

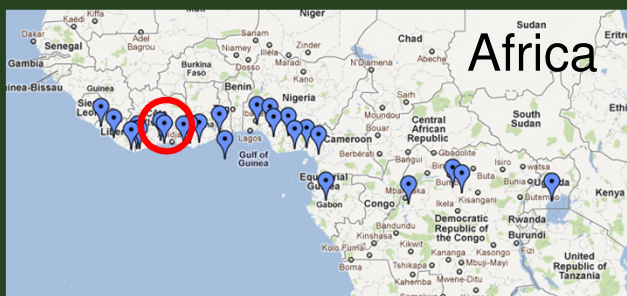


Palm Oil and Land Use Change Rest of World (ROW)

Presented by
Timothy Killeen

RSPO RT9: GHG Cluster Session
Kota Kinabalu, 22 November 2011

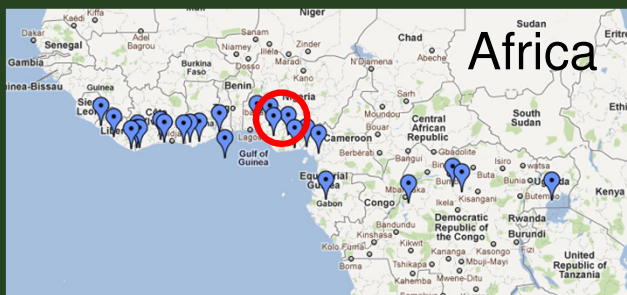
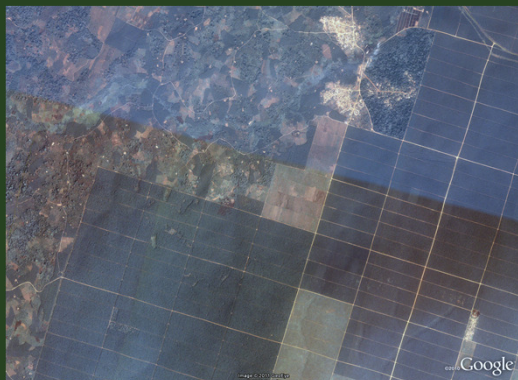
	FAOSTAT (MTX1000)	Yield (estimate)	Area under cultivation (X 1000 ha)	small- holders
Nigeria	1,380	0.8	50 (->1000)	80%
Thailand	1,310	2.1	628	75%
Colombia	802	2.3	350	*
Papua New Guinea	470	3.6	150	25%
Côte d'Ivoire	325	1.7	100 (-> 300)	70%
Ecuador	321	1.6	200	*
Honduras	290	3.0	90	0
Brazil	265	3.0	85	25%
Costa Rica	191	4.7	41	26%
DRC (Congo)	185	0.8	10 (-> 200)	> 80%
Cameroon	182	0.8	?	> 80%
Guatemala	180	3.0 (5)	45	*
Ghana	130	1.7	50	80%



Africa

Ivory Coast
 Industrial plantation
 Mixed agroforestry
 Organized smallholder

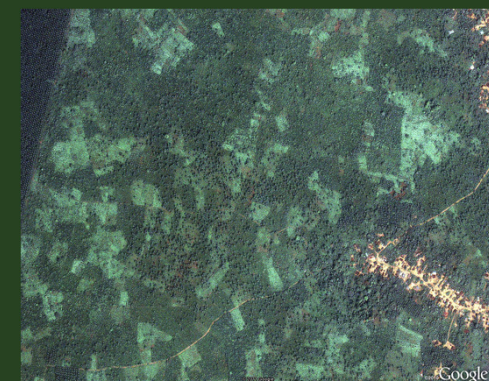
~191,000 Mt
 70% smallholders

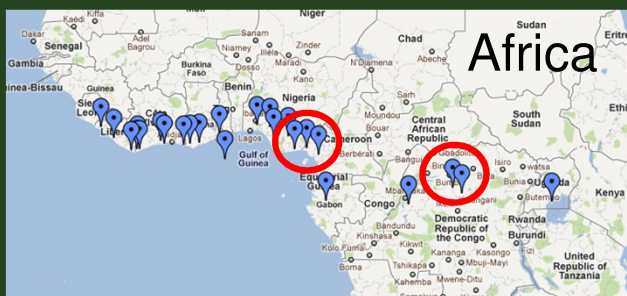


Africa

Nigeria
 Industrial plantation
 Mature landscapes
 with agroforestry
 (scattered palms)

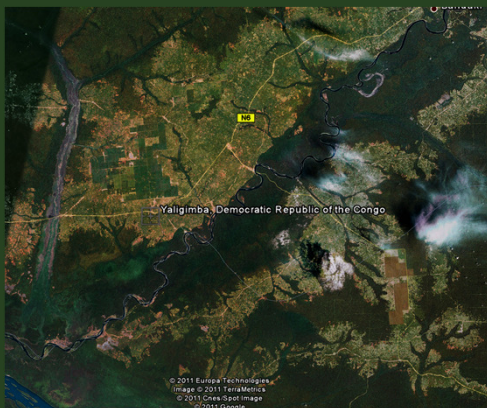
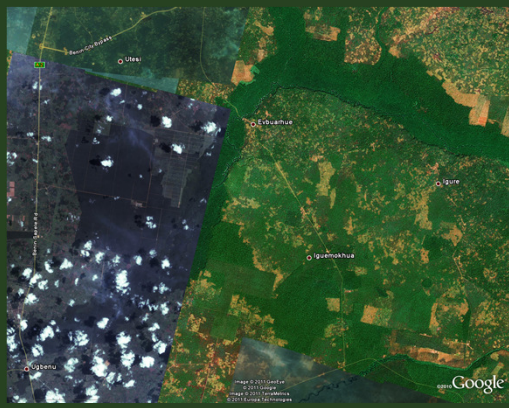
50,000 → 1.2 M ha
 80% smallholders



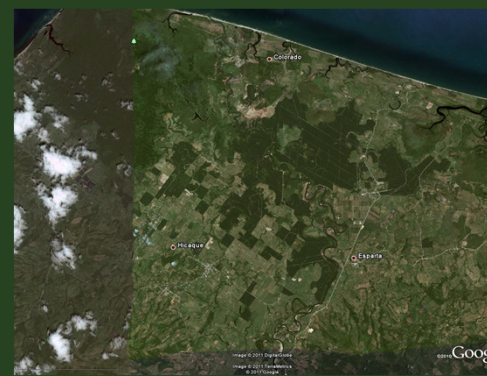
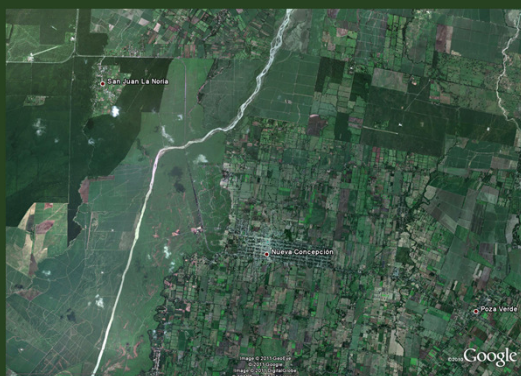


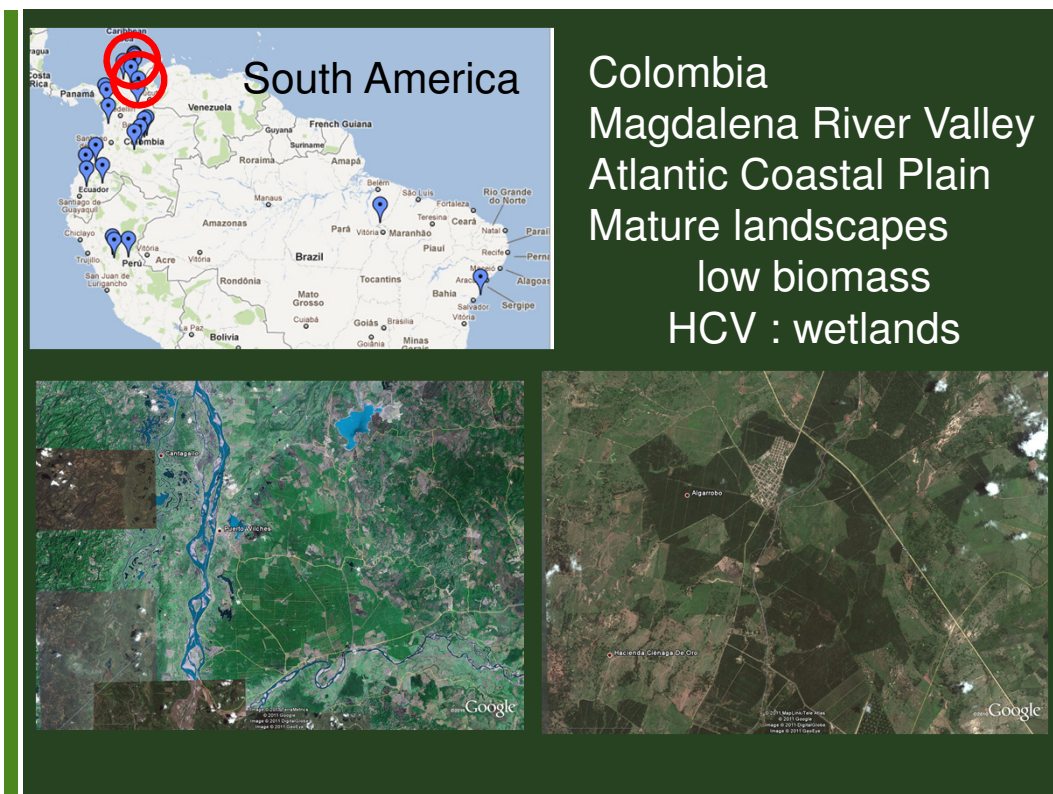
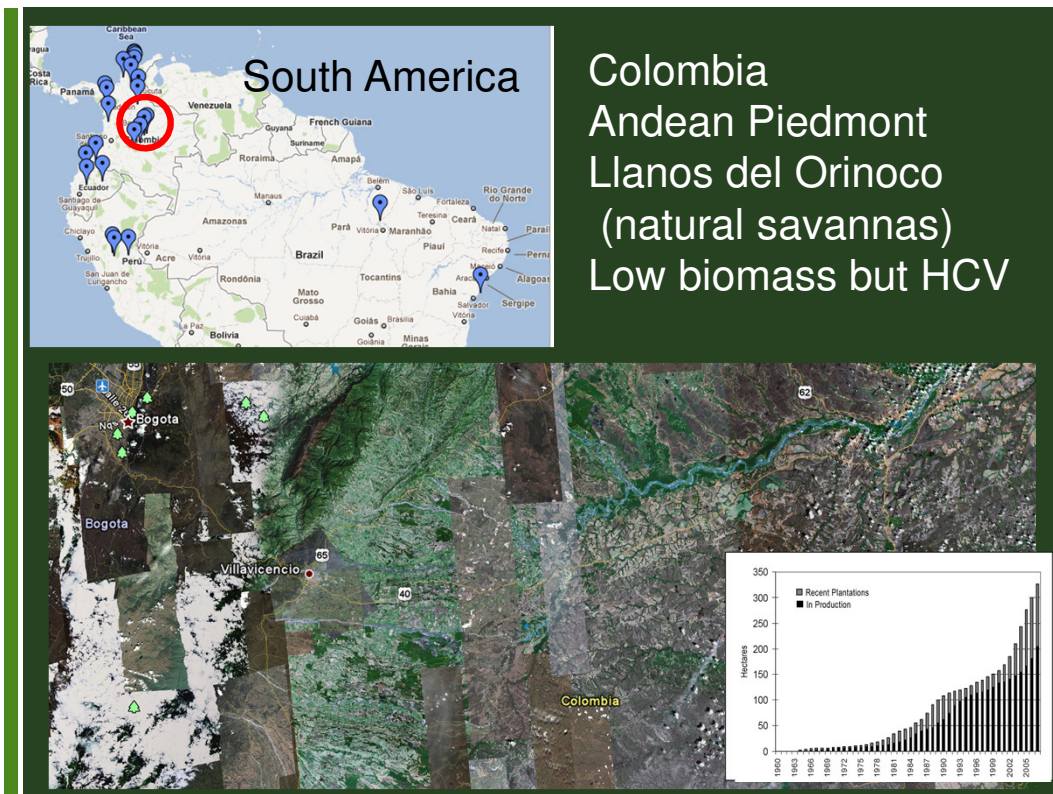
Nigeria
State forest lands

DRC
Potential Expansion



Honduras (Caribbean)
Guatemala (Pacific Coast)
Industrial Palm & Sugar cane
Out-growers (medium sized)
Smallholder communities
Mature landscapes







South America

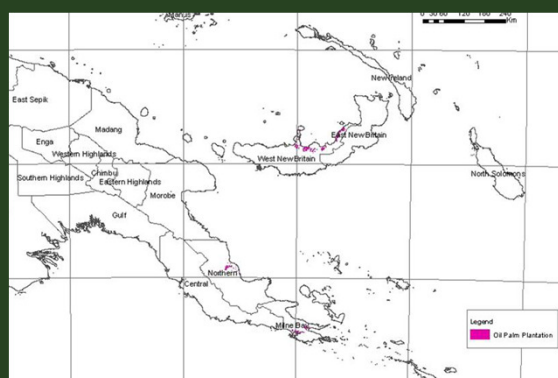
Brazil - Bahia State
 Dendé introduced in 16th Century
 Plantations; 10,000 ha
 Smallholders: 20,000




South America

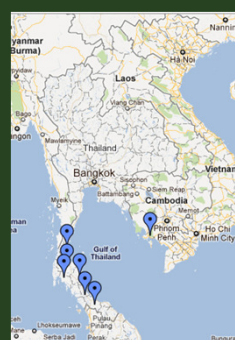
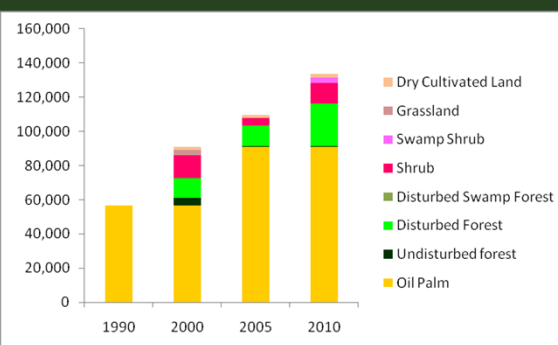
Brazil
 Para State
 Plantation (40,000 ha)
 Out Growers (8,000 ha)
 Smallholders (2000 ha)
 Forest Law 4:1 ratio



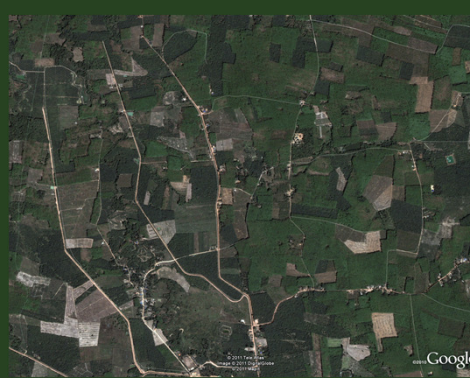



PNG
 3 plantation clusters
 Reported: 150,000
 Landsat: 133,000

Smallholders
 ~ 30% production
 ~13% of area not detected by satellite



Thailand
 Smallholders
 Mixed agroforestry
 Rubber, rice, aquaculture





Conclusions (LUC in ROW)

Most industrial plantations are legacies of previous investment cycles (decades old)

Occupy mature landscapes surrounded by small to medium sized farmers

Expansion of industrial plantations will be problematic, but potential for smallholder initiatives are massive