



UN-REDD PROGRAMME

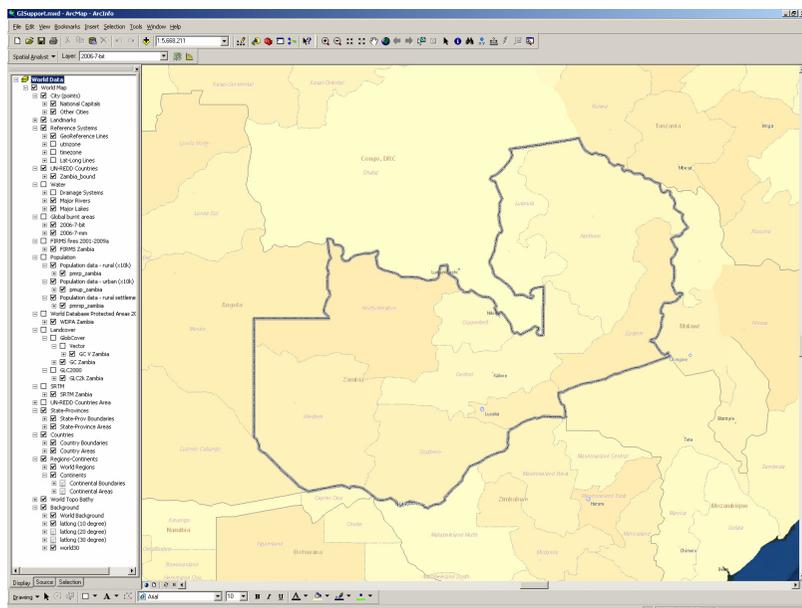
GIS data



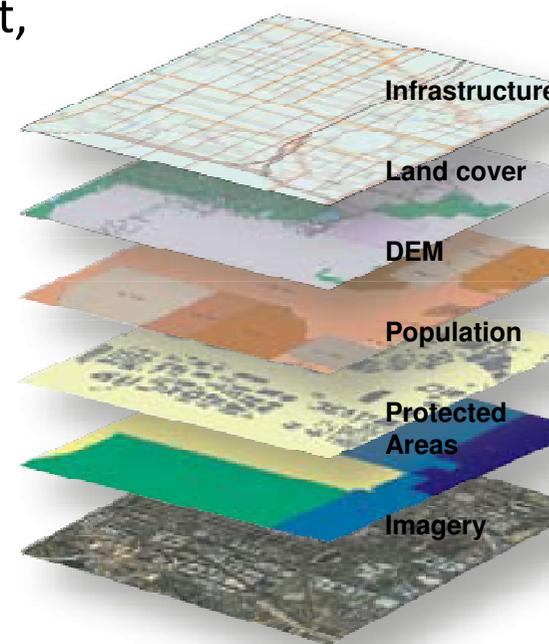


GIS Data

- For this meeting, we have prepared a collection of GIS data sets and Landsat imagery, subset at country extent, for each of the 9+1 UN-REDD pilot countries.
- Data is available in standard GIS formats.



- For ESRI ArcGis 9.3 users, an .mxd project is also included for data display and analysis.

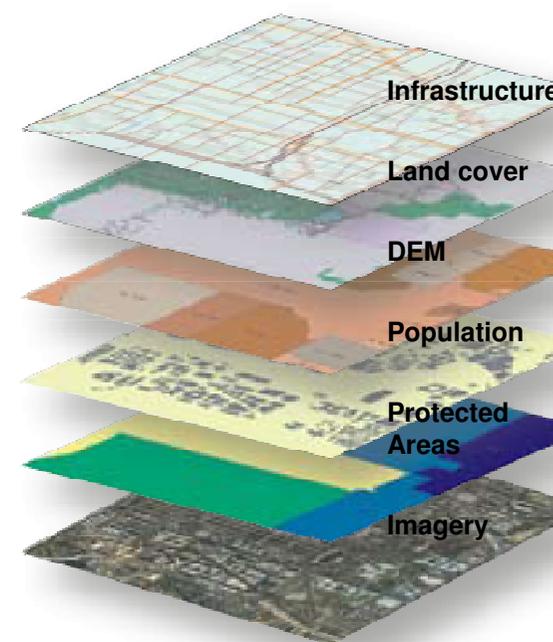


UN-REDD
PROGRAMME



GIS Integration and Data

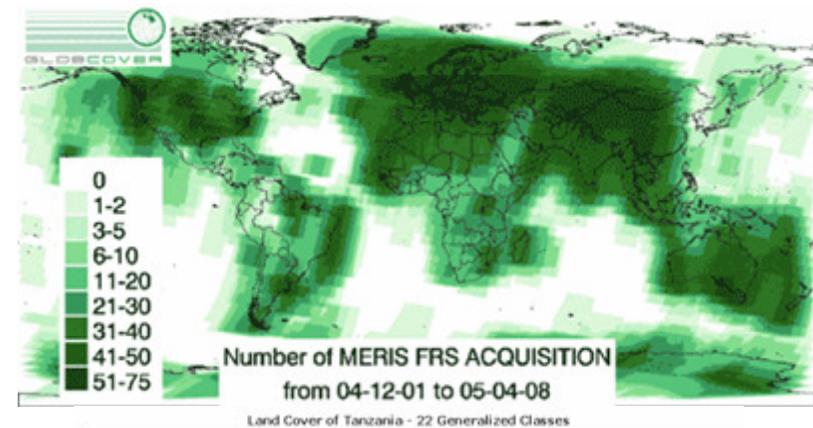
Datasets	Type	Coverage	Source
Global Burnt Areas	fires	w orld	JRC
Active fires (MODIS) 2001-2009a	fires	w orld	UMD/FAO
SRTM DEM (Shuttle Radar Topography Mission – Digital Elevation Model)	DEM	w orld	NASA
Multidate sample imagery and composites from USGS Global Land Survey (1990-2000-2005)	satellite imagery	w orld	USGS
Population (Mapping global urban and rural population distributions)	population	w orld	FAO
Mangroves	land cover	DRC, Ecuador, Indonesia, Panama, PNG, Tanzania, Viet Nam	UNEP-WCMC/FAO
WDPA 2009 (World Database on Protected Areas)	protected areas	w orld	UNEP-WCMC
GLC2000 (Global Land Cover 2000)	land cover	w orld	JRC
Africover (1997-2002)	land cover	Kenya, DRC, Tanzania	FAO
GlobCover (vector and raster, 2005)	land cover	w orld	ESA
Ancillary data from ESRI	misc	w orld	ESRI





GIS Integration and Data

- **Land cover (Globcover)**
by the European Space Agency (ESA); 300 m resolution; based on 2005 MERIS imagery.
- Included **raster version** from ESA database
- Included FAO's re-processed **vector version**, coded using LCCS and topologically corrected for its use in the Advanced Database Gateway (ADG) tool.



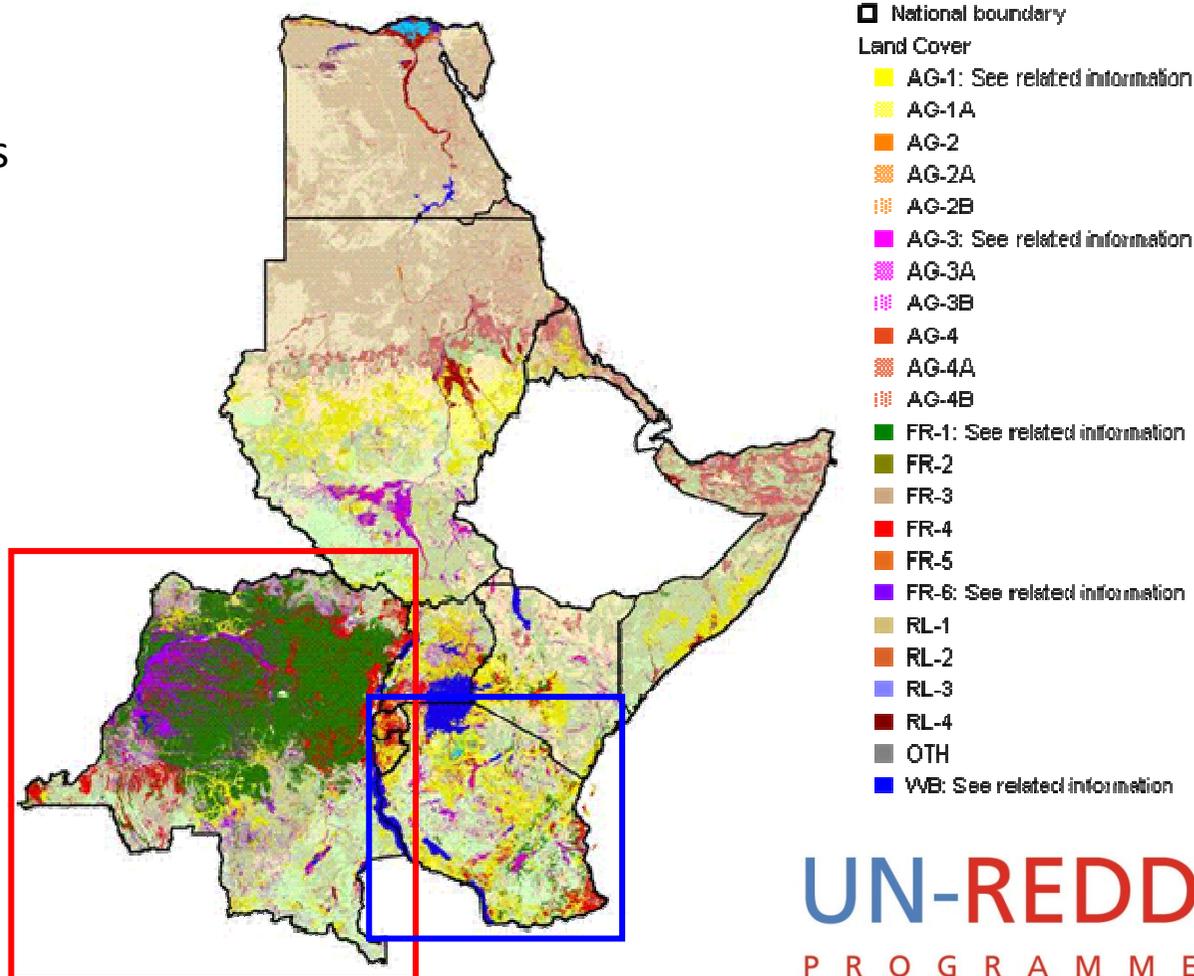


GIS Integration and Data

- **Land cover (Africover)**

Multipurpose databases available for 10 countries at 1:200,000 scale (1:100,000 for the small ones). Based on ~2000 Landsat imagery; 30 m resolution.

- Democratic Republic of Congo
- Tanzania

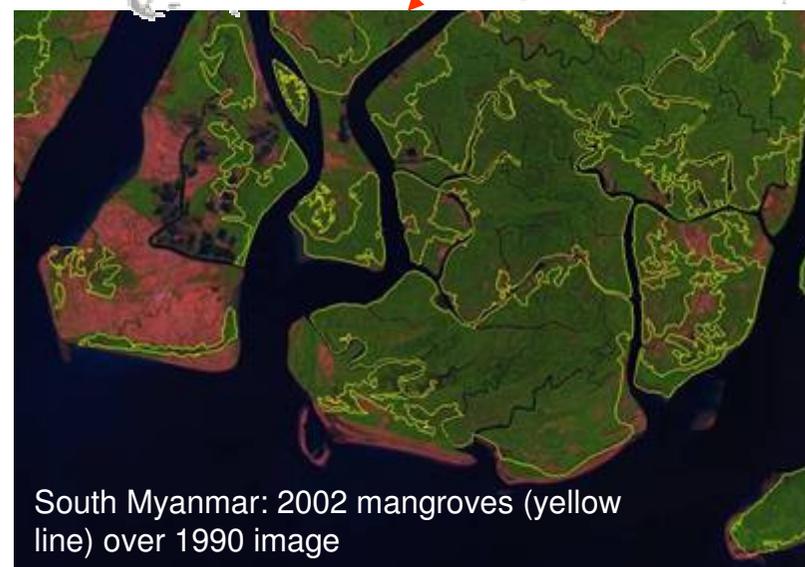
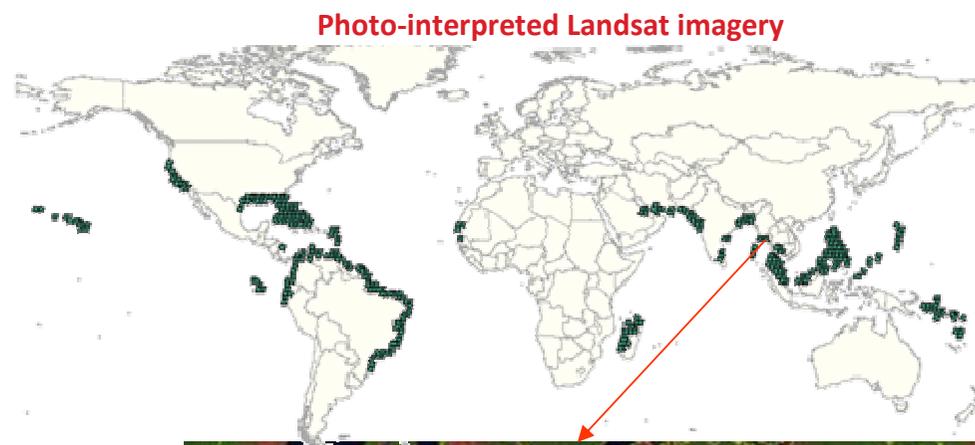




GIS Integration and Data

- **Land cover (Mangroves)**

- FAO is key partner of ISME, ITTO, UNESCO-MAN, UNEP-WCMC and UNU-INWEH in developing the second edition of the World Atlas of Mangroves.
- FAO, through the support of the Global Land Cover Network (GLCN) and Global Terrestrial Observing System (GTOS), is contributing to this initiative through the preparation of digital maps for more than 40 countries.





GIS Integration and Data

- **Fires (active fires from MODIS).** *Source MODIS Rapid Response System by NASA*
 - Dataset (vector, point) of fires location covering period Nov2000-Jun2009
 - Aggregated statistics by year/month and sub-national administrative boundaries
 - Statistics on frequency of fires by land cover type (Globcover)

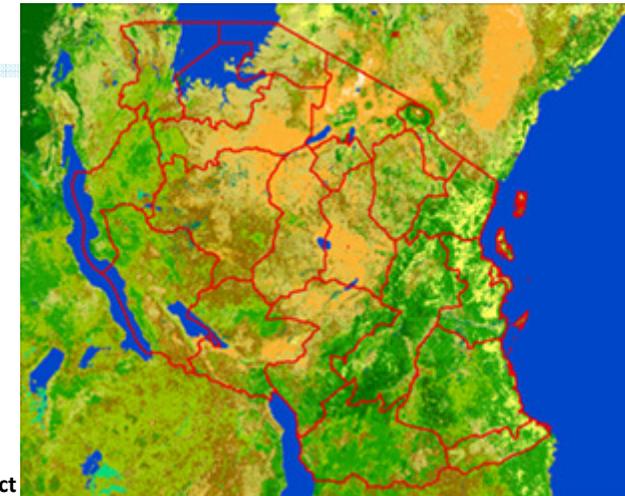


D



GIS Integration and Data

- **Fires (active fires from MODIS).** *Source MODIS Rapid Response System by NASA*
 - Example of national statistics: Tanzania



© ESA / ESA Globcover Project

COLOUR	VALUE	CLASS	N. OF FIRES
	14	Rainfed croplands	26314
	30	Mosaic vegetation (grassland/shrubland/forest) (50-70%) / cropland (20-50%)	82919
	40	Closed to open (>15%) broadleaved evergreen or semi-deciduous forest (>5m)	7953
	50	Closed (>40%) broadleaved deciduous forest (>5m)	156091
	60	Open (15-40%) broadleaved deciduous forest/woodland (>5m)	166267
	70	Closed (>40%) needleleaved evergreen forest (>5m)	13
	90	Open (15-40%) needleleaved deciduous or evergreen forest (>5m)	10888
	100	Closed to open (>15%) mixed broadleaved and needleleaved forest (>5m)	26736
	110	Mosaic forest or shrubland (50-70%) / grassland (20-50%)	28259
	120	Mosaic grassland (50-70%) / forest or shrubland (20-50%)	13714
	130	Closed to open (>15%) (broadleaved or needleleaved, evergreen or deciduous) shrubland (<5m)	105571
	140	Closed to open (>15%) herbaceous vegetation (grassland, savannas or lichens/mosses)	24128
	150	Sparse (<15%) vegetation	158
	160	Closed to open (>15%) broadleaved forest regularly flooded (semi-permanently or temporarily) - Fresh or brackish water	10652
	180	Closed to open (>15%) grassland or woody vegetation on regularly flooded or waterlogged soil - Fresh, brackish or saline water	1415
	190	Artificial surfaces and associated areas (Urban areas >50%)	314
	200	Bare areas	14



GIS Integration and Data

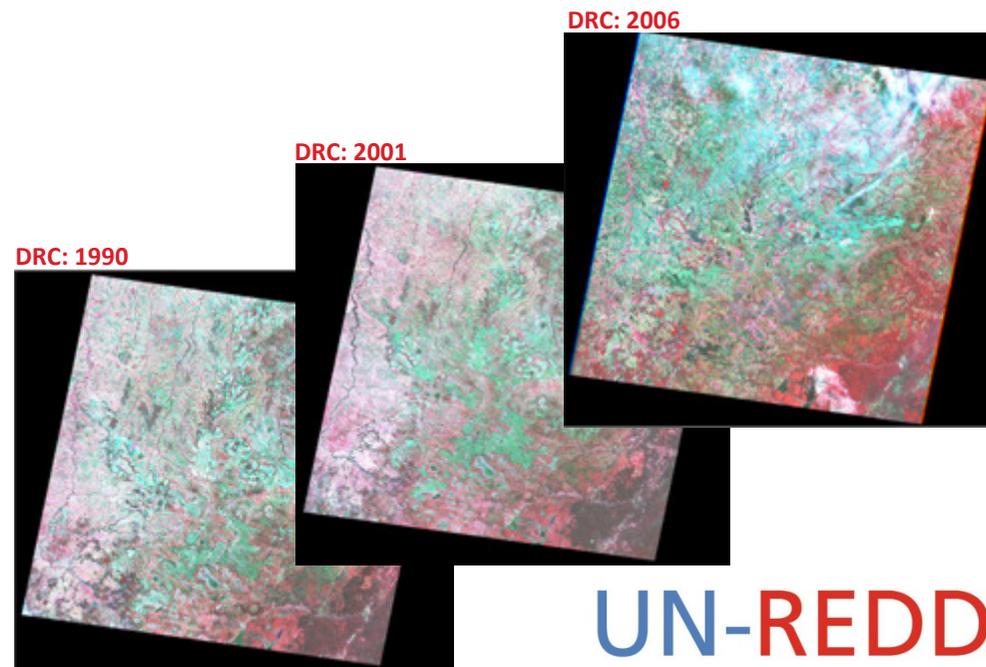
- **Satellite Imagery (Landsat)**

- Landsat scenes from the Global Land Survey archive (USGS)
 - raw scenes
 - composites (false and real color)
- Resolution 30 m



No. of scenes per country and year

Country/Year	1990	2000	2005	Total
Bolivia	73	68	65	206
DRC	121	150	131	402
Indonesia	223	237	352	812
Panama	11	9	22	42
Paraguay	32	30	31	93
PNG	67	74	120	261
Tanzania	51	59	57	167
Vietnam	40	42	41	123
Zambia	46	49	47	142
Ecuador	22	19	25	66
Total	686	737	891	2314



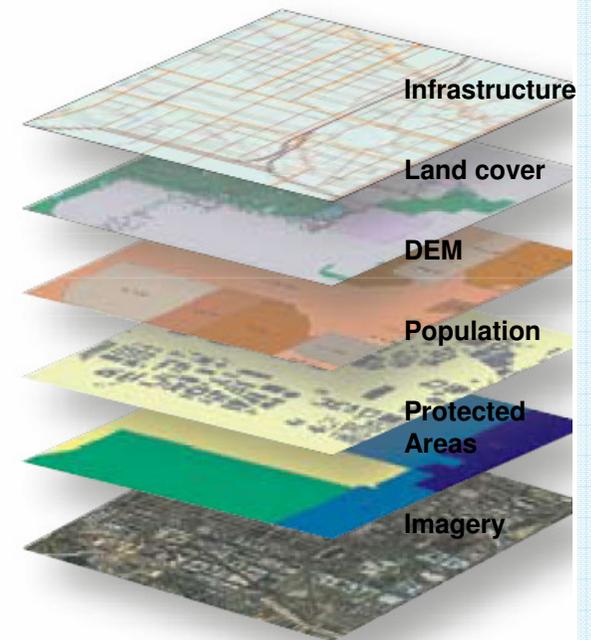


GIS Integration and Data

- Data sets at country extent (9+1)
- Overall size of 1.5 TB
- Distributed by using external hard disks



- also included:
 - tools
 - manuals/tutorials
 - documentation



UN-REDD
PROGRAMME

Thank you for
listening!

