

15th Session of the UN CSD

UN Headquarters, New York 2 May 2007







- Deforestation: Reducing rates of deforestation is possible and urgently needed.
- Positive Incentives: Leading drivers are identifiable. In most cases, higher carbon 'incentives' will drive greater emissions reductions from deforestation.
- Sustainable Development: Catalyze gains toward climate stability, poverty reduction, biodiversity conservation, and rural development.
- Funding is Available: Principle of proportionality: policy dedicating 20% of emissions markets trades would provide revenues at necessary scale: \$5 - \$30 billion per year.



Deforestation Drivers

- FOOds: Soya, Coffee, Cocoa, Sugar, Gardens, Ranching, etc.
- Logging: Low value exports, unsustainable practices.
- Development: Roads, Energy, Mining, Power-Lines, etc.
- Population: Urbanization + growth drives above.

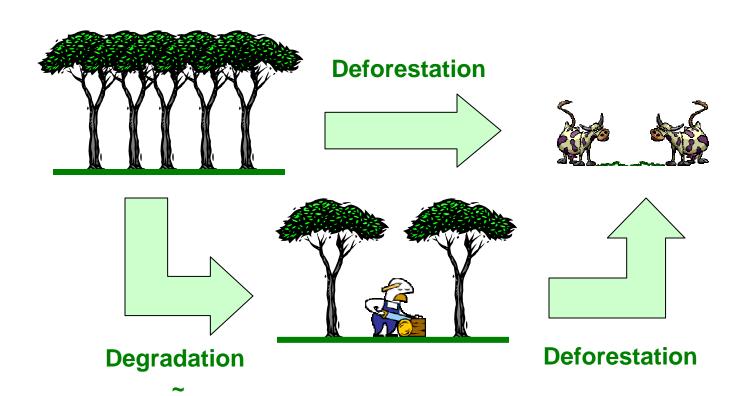
Perverse Incentives!





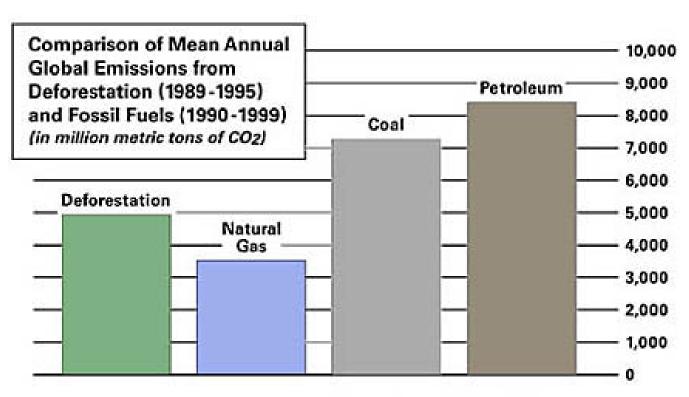
Conversion











Source: IPCC; US Department of Energy





- FOOds: Intensification + Productivity Gains
- Logging: Carbon-neutral sustainable logging
- Energy: Hydro-Electric Power, bio-fuels etc.
- Population: Urbanization + Intensification

Funds
Technology
Policy







One billion acres of tropical forest lost



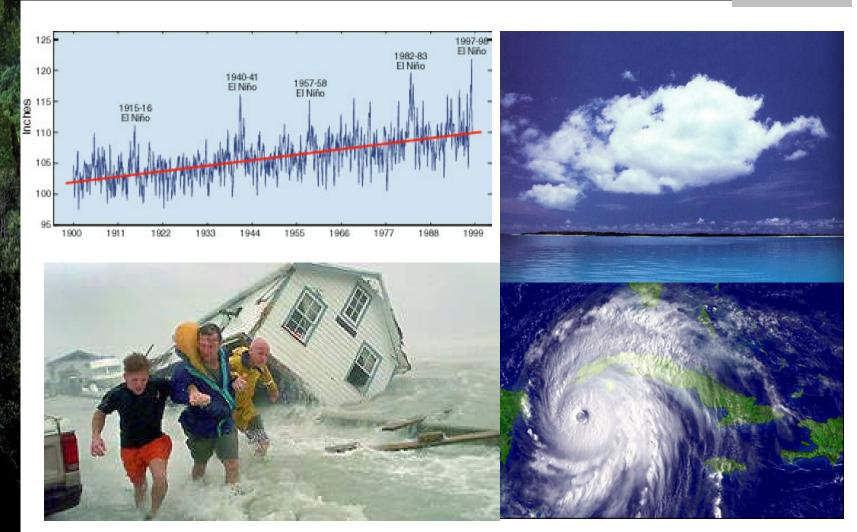












Impacts on Coral Reefs



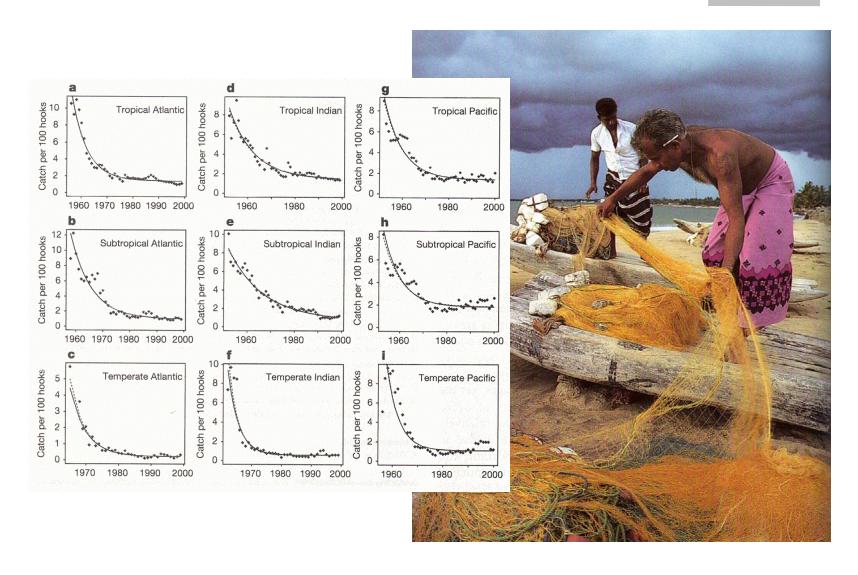






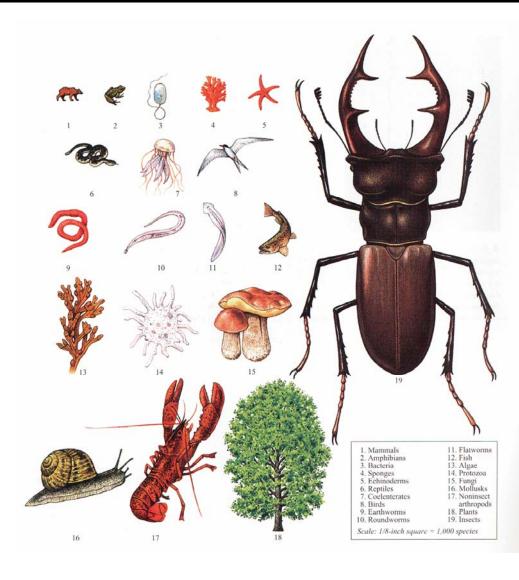












Vertebrates

- 56,586 spp.
- 21% threatened

Invertebrates

- 1,190,200 spp.
- •58% threatened

Plants

- 287,655 spp.
- 69% threatened

Total

- 1,534,441 spp.
- 59% threatened







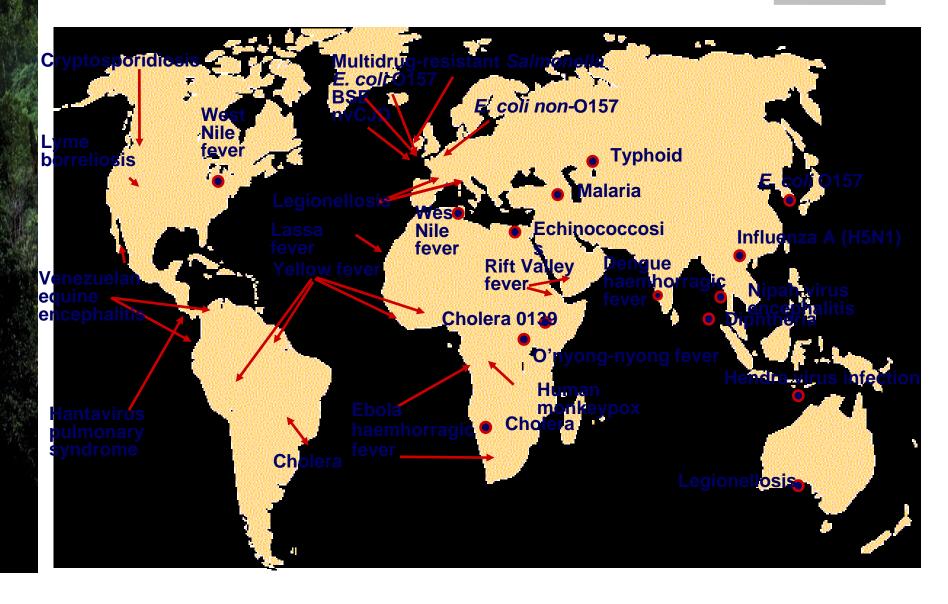
Pest Control

Pollination

Disease Buffering

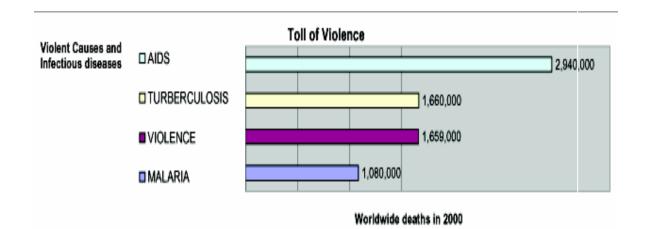


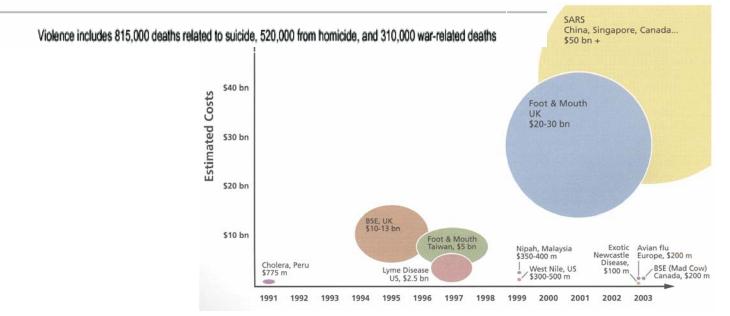
Infectious Diseases













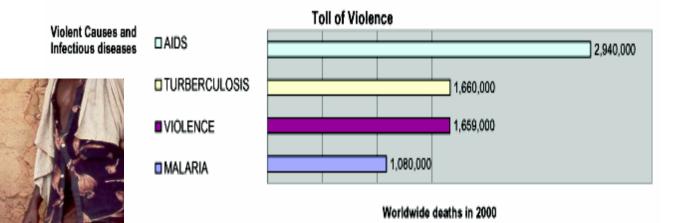






Social Disruption





Violence includes 815,000 deaths related to suicide, 520,000 from homicide, and 310,000 war-related deaths





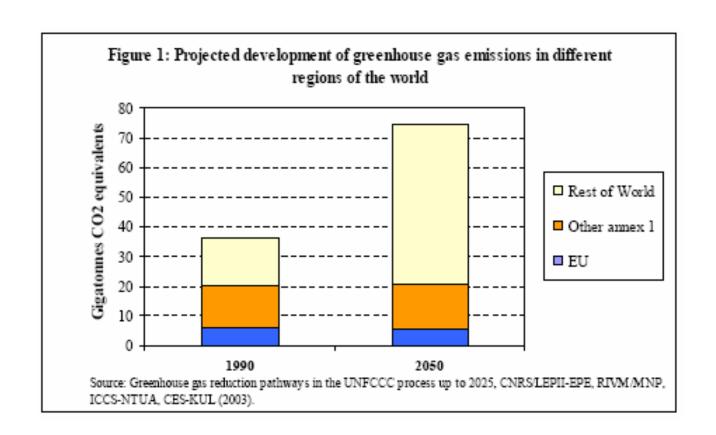


- Temperature Change: Limit global average temperatures from rising 2° C above preindustrial levels.
- This probably requires:
 - Stabilizing C0₂ concentrations at or below 450 p.p.m.
 - Reducing industrialized country emissions 80% below 2000 levels by 2050.
 - Opportunity for Developing Nations!





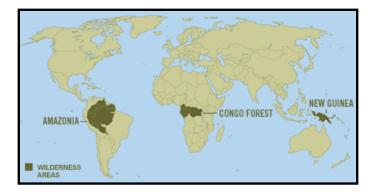
Developing Nations







- Land Use Change: The IPCC has concluded that during the 1990's an estimated 20-25% of global annual greenhouse gas emissions came from LULUCF - degradation of tropical forests.
- Deforestation: At current annual rates, deforestation from Brazil and Indonesia alone would equal 80% of the emissions reductions gained by implementing the KP in its first commitment period.







In forest, carbon is present in different carbon pools



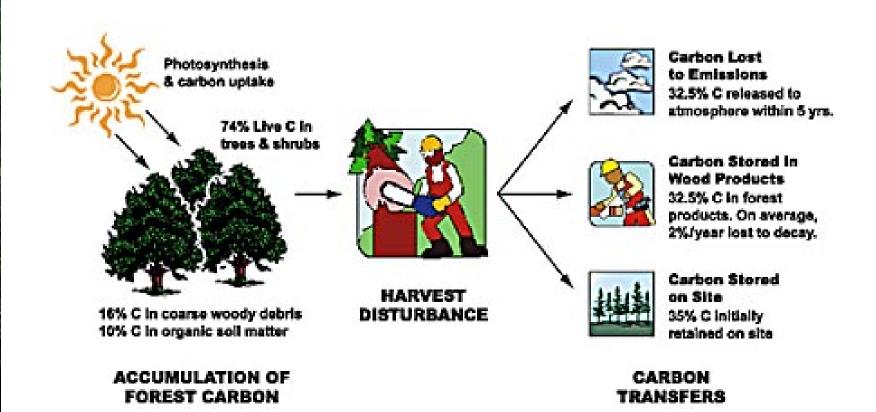
Above-ground biomass

Litter and soil

Below-ground biomass











- Climate: Capture a significant source of carbon emissions currently outside frameworks.
- Rural Development: Significant new revenue streams to addresses poverty in rural areas with clear metrics to access effectiveness.
- National: Increases the flexibility of developing countries through a 'national' approach.
- MDGs: Underpins MDG objectives related to environment, poverty, gender equality, health, etc.
- Biodiversity: Major biodiversity conservation benefits.
- Soils: Supports efforts against desertification and soil erosion.
- Water: Watershed protection and potable water supply.





- KP Exclusion: Kyoto excludes developing nations that reduce deforestation emissions. Kyoto unfairly discriminates against these nations in the world carbon markets.
- Market Access: Tropical rainforest nations deserve to be treated equally. If we reduce deforestation, fair compensation for reductions. A ton is a ton is a ton.







TABLE 2.5
Ten countries with largest annual net loss in forest area 2000–2005

| Country | Annual change (1 000 ha/yr) |
|------------------------------------|--------------------------------|
| Brazil | -3 103 |
| Indonesia | -1 871 |
| Sudan | -589 |
| Myanmar | -466 |
| Zambia | -445 |
| United Republic of Tanzania | -412 |
| Nigeria | -410 |
| Democratic Republic of the Congo | -319 |
| Zimbabwe | -313 |
| Venezuela (Bolivarian Republic of) | -288 |
| Total | -8 216 |

TABLE 2.6 Ten countries with largest annual net gain in forest area 2000–2005

| Country | Annual change (1 000 ha/yr) | | | | | |
|---------------|--------------------------------|--|--|--|--|--|
| China | 4 058 | | | | | |
| Spain | 296 | | | | | |
| Viet Nam | 241 | | | | | |
| United States | 159 | | | | | |
| Italy | 106 | | | | | |
| Chile | 57 | | | | | |
| Cuba | 56 | | | | | |
| Bulgaria | 50 | | | | | |
| France | 41 | | | | | |
| Portugal | 40 | | | | | |
| Total | 5 104 | | | | | |
| | | | | | | |



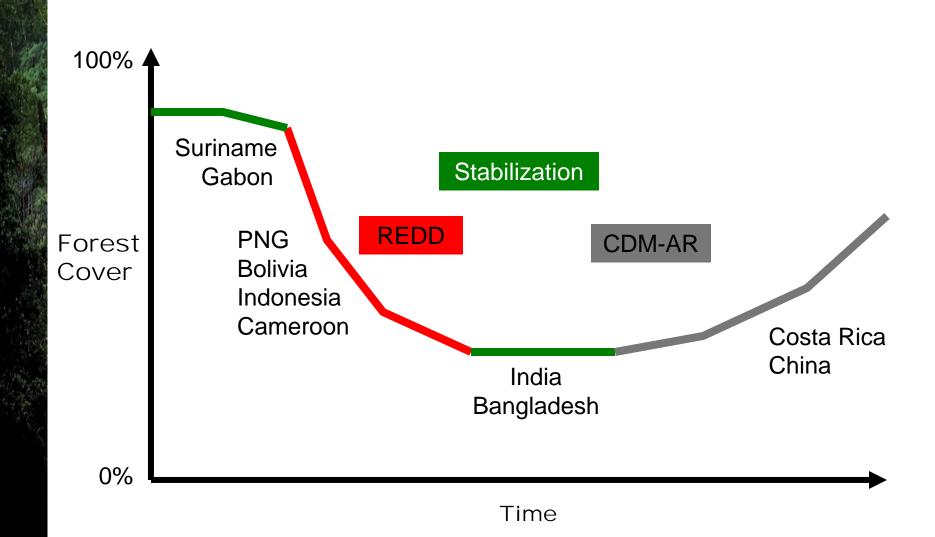


TABLE 2.7 Comparison of forest area estimates in FRA 2005 and FRA 2000

| Region | FRA 2005 estimates | | | FRA 2000 estimates | | |
|---------------------------|---------------------------|-----------|-----------------------------------|---------------------------|-----------|-----------------------------------|
| | Forest area (1 000 ha) | | Annual change (1 000 ha/yr) | Forest area (1 000 ha) | | Annual change (1 000 ha/yr) |
| | 1990 | 2000 | 1990-2000 | 1990 | 2000 | 1990-2000 |
| Africa | 699 361 | 655 613 | -4 375 | 702 502 | 649 866 | -5 262 |
| Asia | 574 487 | 566 562 | -792 | 551 448 | 547 793 | -364 |
| Europe | 989 320 | 998 091 | 877 | 1 030 475 | 1 039 251 | 881 |
| North and Central America | 710 790 | 707 514 | -328 | 555 002 | 549 304 | -570 |
| Oceania | 212 514 | 208 034 | -448 | 201 271 | 197 623 | -365 |
| South America | 890 818 | 852 796 | -3 802 | 922 731 | 885 618 | -3 711 |
| World | 4 077 291 | 3 988 610 | -8 868 | 3 963 429 | 3 869 455 | -9 391 |

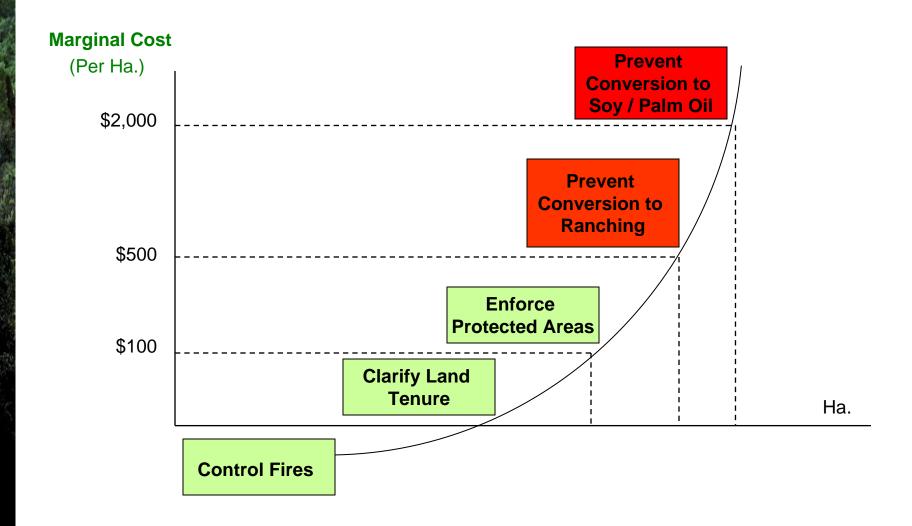


Forest Cover Trends



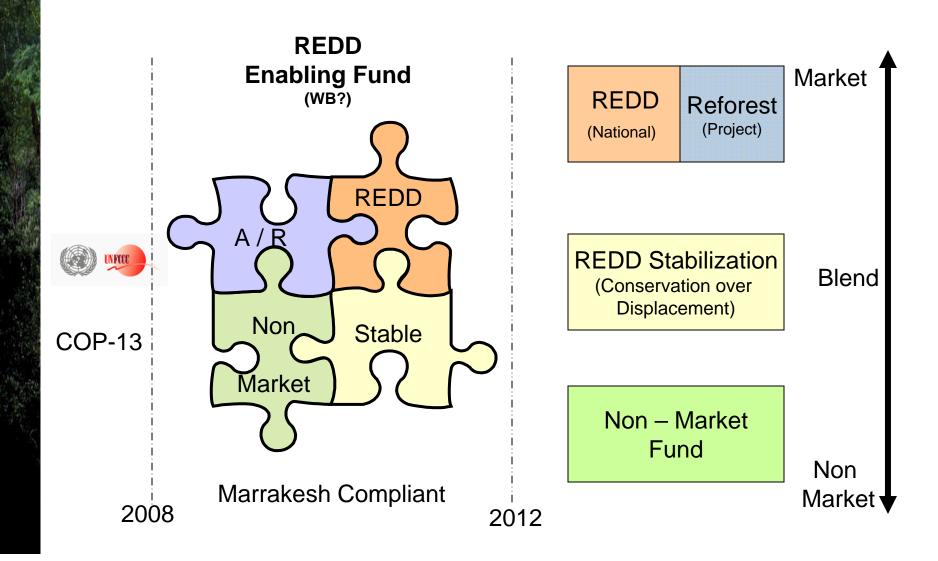






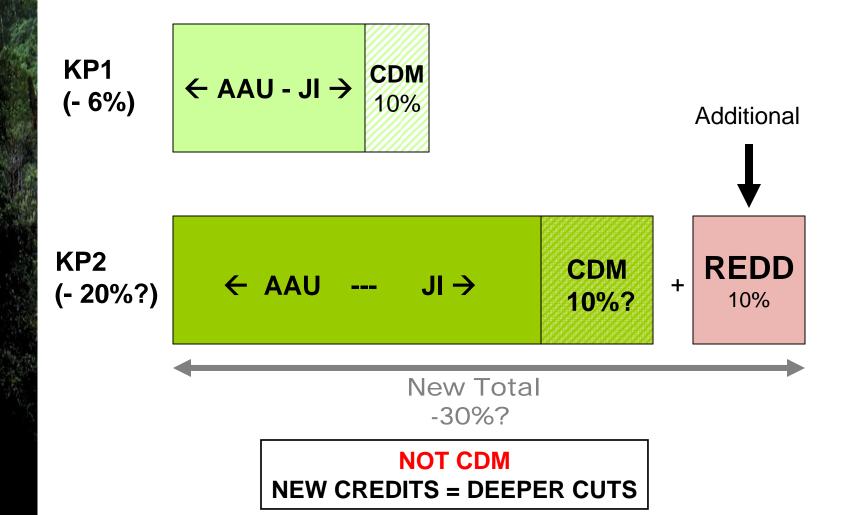
Basket of Instruments





Additional: Deeper Cuts









- Bolivia
- Cameroon
- Central African Rep.
- Congo
- Costa Rica
- DR Congo
- Dominican Republic
- Fiji
- Gabon
- Guatemala
- Nicaragua
- Panama
- Papua New Guinea
- Solomon Islands
- Vanuatu



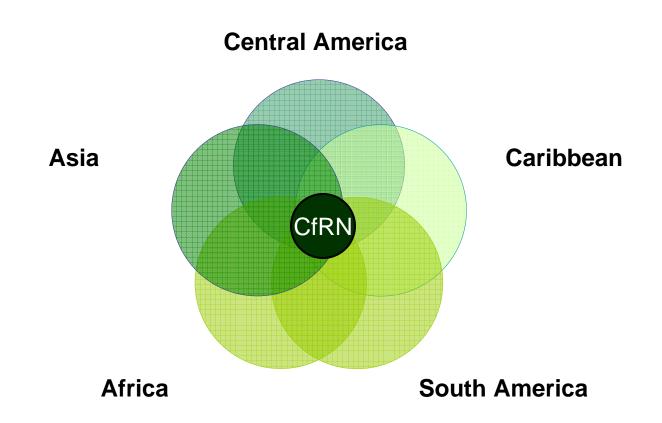








Rainforest Coalition



Interregional Policy Development & Consensus





- Pre-Conditions: Voluntary. Funding at scale: \$5 \$30 Billion/year. Markets instruments most likely. If so, deepen Annex-B Targets: any new supply must be met by new demand.
- Expand Existing Efforts: Build on Successes and lessons learned in both Annex and Non-Annex. Build Capacity. Pilot National Scale.
- Credit for Early Action: Facilitate funding flows.
 Pre-2012 emissions reductions can be credited post-2012.
- Sustainable Financial Resources: Traditional monies not sustained, not adequate. Countries need certainty to begin transformations.