ISSUES RELATED TO LAND USE

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Forest area change / Central Sudan

- Total area of Sudan 250 Mha
- Total area of forest 100 Mha (40%)
- Up to 1970 50% of the area is desert + semidesert
- From 1970 → 2003 forest area reduced to 65 Mha (26%)

Issues related to LU / Central Sudan

- Land allocation system until 1970 was participatory (tribal leaders & Government)
- By 1970 The Government issued the *Unregistered* Land act 1970
- Since 1970 forest land is declining:

Rate of deforestation 0.3 - 0.5% = 0.35 - 0.45 Mha

- Agricultural land is increasing at the same rate
- Grain yield increased although productivity/unit area declined.



	Forest cover (ha)	% of study area
	32 000 28000 loss / 4000 remain	22.4
	26 000 4000 / + 22000	18.1
5	6000	4.3
tal area o	f study 1	41 000 1

Lessons learned

• There is a possibility to increase reforestation by understanding the dynamic changes

To conclude:

- Policy change, and land allocation system
- Integrated land use
- Co-ordination between sectors
- Considering Community role
- Vertical increase in crop production is necessary to reduce deforestation

 The study on dynamic changes (using remote sensing) provide good opportunities for more studies on carbon stock issues, if high resolution technology is used.