

Urgent Actions to Include Biochar in the "Post 2012" Climate Change Market Mechanisms

2nd Annual IBI Meeting September 8-10, Newcastle, UK



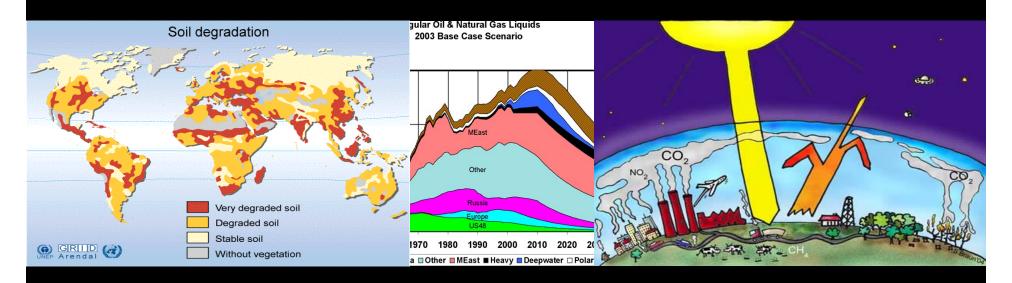
Goodspeed Kopolo UNCCD







Global problems



soil degradation

peak oil "Hubbert's Peak"

Climate change

in 2007

FAO's global **food price** index rose **40%**

to the highest level on record

World fertilizer prices surge 200%

International Center for Soil Fertility and Agricultural Development, IFDC

Dedicating land to biofuels increases carbon emissions

Corn-based ethanol doubles greenhouse gas emissions over 30 years

Searchinger et al. 2008, Science

UNCCD History

- One of the 3 Rio Conventions (1992)
 - were first thought to deal with climate change, biodiverstiy and desertification as separate issues
- However it turned out there are merely different facets of the same problem
 - Sustainable use of a finite recource
 - a) Climate Change (UNFCCC)
 - b) Biodiversity (UNCBD)
 - c) Soil

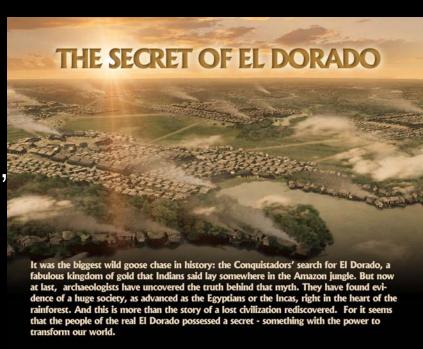
UNCCD mission

- Sustainable Land management particularly in dry lands
- Increase agricultural productivity (World Food Summit Target)
- Help rural societies, find alternative livelihoods in the face of the vagaries of nature

UN Millennium Development Goals

UNCCD discovery of the biochar solution

- BBC Terra Preta documentary
- Googled "Terra Preta"
- Found pioneers like Wim Sombroek Wolfgang Zech, Bruno Glaser, Johannes Lehmann and Christoph Steiner





Produced and directed by DAVID SINGTON
Associate Producer SARAH KINSELLA
Photography NIGEL MEAKIN SOUND JOHN PRITCHARE
Film Editor HORACIO QUEIRO
Graphics THE MONKEY EXPERIMENT
Horizon Executive Producer MATTHEW BARRETT

THURSDAY 19TH DECEMBER 2002 9pm BBC2

HORIZON

Hardly any sink received so much support from the scientific community

Biochar implementation

- Would address the UN Millenium Goals
- Why is Biochar Carbon Sequestration not being implemented?
- Why can Biochar Carbon be a CDM if it is burned but not if it is used as a soil amendment?

Prospects

This would result in large financial flows for both mitigation and adaptation to developing countries where use of this technique would result in the highest returns, due to the high losses of SOC.

In order trade biochar carbon as a CDM:

This option needs to be introduced by Parties through the UNFCCC Subsidiary Body for Scientific and Technological Advice (SBSTA).

Urgent actions

According to the IPCC biochar management would be a valid C sink

- 1.Inclusion of biochar in the CDM mechanism along with afforestation and reforestation (A/R).
- 2. Take into account the fact that biochar carbon sequestration is more permanent than than the potentially reversible (A/R).

Therefore we suggest:

- Revision of the additionality rules
- Increase the level of CERs that an annex I Party can use towards meeting the Kyoto Protocol targets



Voluntary Carbon Trade

In the meantime the voluntary carbon market (VERs) could provide financial support for biochar carbon sequestration

The voluntary market values social impacts, impacts on biodiversity and other environmental benefits

- Biochar Carbon Sequestration might profit from these additional values

Thank You