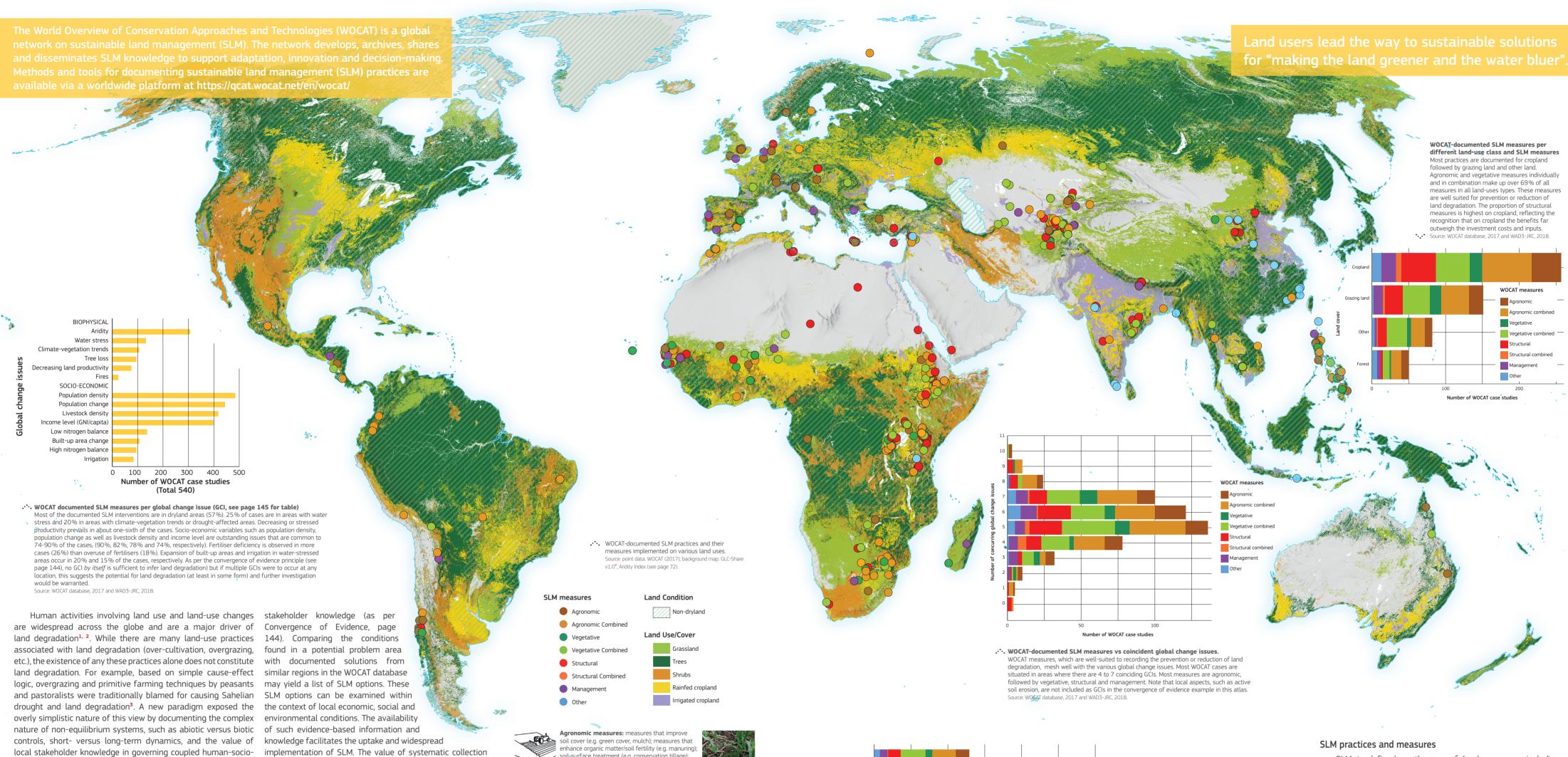
Sustainable Land Management: Current State

A growing inventory of adapted land-use practices



policy making at various levels to promote wider implementation and environmental contexts. and scaling up of identified good practices, thereby contributing to global efforts to prevent, halt and reverse land degradation. Potential locations of maladapted land use practices are identified by mapping the co-occurrence of key issues related to land degradation and framing them within local contexts and

sustainable land management (SLM).

economic systems^{3, 4} (see page 64 on smallholders). This led and cataloging of geographically based SLM knowledge is to a more integrated approach in formulating the social and gaining broad appreciation from research agencies, institutions institutional dimensions of land management, including the and the global community. SLM technologies and approaches are development and implementation of the adaptive practices of one static but are continuously adapted in response to changing environmental conditions and human needs. However, this The World Overview of Conservation Approaches and requires long-term monitoring of instances of implementation, Technologies (WOCAT) is a network that develops, archives, adaptation, and impact of SLM. These efforts are supported shares and disseminates SLM knowledge to improve human and encouraged by significant advancements in information livelihoods and the environment⁶. As part of its mission, WOCAT technology (cloud computing, the Internet of Things, social strives to support evidence-based decision-making and influence networking, etc.), which supports a wide array of social, economic

il=surface treatment (e.g. conservation tillage); subsurface treatment (e.g. deep ripping).

Vegetative measures: plantation/reseeding of tree and shrub species (e.g. live fences; tree rows), grasses and perennial herbaceous plants (e.g.



+ combinations

Management measures: change of land use type (e.g. area enclosure); change of management ntensity level; (e.g. from grazing to cut-and-carry) major change in timing of activities; control/chang

> . . . Categories of WOCAT measures inventoried in the field SLM technologies are made up of agronomic, vegetation combination of these. Source: Liniger and Crichley, WOCAT, 20076

Vegetative combined Structural **WOCAT-documented measures per land** productivity dynamics (see page 114) 80% of the interventions are in areas that now show stable 'not stressed' and even 'improving' land productivity. This might be proof of increasing efforts in investing in SLM and a positive impact of investments made in good land management. Only 5% of the SLM measures reported are in areas with declining land productivity and suggest that efforts are in the initial phase or not yet wide-spread. Number of WOCAT case studies

Source: WOCAT database, 2017 and WAD3-JRC, 2018.

SLM is defined as the use of land resources, including soils, water, animals and plants, for the production of goods to meet changing human needs, while ensuring the long-term productive potential of the resources and the maintenance of their environmental functions⁵

Sustainable land-management practice consists of an SLM technology and SLM approach.

An SLM technology is a physical practice on the land that controls land degradation, enhances productivity, and/or other ecosystem services. A technology consists of one or several measures, such as agronomic, vegetative,

structural, and management measures (WOCAT 2016). An SLM approach includes the ways and means of support that help introduce, implement, adapt and apply SLM technologies on the ground to foster an enabling environment.



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