Status, Needs and Priorities for Sustainable Soil Management in Mali

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Outline

• Major soils of Mali
• Soil constraints
• Management needs
• Priority of actions
Major Cropping Systems

- Irrigated rice systems: ‘structured’ and ‘rising’ (VCR = 12)
- Cotton based cropping systems: ‘structured’ but ‘risky’ (VCR = 3)
- Permanent millet: ‘unstructured’ and ‘risky’ (VCR = 0.8)
Soil Constraints

• Naturally poor and fragile
• Soil mining
• Salinity and high water table for irrigated paddy soils
• Corrected P deficiency but induced micronutrient deficiencies in paddy soils
Soil Constraints (Continued)

• Rising P contents, but soil acidity under cotton cropping

• Fertilizer use at 11 kg

• Impacts of climate change...
Soil Constraints (Continued)

• Where are the Carbon Credits?
Management Needs

- Geo-referenced soil database
- Managing soils in contoured-ridges (ACN)
Management Needs (Continued)

• Soil Fertility Initiative (FERTIMAP)

• Sustainable Land Management Action Plan
Management Needs (Continued)

• NAPA

• Ag policy advocacy
Priority for Actions

- Managing soils in contoured-ridges (ACN)
Priority for Actions

- Soil Fertility Initiative (FERTIMAP)
- Ag Policy Hub and Nodes
Thanks for your attention!