

Extension methods include practical and theoretical elements: farmers attending a field day organised by SMI.

## Soil management initiative (

An independent organisation that promotes the adoption of appropriate soil management practices, especially conservation agriculture, within England.

Aims / objectives: The zero tillage systems promoted in the UK during the 1970s were radical. Pioneering farmers moved from ploughing to zero tillage using special direct drilling machines and non-selective contact herbicides. However, they encountered serious problems with slugs, persistent grass weeds and straw, and zero tillage was largely abandoned. Pressures to reduce crop establishment costs then led to the intermediate method of ???conservation agriculture??? (CA). The Soil Management Initiative (SMI) has been central to the development and promotion of CA. SMI is an independent non-profit organisation that was established by a small, committed group in 1999. Its aim is to promote the adoption of cultivation systems which improve soil quality, minimise soil erosion and water pollution, and simultaneously maintain or enhance farm economic returns. SMI brings together organisations with varied expertise and technical abilities, and provides both research results and advice to the large numbers of farmers who are progressively adopting CA. Furthermore, SMI was a founder member of the European Conservation Agriculture Federation (ECAF), under which there are 14 national organisations. Competence within SMI is drawn from research institutes, educational establishments, farmers and landowners, machinery manufacturers, crop protection companies, charitable trusts, and from independent agronomists and advisers.

Methods: The EU Life fund provided an initial three-year allocation to support SMI. This ended in 2002. SMI now raises finance from the UK and EU governments, commercial sponsorship (international agrochemical and machinery companies) and fees paid by farmers. In the current climate of privatisation of advisory services, there is no targeted governmental advisory body to carry out such a function. DEFRA (The UK Government????s Department for Environment, Food and Rural Affairs) does however provide some support to SMI with both funds and expertise, and is an associate member. Amongst SMI???s methods for spreading the message of improved soil management are field days - where farmers pay to attend- an interactive web-based help-line on ???lo-till??? and farmers??? magazines. SMI also undertakes extension roadshows???, visiting specific farms for question and answer sessions. A formal session with presentations from experts precedes a practical outdoor demonstration. SMI gains knowledge and practical experience from the ???joint venture??? at Loddington (see associated technology).



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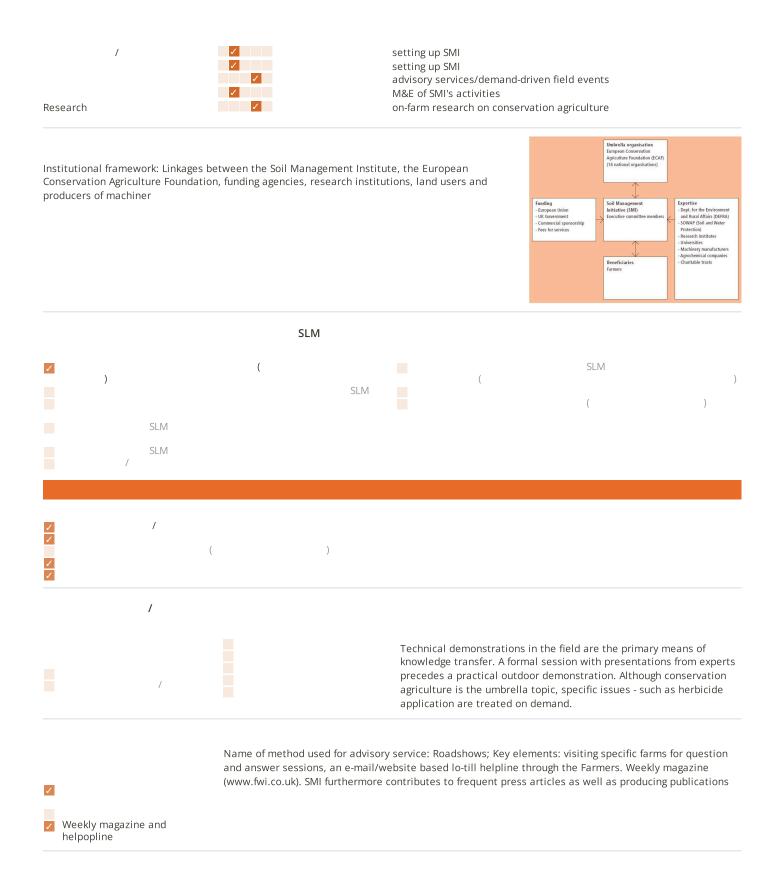
Classroom training sessions on conservation agriculture with presentations from experts.

- improve technology transfer through extension to farmers
- promote agricultural and environmental policies to support sustainable soil management
- improve information exchange in and amongst the research, policy and practitioner communities and private companies (machinery and agrochemical etc)
- research, develop, evaluate and promote soil management systems to improve crop production and protection of the environment

The SLM Approach addressed the following problems:

- -Attempts to apply conservation agriculture by arable farmers in the 1980s and 90s were not matched by an understanding of the whole system. There was a thirst for more knowledge.
- -Privatisation of government advisory services has left a gap to be filled in this case an advisory body in sustainable soil management.
- : SMI has needed to operate within a tight budget, and this was reduced further in 2002 when the 3-year allocation from the EU Life fund ended. Treatment through the SLM Approach: The remedy has been to depend more on support from private companies (agrochemical and machinery) and payment by farmers for advice/attendance at field days.
- ( ): The existing land ownership, land use rights / water rights moderately hindered the approach implementation Ownership and the attitude of the owner towards CA can affect uptake significantly. For example, some landlords do not like tenants to practice conservation agriculture because ???it looks messy??? with trash lying on the surface rather than neatly ploughed fields.
- SLM : Farmers lacked adequate knowledge regarding use of new CA implements, and emerging weed and pest control methods. Treatment through the SLM Approach: SMI provides demand-driven technical support services.

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/		Differences between the participation of men and women: None in principle, though de facto most farmers are male, and they constitute the majority at field days.
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(	Govt. agencies	
contractors, environmentalists/researchers		



bio-physical aspects were regular monitored by project staff through measurements technical aspects were regular monitored by project staff through measurements socio-cultural aspects were ad hoc monitored by project staff through observations economic / production aspects were regular monitored by project staff through measurements area treated aspects were ad hoc monitored by project staff through measurements management of Approach aspects were ad hoc monitored by project staff through observations There were None changes in the Approach as a result of monitoring and evaluation: SMI is constantly refining its advice on the basis of results monitored from the field.



• Has successfully stimulated conservation agriculture, which should in turn ultimately lead to environmentally sound and sustainable land management in England (How to sustain/ enhance this strength: Continue operations for as long as possible)

- SMI has acted effectively as a channel for making results from research, and a wide body of experience, readily available to farmers (How to sustain/ enhance this strength: Continue to focus on farmers as the main target group and link them with research and private companies.)
- SMI has managed to combine the efforts and expertise of a wide range of actors towards a common goal: to provide a unique advisory service in conservation agriculture (How to sustain/ enhance this strength: Continue to serve as a centre of excellence.)
- Improvements in soil management techniques have been documented in an accessible way (How to sustain/ enhance this strength: Continue to publish simply and clearly as new messages
- Ad hoc advice available via a web-based helpline (How to sustain/ enhance this strength: Continue.)

• SMI has an on-going problem with adequacy of funding Through top-class services, continue to attract funds and voluntary contributions from a wide range of actors.

**Editors** 

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2018

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https://qcat.wocat.net/km/wocat/approaches/view/approaches\_2620/

Technologies: Conservation agriculture https://qcat.wocat.net/km/wocat/technologies/view/technologies\_987/

Technologies: https://qcat.wocat.net/km/wocat/technologies/view/technologies 3701/ Technologies: https://qcat.wocat.net/km/wocat/technologies/view/technologies\_3701/

Technologies: Conservation agriculture https://qcat.wocat.net/km/wocat/technologies/view/technologies\_987/

- UK Soil Management Initiative -
- Book project: where the land is greener Case Studies and Analysis of Soil and Water Conservation Initiatives Worldwide (where the land is greener)
- Soil Management Initiative/Department for Environment, Food and Rural Affairs (DEFRA) (undated) A guide to managing cropManagement Initiative (undated) Improved soil management for agronomic and environmentalSoil Management Initiative/V??derstad (undated) Target on establishment: innovation for the future of farming.: (www.smi.org.uk)SMI, UKSMI, UK
- Management Initiative (undated) Improved soil management for agronomic and environmental: SMI, UK
- Soil Management Initiative/V??derstad (undated) Target on establishment: innovation for the future of farming.: SMI, UK

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