

Promoting carbon sequestration in soils: *the 4 p 1000 initiative*

, <u>C. Chenu</u>, M. Garcia Cardenas, F. Amiraslani, M. Kaonga, L. Koutika, J. Ladha, B. Madari, C. Rumpel, Y. Shirato, P. Smith, B. Soudi, JF. Soussana, D. Whitehead, L. Wollenberg



A political initiative at the COP 21

- General aim
 - « Increase organic matter and promote soil C sequestration, through the application of appropriate farming and forestry practices in order to contribute to food security, climate change mitigation and adaptation to climate change »







Why a research program?

- Providing evidence-based options for countries, stakeholders and the private sector and supporting the multi-partner initiative
- Help answer high level policy questions





Four main pilars

- Estimating the potential of soil carbon sequestration and associated benefits
- Developing practices adapted to specific conditions (soil, climate, socio-economy, institutional..)
- Define and strengthen the enabling environment
- Monitoring, reporting and verification of soil carbon



• Formative assessment : provide advice for the improvement of projects

Projects = Specific actions

- under defined temporal and spatial scales and ecosystems (e.g. arable, rangeland, forests..);
- Targeting retention or increase in soil carbon;
- related to changes in land management and/or land use options;

with expected benefits and possible trade-offs for local communities.





CANA A



Four "sequential" steps for SOC project assessment

	Step 1: Safeguard Criteria	Step 2: Direct Reference Criteria	Step 3: Indirect Reference Criteria	Step 4: Crosscutting Criteria
Contents	Does not compromise • human rights • land rights • poverty alleviation	 SOC stocks and land degradation neutrality (SDG 15) Climate change adaptation Climate change mitigation (SDG 13) Food security (SDG 2) 	 Welfare & well-being (SDG 12) Biodiversity & ecosystem services (SDG 15) Water and nutrients cycles (SDG 6) 	 Training and capacity building Participatory and socially inclusive approaches
Require- ments	Need to meet them all	Soil C + does not compromise others		
		Narrative advice aime The quality of the pro and during imple	oject before	