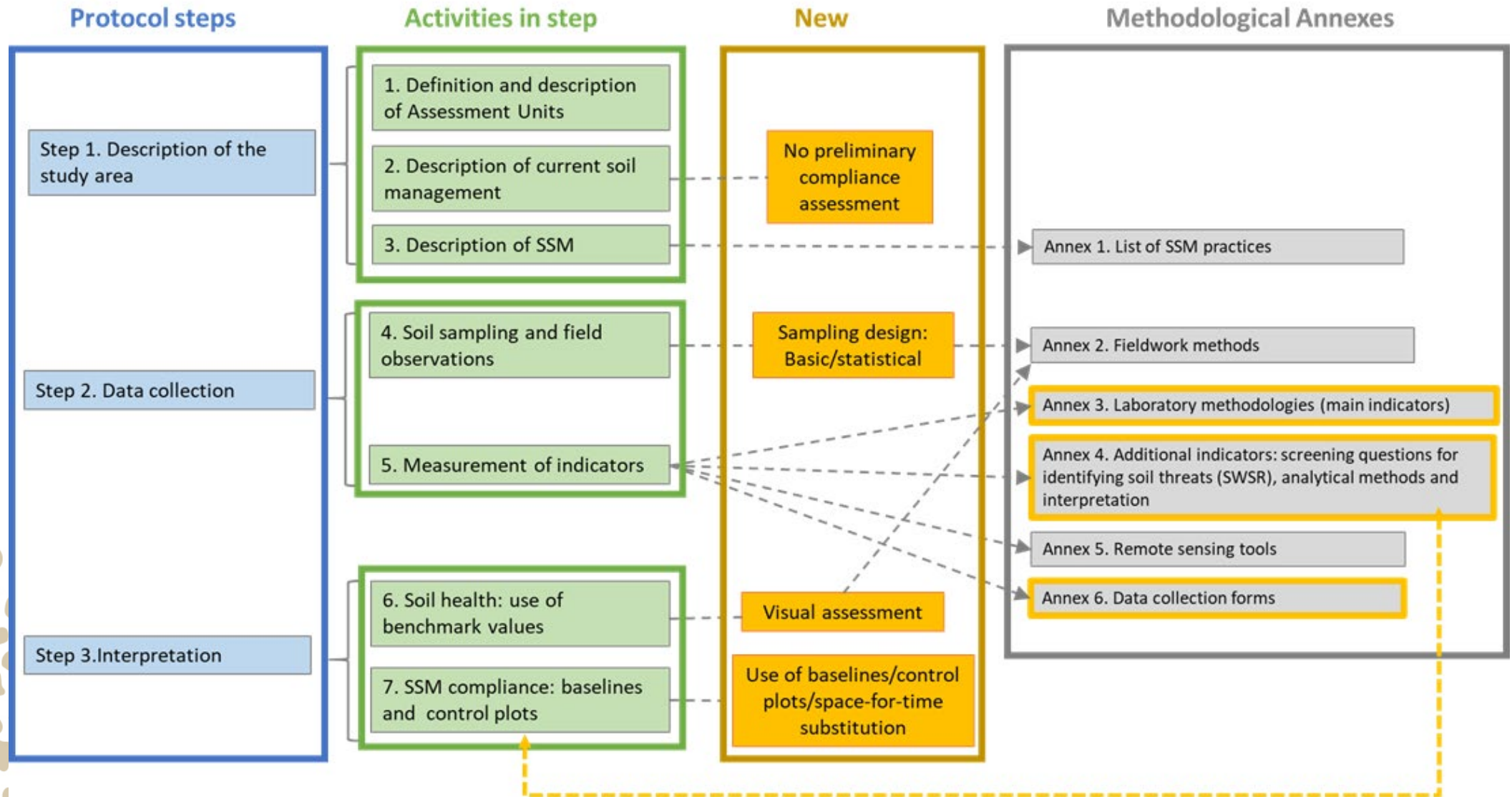
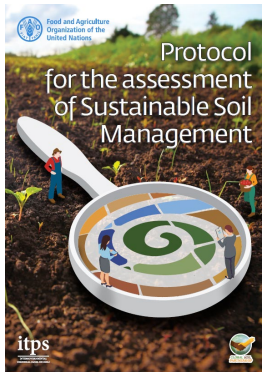
Activities in step



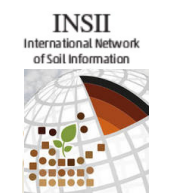
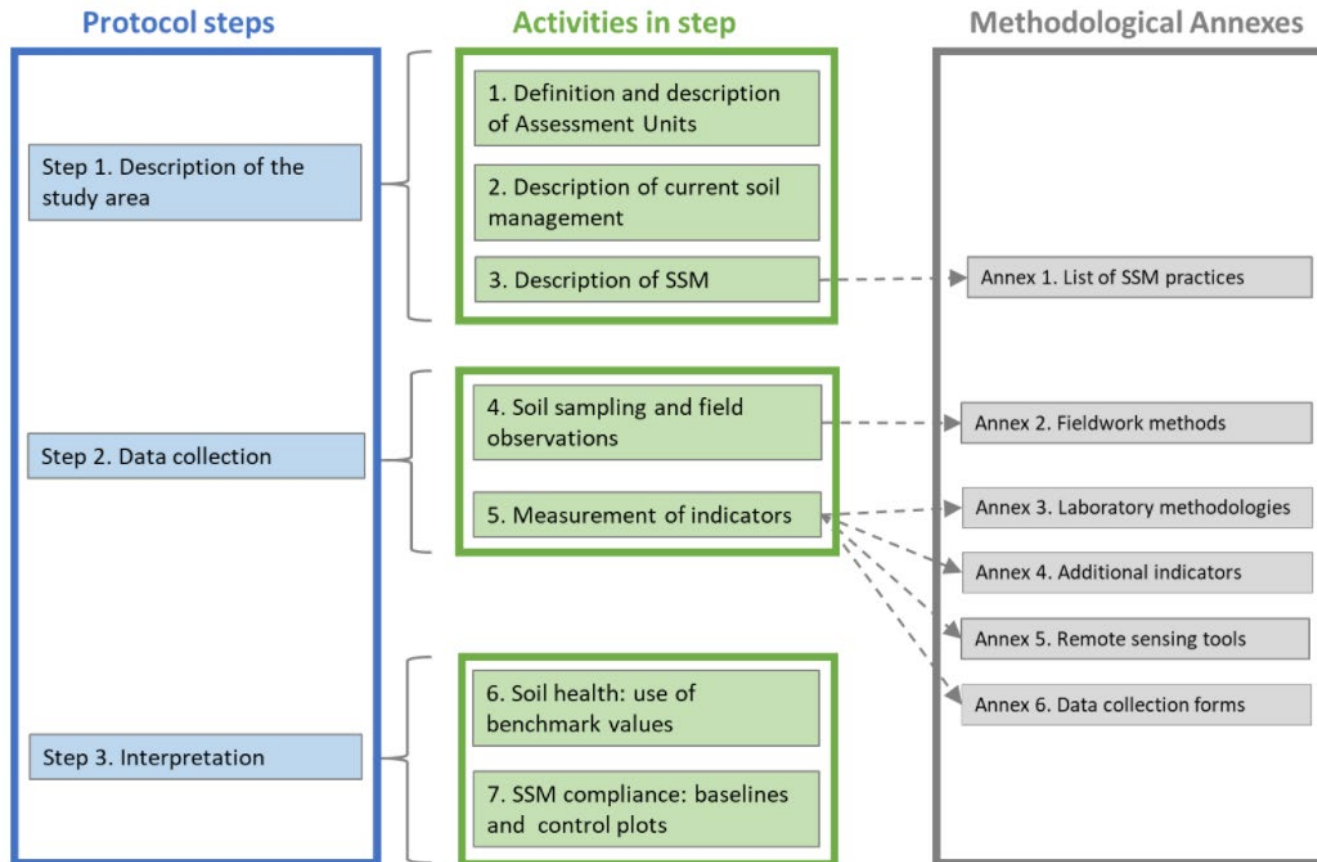
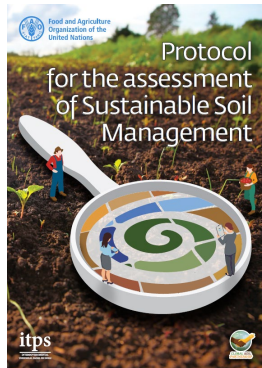
Methodological Annexes



SSM Protocol – User’s manual and Annexes



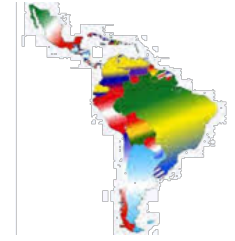
SSM Protocol – User’s manual and Annexes



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Regional project in the LAC region: Validation of the SSM Protocol



Regional project: Support to regional cooperation for climate management of agricultural ecosystems with emphasis on water and soil

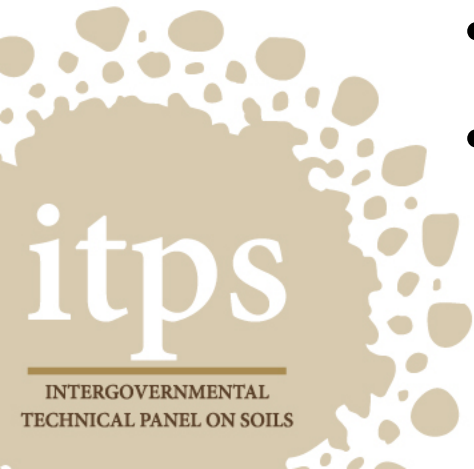
Argentina, Colombia, Costa Rica, Ecuador, Nicaragua, Paraguay, República Dominicana, Uruguay, Venezuela



NOV-2020

- SSM practices database
- Technical capacity building
- Pilots for the **validation of the SSM protocol Users' manual**
- SSM practices scaling up strategy

OCT-2022



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Regional survey on SSM practices

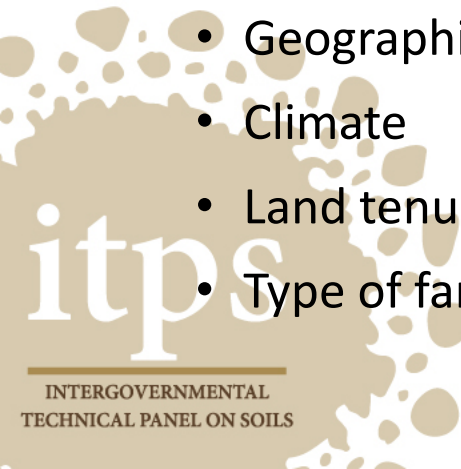
21 countries

1350 answers

365 main practices

- Email Address. Last Name First Name
- Institution, Country
- Project details (Public, private, technical support. .)
- Applied Practice. Select several if applicable.
- Land use, Brief description of the practice
- Soil type (World Reference Base, Soil Taxonomy)
- Geographical location
- Climate
- Land tenure and land rights
- Type of farmer
- Role of women
- Number of farmers applying the practice
- Total area where the practice is applied (ha)
- Approximate cost (US\$) installing / maintenance cost
- Implementation time (months, years)
- Purpose of the practice
- Soil indicators monitored to quantify the impact of the practice
- Publication (internet link)

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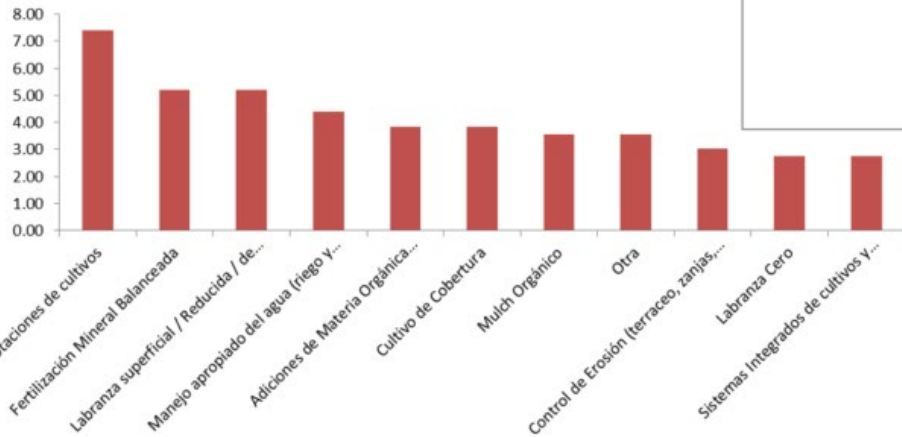


Regional survey on SSM practices

Resultados de la Encuesta

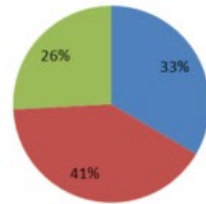
Total de prácticas principales = 365

% del total de Prácticas Principales



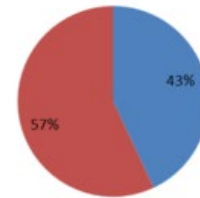
Criterios de Selección de la Práctica

Área de influencia Impacto Número de productores

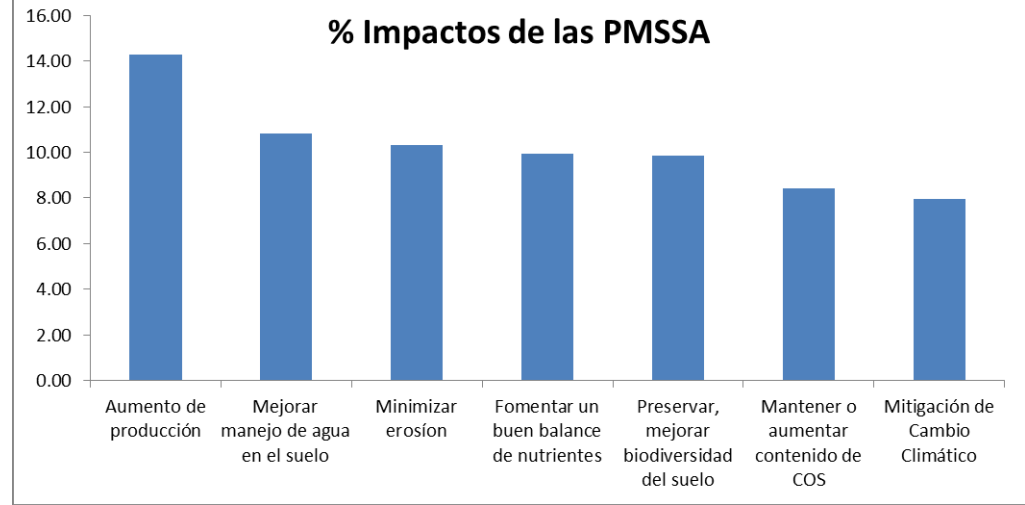


Costo de la Práctica

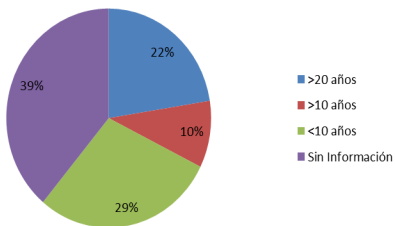
Con Costo Sin Costo



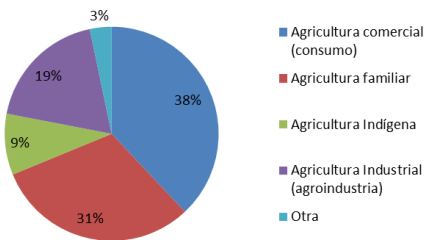
% Impactos de las PMSSA



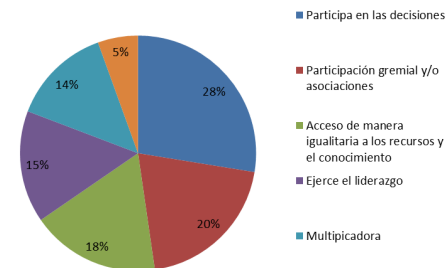
Años de aplicación de la PMSSA



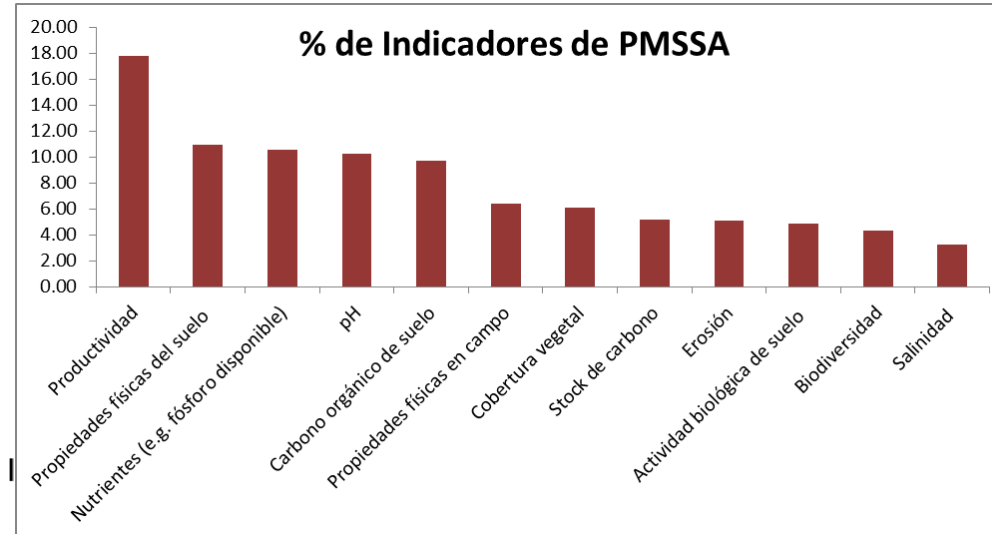
Tipo de Agricultor



Rol de la Mujer



% de Indicadores de PMSSA



Regional survey on SSM practices

- Applied Practice → Crop rotation; IFM; Reduced tillage; water mangt.
- Type of farmer → Commercial system; family farming; agroindustry
- Role of women → Decision making; association member
- Implementation time → < 10 years ; > 20 years
- Soil indicators monitored → Productivity; nutrients; physical properties; pH; SOC
- Purpose of the practice → Productivity; water optimization; erosion control..

=> Selection of pilot sites

SSM database / app

RECSOIL carbon path

- Land use history
- Fertilizers use detail
- SOC detailed measurements
- Annual energy use, transports
- Livestock specific data

Common information

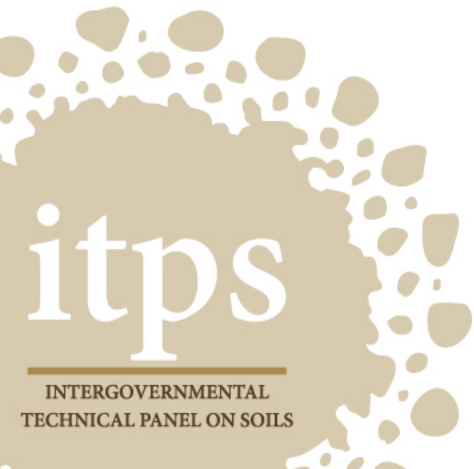
- Project ID, contact data
- Field general data
- Climate and soil data
- General management data (Land use, practices, fertilizers use, water management...)

SSM practices decision support

- Costs of installation / maintenance
- Type of farmer
- Role of woman
- Purpose of the practice

RECSOIL green path and SSM Protocol

- SSM indicators (Productivity, SOC, BD, respiration)
- Visual soil assessment
- Additional indicators
- Remote sensing methods



SSM Protocol – User’s manual and Annexes

Main steps to complete:

- ITPS and GSP Secretariat review April 2022
- SSM Group review May 2022
- App and RECSOIL pilots developed June 2022
- Results of the regional Project July 2022
- Published document October 2022





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