

Improved land management strategies for sustainable food production: examples from the

EU-funded DESIRE project

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What are Sustainable Land Management Strategies?

Interventions at local-regional scale aiming at:

- Increasing productivity
- Improving livelihoods
- Improving ecosystems

Soil ecosystem services







Pictures: www.wocat.net













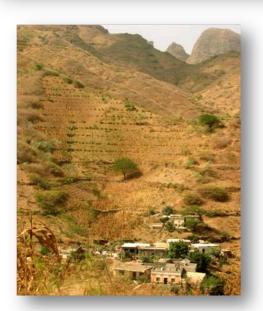


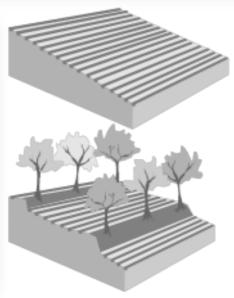
breedsymposium





World Overview of Conservation Approaches and Technologies





SLM technology



SLM approach















Why research in SLM strategies?

- Within reach of smallholder farmers
- Still need for scientific proof of performance of SLM strategies



















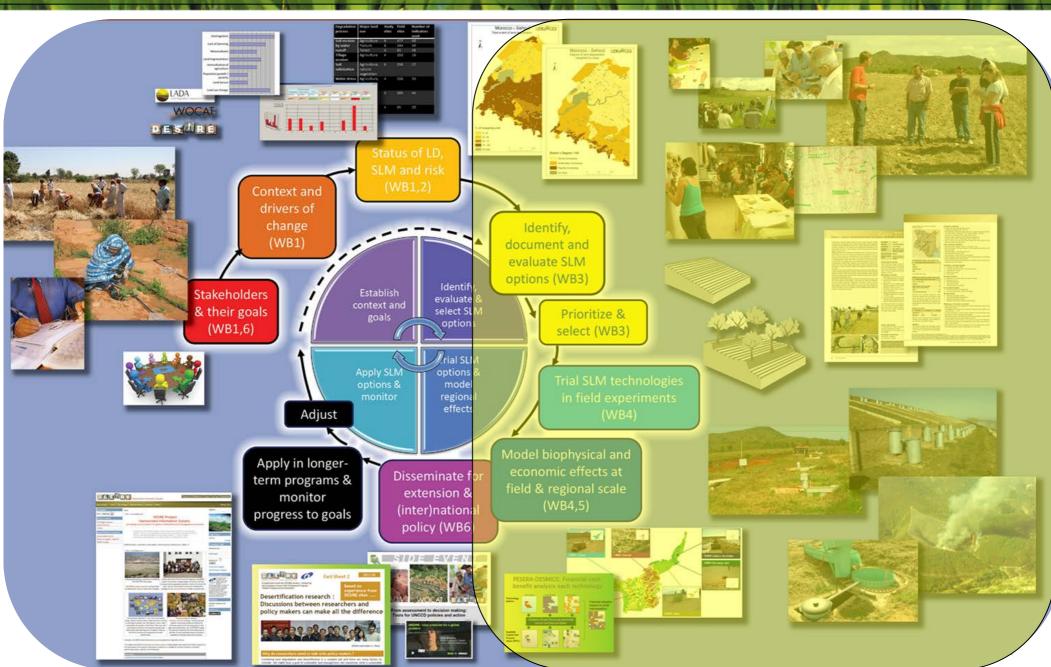








Desertification Mitigation and Remediation of Land – A Global Approach for Local Solutions



16 rural dryland areas with different manifestations of desertification







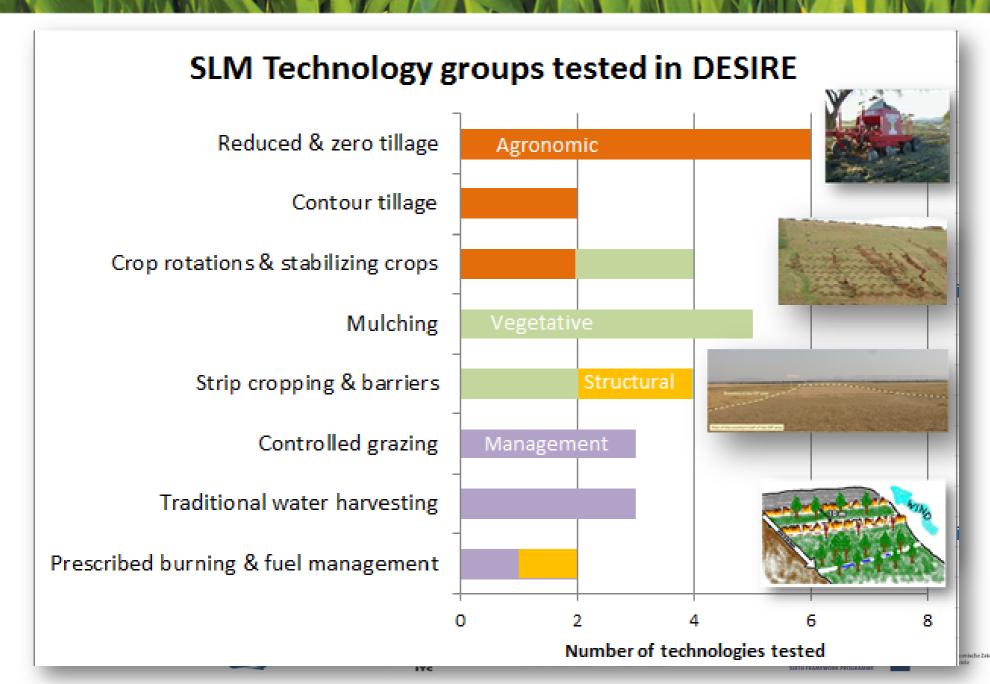




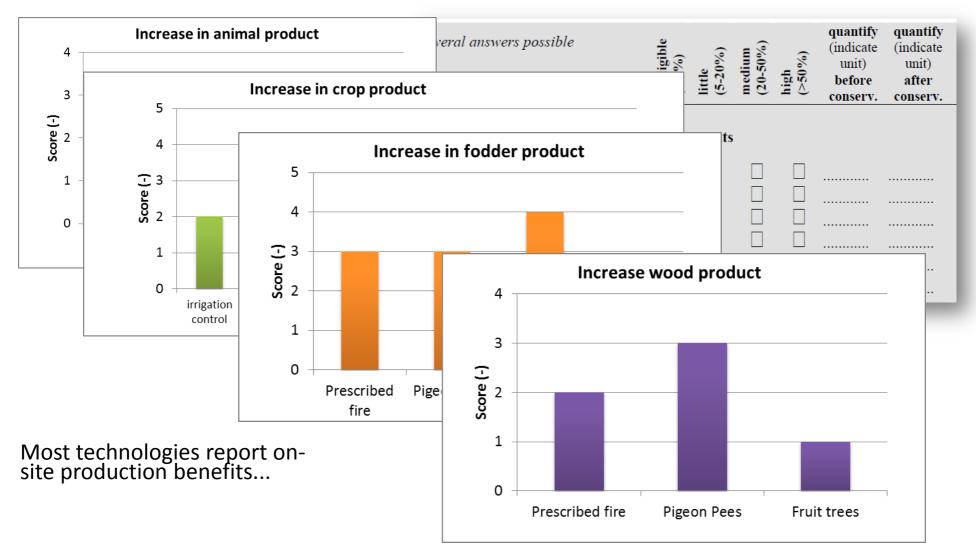








Assessment of improved food-feed-biomass production









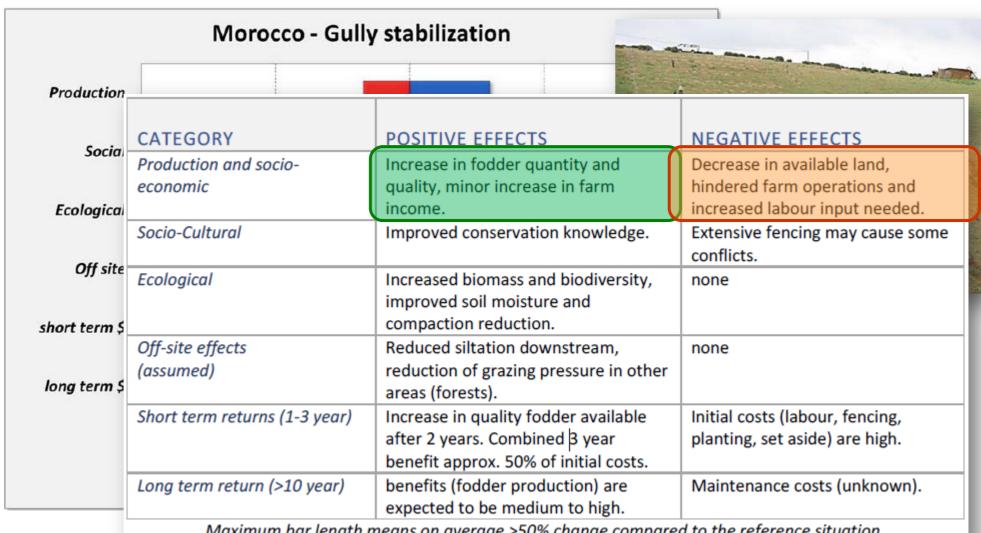








... but also socio-cultural and ecological benefits and disadvantages



Maximum bar length means on average >50% change compared to the reference situation













Farmers' perceptions



"The results of the experiment are positively regarded.

However the farmers point out that a large scale fencing and planting of the degraded lands in the region is impossible for them, without financial compensation for time and subsidized equipment and materials.

An initial set aside period of 2-3 years would mean a substantial (temporary) loss of grazing land."

"The farmers are spectators at the moment, until the long term effects are clearer and more convincing. The general knowledge on land degradation is improving however, because of these experiments."















Conclusions

- Success of technologies is consistently site specific
- Immediate improvement of production and socio-economic benefits required for adoption
- Implementation of SLM technologies appeared successful in sites where political changes were already supporting the implementation of these technologies



Picture: Hanspeter Liniger















For more information, visit: www.desire-his.eu www.desire-project.eu



Thank you for your attention!













