Presentation given at the

WCS Workshop on Land Change Modeling for REDD

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Wildlife Conservation Society - Bronx Zoo Bronx, New York, USA

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Clark Labs and the Wildlife Conservation Society



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Ituri Landscape, DR Congo: Report from the field

Joel Masselink

Bronx, NY 27 October 2010









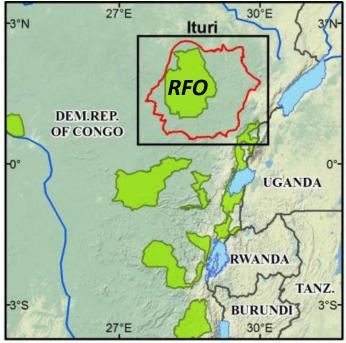


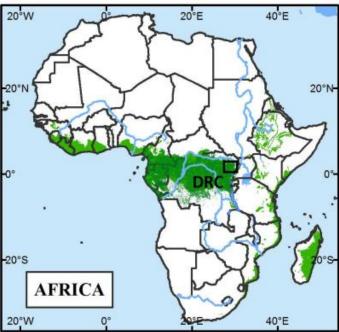
Presentation Layout



- Ituri Landscape
 - Natural resources and physical characteristics
 - Progress in landscape planning
- Conservation Issues
 - Pressures on flora & fauna
 - Immigration & resource access
 - Evaluation of deforestation: REDD+

- Future for WCS-DRC
 - REDD projects for forest conservation





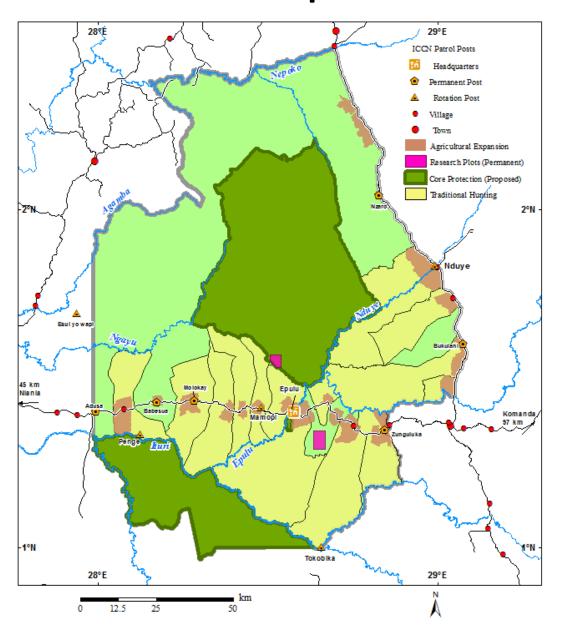
Ituri Landscape



- \sim 40,000 km 2 (size of Holland or Switzerland)
- 300,000 people
 - including 30,000 Mbuti pygmies
- Natural resources
 - Timber
 - Minerals
 - Ecosystem services
- Since 1985, WCS active in Ituri
- Work expanded to landscape in 2003
 - Data collection
 - Socioeconomic
 - Biological
 - Land use planning with diverse stakeholders

Okapi Wildlife Reserve





- Size of Connecticut (14,000 km²)
- 20,000 people <15 km radius
- Best protected park in DRC
 - Only 90 park guards

Long-term data available

- Demographic
- Phenological
- Climatological
- Biological
- Forest dynamics

Okapi Wildlife Reserve

WILDLIFE CONSERVATION SOCIETY



- 2000-3000
- DRC's largest pop of forest elephants
 - 3000-4000
- Largest pop of eastern chimps
 - **-** 6000-7000
- 13 sp of diurnal primates
 - most of any African protected area



- Inselberg micro-environments
- High biomass monodominant forest
 - Gilbertodendrion dewevrei
- Edos clearings maintained by large mammals

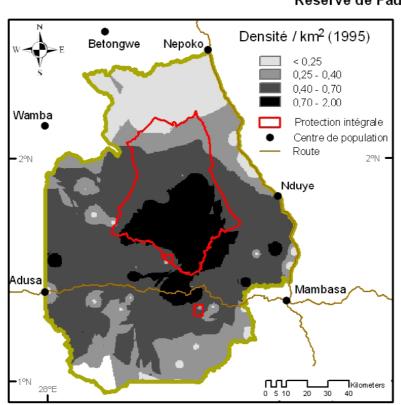


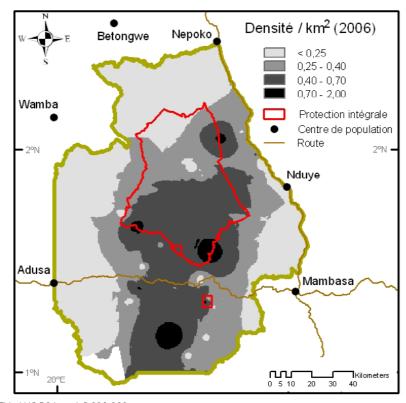
Impact of war on Fauna



	Pop – 1995	Pop - 2006	# lost	% decline
Okapis	4428	2507	2000	-43%
Elephants	6803	3539	3260	-48%

Réserve de Faune à Okapis - Eléphant





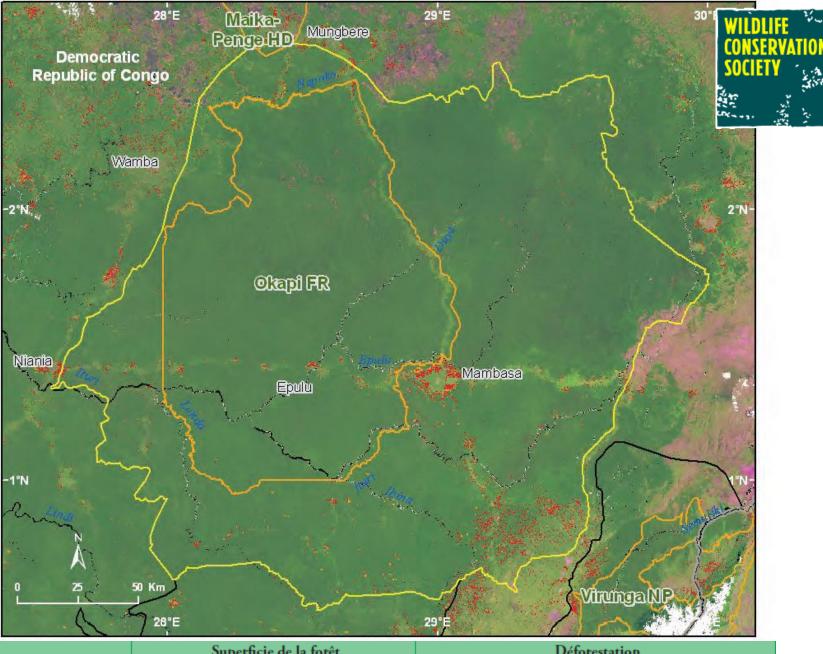
Post-war impacts



- War kept forest mostly intact
 - Illegal poaching, mining & logging
- Peace-time in Ituri, DRC
 - improved national road thru landscape
 - illegal/artisanal logging
 - commercialization of bushmeat hunting
 - industrial mining

Immigration





	Superficie de la forêt			Déforestation			
Superficie du paysage	1990	2000	2005	1990-2000	1990-2000	2000-2005	2000-2005
(km²)	(km²)	(km²)	(km²)	(km ²)	(%)	(km2)	(%)
40.862	39.663	39.449	39.310	214	0,54	139	0,35

Ituri Landscape Activities



- Reinforcement of the Okapi Reserve management
 - Zoning & directives for NR use
 - Seeds / tools & promoting friendlier farm techniques
- Creation of CBNRMs
 - Development of stakeholder groups
 - Biological & human impact surveys
 - Assessment of natural resource use
 - Microzoning
- Livelihoods activities



Agrizones



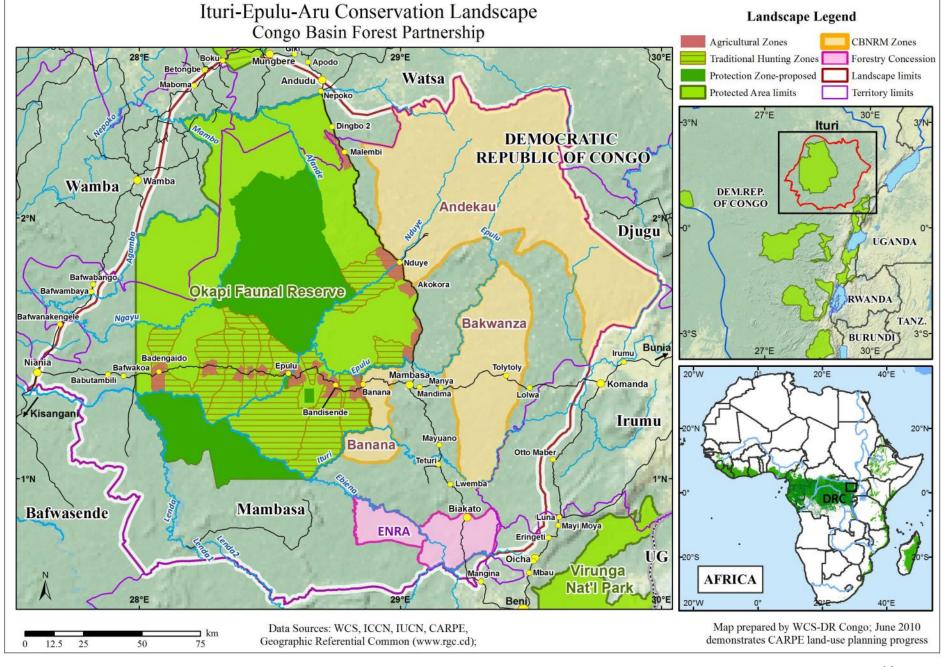
- Follow a participatory process
- Define limits for agricultural expansion
- Propose green zones where forest is intact
- Community-managed
- Should be regulated by park mgmt.

Hunting Zones

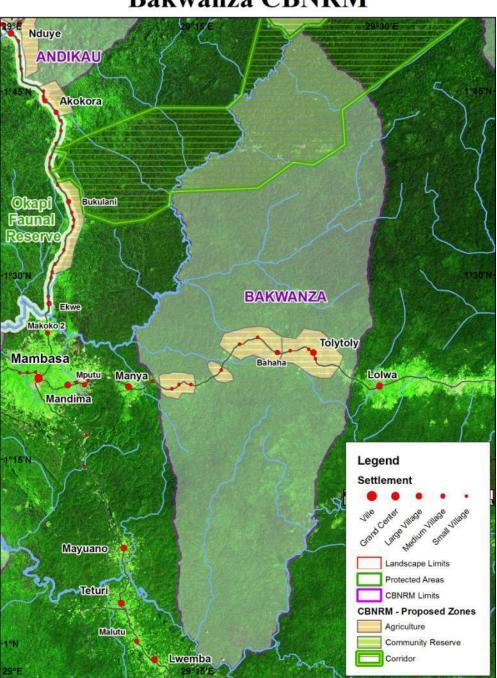




- Traditional hunting territories
- Mapped for recognition by local communities
- Community-managed
- Provide structure for regulation by park management



Bakwanza CBNRM



CBNRM landuse planning

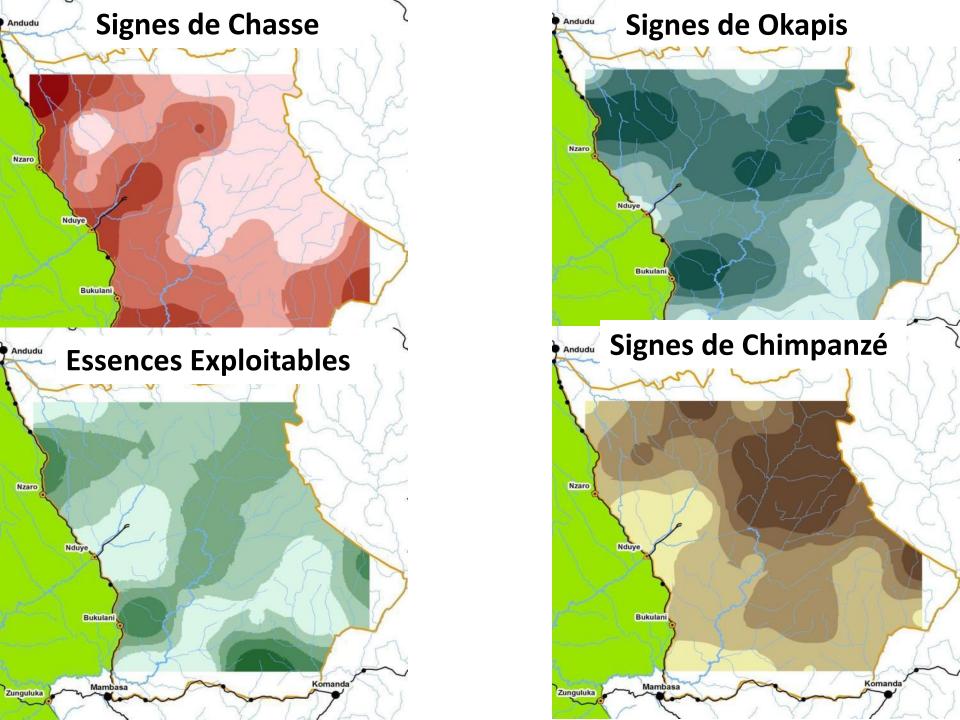


Current progress

- CBNRMs recognized & mapped
- Mgmt committees formed
- Biological & human impact surveys conducted

Activities to pursue

- Establish desired conditions
- Plan landuse & associated directives
- Adopt strategy of participative and adaptive mgmt.



Natural resource use



- Artisanal logging
 - More volume than commercial logging
 - Mostly illegal → proposed legislation to improve benefits to loggers, gov't & communities



- Studied dynamics & controls
 - Propose alternative fuel sources



Needing study

- Bushmeat trade
- Impacts of mining

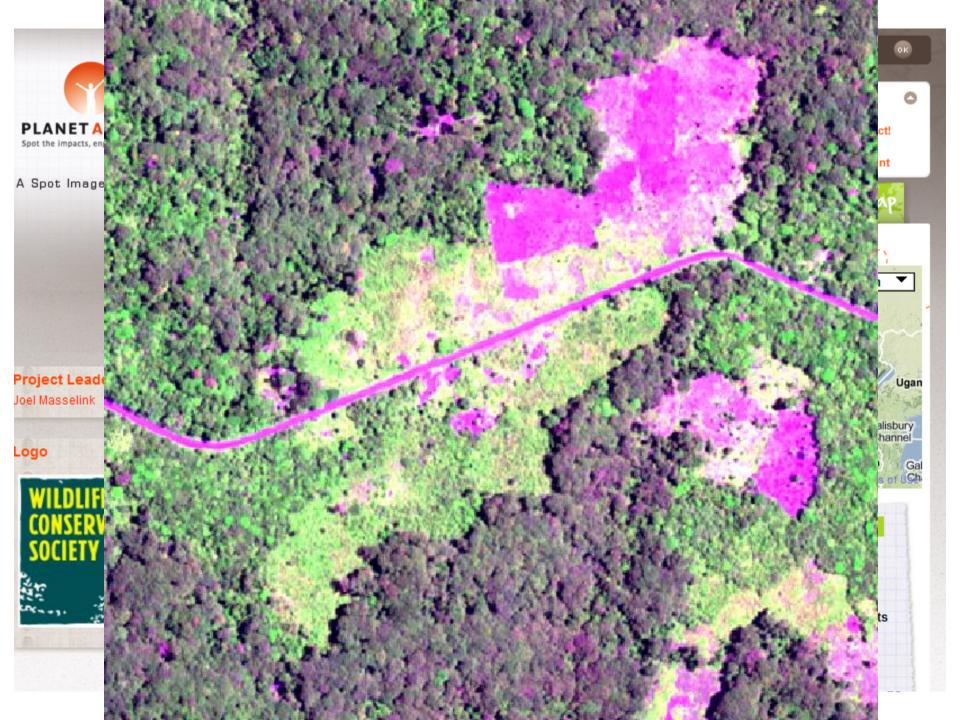
"Livelihoods"

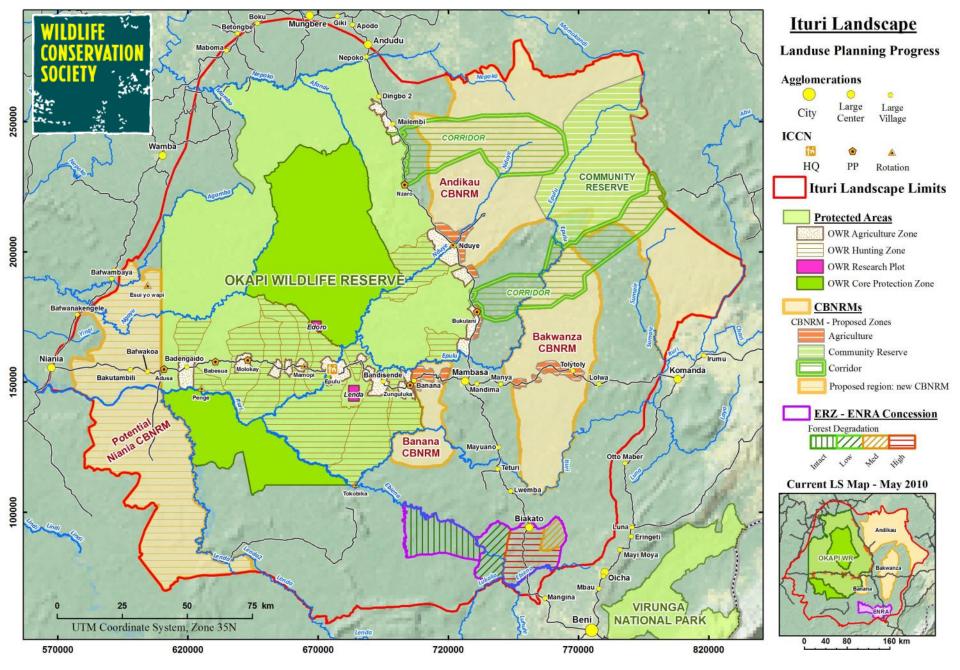
- WILDLIFE CONSERVATION SOCIETY
- USAID & World Bank funding for "alternative" and "sustainable" livelihood activities
 - Community associations
 - Small grants & technical training
 - Women
 - Promotion of literacy / empowerment
 - Farmers
 - Distribution of improved seeds
 - Training in improved, low-impact techniques
 - Promotion of shade cacao (outside Okapi Res.)

Ituri & REDD+



- WCS's long-term field presence recognized
- WCS selected to manage national pilot project in Mambasa (CBFF)
- Mambasa (Ituri LS) is gov't pilot region for landuse planning
- WCS provided forest inventory training to National forestry ministry







CARPE

Merci Beaucoup Asante Sana

Questions?









