INITIAL IDEA FOR REDD+ EMISSION REDUCTION PROGRAM IN VIETNAM

Presented at the 4th FCPF Carbon Fund Santa Marta, Colombia 24-25 June 2012

Overview

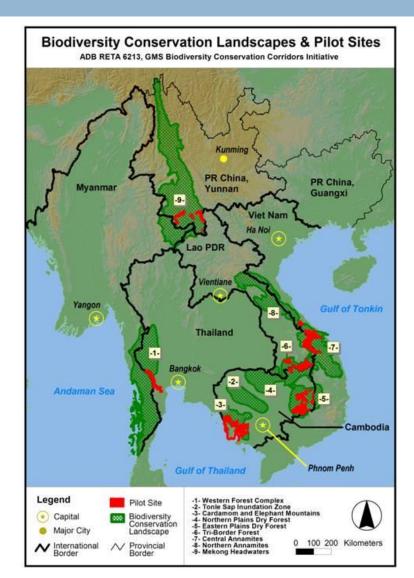
- 1. Vietnam at glance and its strategic point of view on responding to climate change
- 2. National CC/REDD+ policies and ER ambition
- 3. How ambition for reducing emissions will be obtained, especially for REDD+?

1. Vietnam at glance and its strategic point of view on responding to climate change

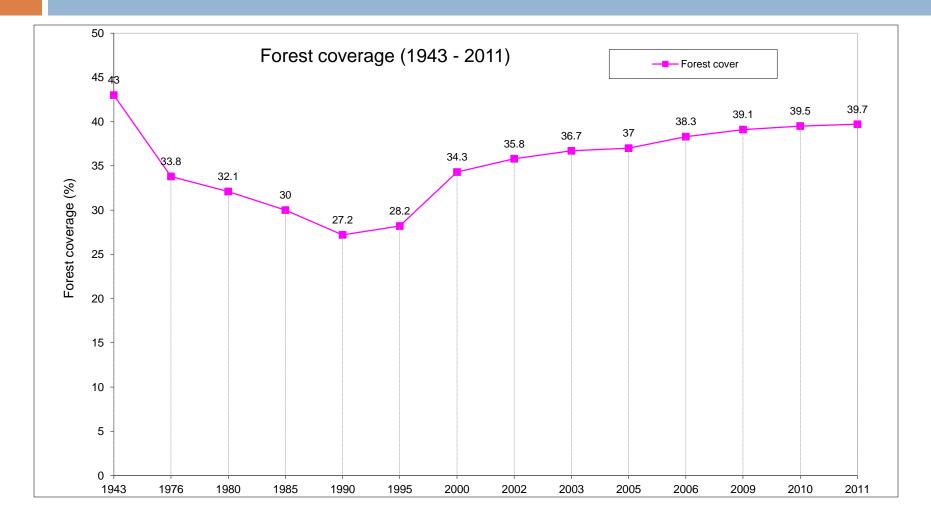
Vietnam at glance

Located in SEA

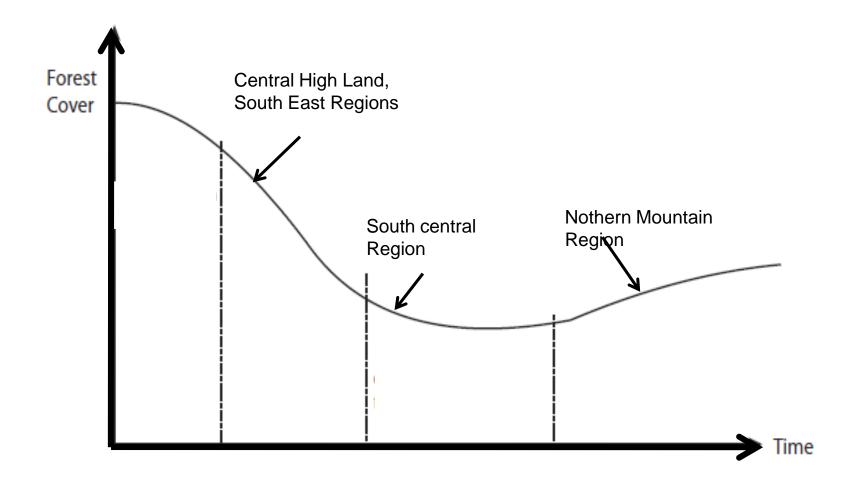
- Total land mass: 33 million Ha, of which ³/₄ are hills& mountains
- Population in 2010: 87 mill, of which 70% lived in rural areas and livelihoods rely on agricultural cultivation
- Forestland: 16.24 million ha;
 Forest coverage in 2011: 39.7%
 land mass



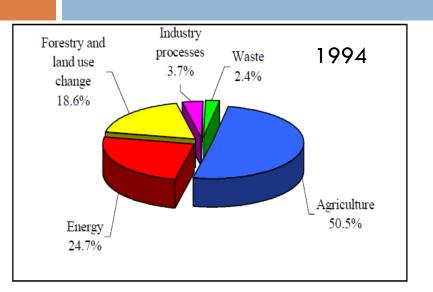
Change in national forest coverage (1943-2011)



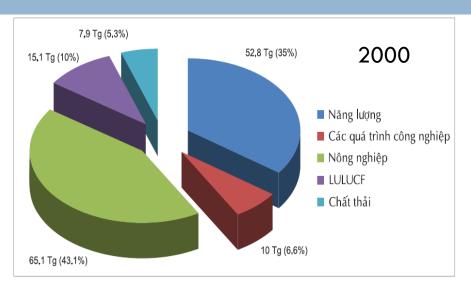
Dynamics of forest cover change in Vietnam



General information on National GHG



- Total emissions: 103.8 mill. tonnes CO₂e
- Agriculture: 50.5%
- Energy: 24.7%
- LULUCF: 18.6 %
- Agri + LULUCF=69.1% (71.8 mill. tonnes)



- Total emissions: 150.8 mill. tonnes CO₂e; 1.94 tons/person
- Agriculture: 43%
- Energy: 35%
- LULUCF: 10%
- Agri + LULUCF=53% (60.2 mill. tonnes)

Source: National Communications

Strategic point of view on responding to CC

- Climate change is the most challenging issue and heavily influences to global development.
- Effective and timely response to CC is indispensable to ensure sustainable development.
- Vietnam is willing to take parts in the international efforts to protect global climate system by conducting both adaption and mitigation actions; adaption actions are prioritized for the first period.
- CC actions should be suitable to national circumstances and international process, with active participation of all relevant stakeholders, using a combination of solid scientific and economic foundation, traditional knowledge; with the provision of international support.

2. National CC/REDD+ policies and emission reduction ambition

Key climate change & REDD+ policies

- National Climate Change Strategy (Decision 2139/QD-TTg of Prime Minister dated 05th Dec 2011);
- National REDD+ Action Plan (NRAP);
- National Green Growth Strategy (draft was presented at the Rio)

Ambition of reducing emissions

- To ensure low-carbon and green development, food & energy security, SD
- Reducing emission reduction will become a compulsory requirement for all economic sector;
- In agricultural sector: to promote green agricultural development; every decade, reduce 20% GHG emissions, growth rate 20% and reduction of poverty rate by 20%; protecting existing forests, promoting reforestation and afforestation, increase in forest coverage 45% total land mass by 2020;
- Role of forestry sub-sector: reduces GHG emissions from DD and enhances removals from agricultural pratices - estimate: 19 million tons CO₂e

3. How ambition for reducing emissions will be obtained, especially for REDD+?

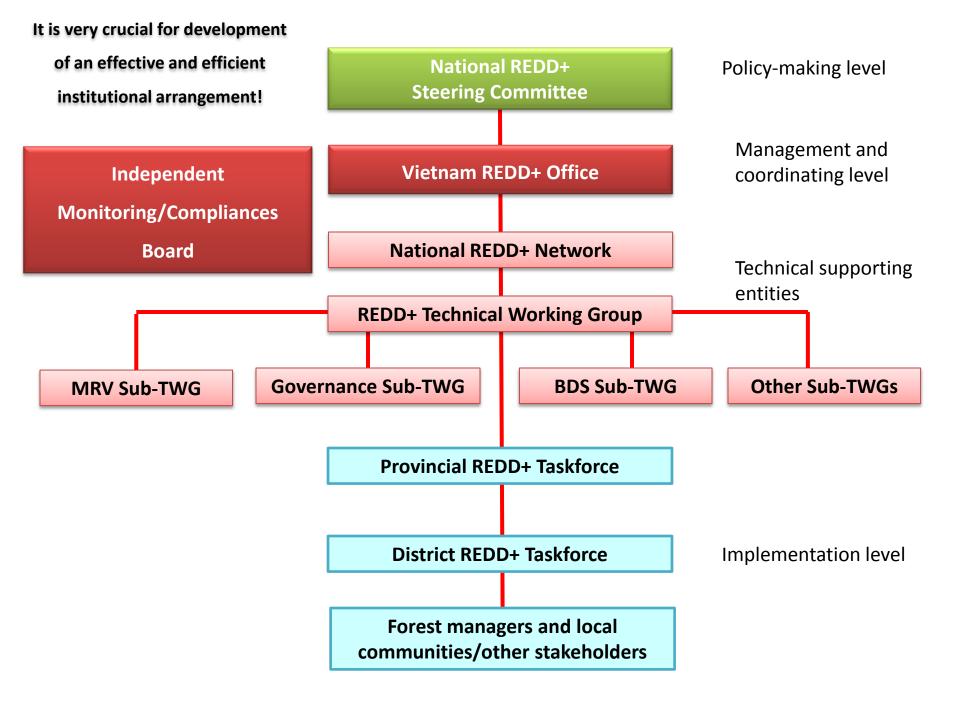
Adopting suitable approaches

- Comply with UNFCC principles and guidance
- Step-wise, learning-by-doing to reduce uncertainties and allow scaling up, 2 sub-periods: 2012-2015, 2016-2020 and onwards. From 8-10 provinces will be selected to carry out full-scale of REDD+ demonstrations in the period from 2012-2015;
- Landscape and ecosystem approach: not only silvicultural practices and fencing forests
- Enabling environment: consistent strategies and supported by other policies/program; effective and efficient institutional arrangement; etc

Supporting policies

GHG mitigation actions require close cross-sectoral coordination and synergies. In addition, REDD+ is one of many measures to reduce emissions from/by forests. Therefore, successful implementation of the REDD+ ER Program needs a series of supporting policies. Key policies are:

- National Program on GHG emission reduction in agriculture and rural development sector for period from 2011-2020;
- National Action Plan on forest protection and development for the period from 2011-2020;
- National Policy on Payment for forest environmental services (PFES);
- National policy on SFEs reform with support from GIZ and WB
- National Target Program on Rural Development, Poverty Reduction, and the National Program on fast and sustainable poverty alleviation in 62 poorest districts.



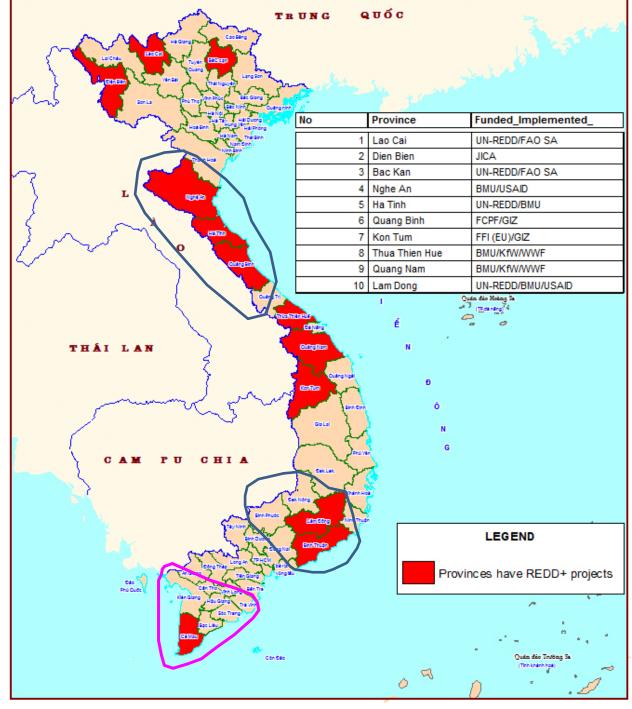
Key REDD+ Readiness Related Projects

- UN-REDD Vietnam Program Phase 1
- REDD Readiness (R-PP) funded by FCPF
- BMU-funded "Exploring mechanisms to promote high biodiversity conservation through REDD+"
- BMU-funded "Advancing understanding on C stock enhancement"
- UN-REDD Vietnam Program Phase 2: two parts (TA & provision of PI)
- USAID "Low emissions from Asian Forests LEAF": target of 16 mill CO₂e
- USAID-funded "Vietnam Forests and Delta Program: 2012-2017"
- EU/FAO "Climate Smart Agriculture"
- JICA-funded "Dien Bien REDD+ Pilot Project"
- GIZ AusAID "Climate Change and Coastal Ecosystems in the Mekong River Delta"
- Vietnamese-German Forestry Prog: Support for SFEs reform and SFM

Selection of suitable sites for REDD+ ER Program

- Potential of GHG ER
- Commitment of local authorities and capacities of relevant stakeholders
- Close collaboration with different international partners and government programs
- Minimizing risk of reversal and displacement, including regional displacement

ER Program will consist of a group of continuous provinces and some separate provinces (fig and numbers will be provided)

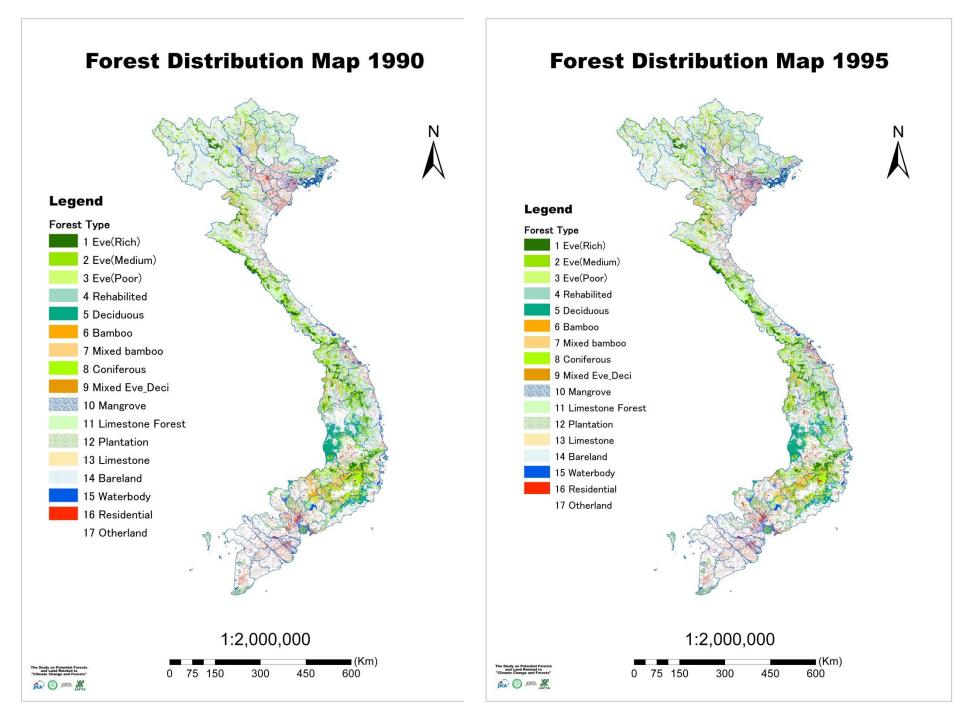


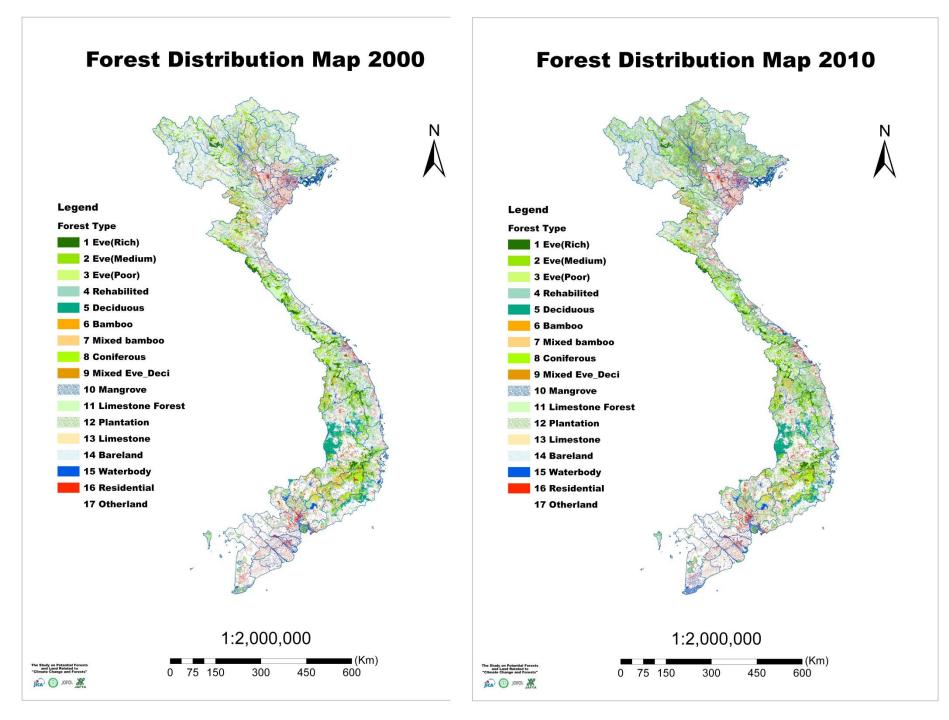
Implications for ER Program

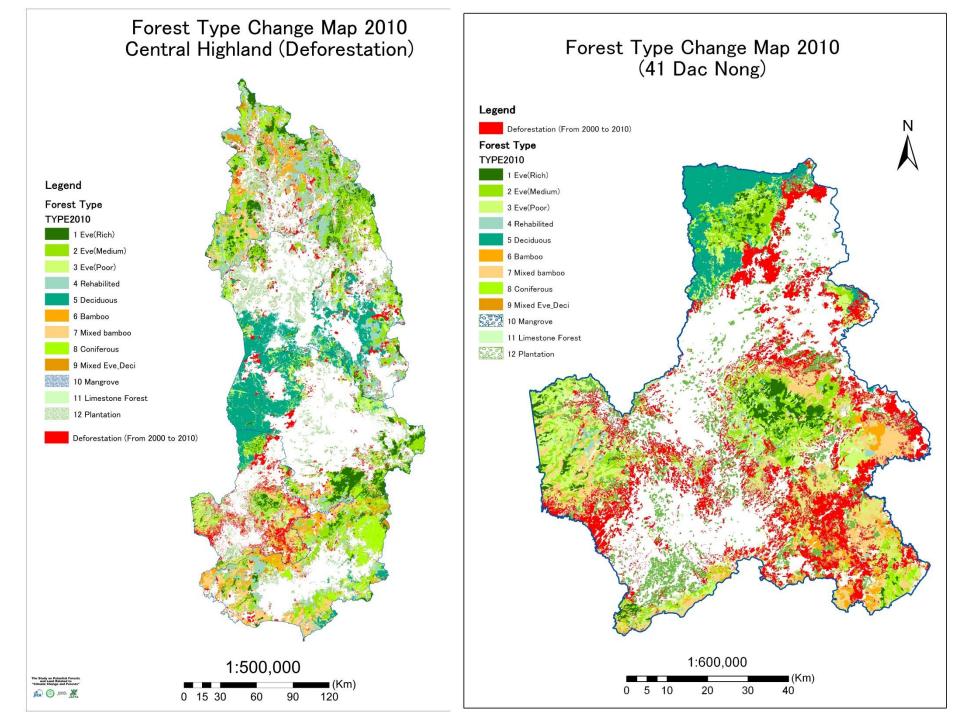
- Use of mixed investment in ER: Government progs and donor-supported projects
- In line with investment in ER in agriculture and other sectors
- Timeline: overlap between the REDD+ readiness and provision of positive incentives (ER prog); eg. expected in late 2013 by UN-REDD Vietnam Prog Phase 2

Development of rigorous RELs/FRLs

- Historical NFI data for 5 time points: 1990, 1995, 2000, 2005 and 2010 was improved by using RS imagery and data screening with support from JICA and Finland;
- Interim National REL/FRL are developed based on the improved NFI data (both forest maps and field measured data from a system of sample plots; 2015: 331MCO₂e tonnes
- Interim REL/RL sub-national level and ER Program will be developed using the NFI data and improved data (if it is needed);
- Vietnam has presented REL/RL experiences at SBSTA Expert Meeting in Nov 2011 and 36th Section of SBSTA May 2012;





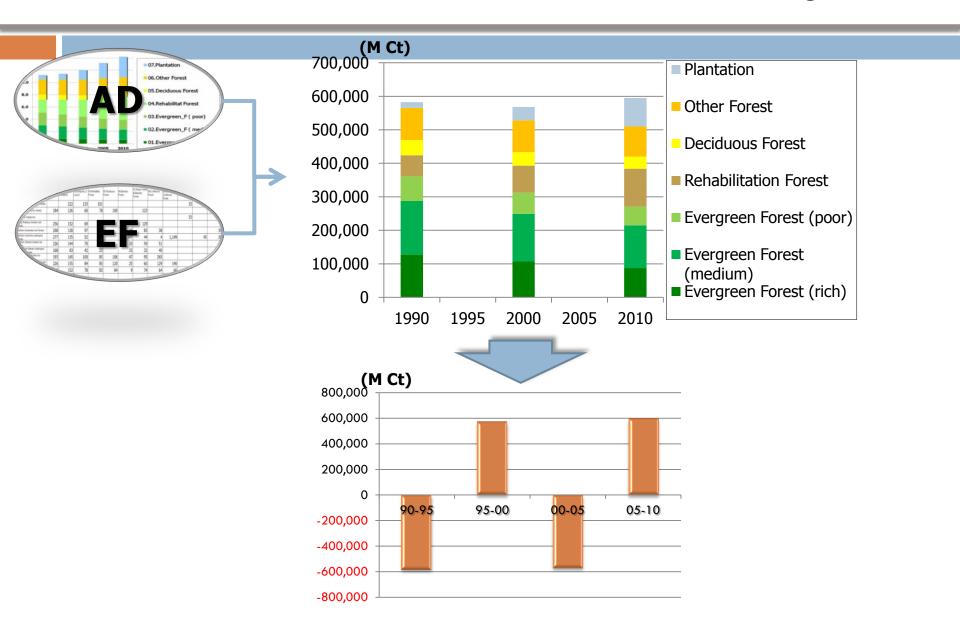


How forest area changes are detected and calculated?

Forest Type in the year 2000

		Year 2000										4							
Fore		Evergreen broadleaf forest, rich forest	Evergreen broadleaf forest, medium forest	Evergreen broadleaf forest, poor forest	Evergreen broadleaf forer rehabilitationr forest		Rembee	Mixed timber		Mixed broadloaff and Courtes 1	Mangrove forest	Limestone	Disatation	Limestone area (no forest)	BCate shCate fragmented trNON	gor		Other land	Grand Total
es	Evergreen broad of forest,	23,871						1,640	0	222	0	0	23		2,108	FUI	CSL 17	2,563	48,033
¥	rich forest Evergreen broadl af forest,			ľ í	· · ·			· · ·	0		0	0			· ·			-/	,
-1	medium forest	8,415			2,673	158		st ^{3,193}	eara	dati	on [°]	0	139		4,272	19	1,183	31,17	77,316
≤	Evergreen broadleaf forest, poor forest	1,184	22.034	53,630	11,500	1,054	1,003	7,417	9.4	8	0	0	1,460	(11,774	223	652	28,435	140,375
ס	Evergreen broad af prest, rehabilitation or st	348	3 2,734	13,117	3,893	69	886	9,182	0	229	0	0	2,55 <mark>1</mark>	. (5,539	20	255	17,14	55,971
Ø	Deciduous for st	74	324	1 718	959	47,140	0	0	0	0	0	0	5	. (5,316	45	701	14,46	69,744
5	Bamboo for	6	253	3 477	2,812	1	4,722	9,865	0	0	0	0	563		3,413	5	. 11	1,495	23,623
+	Mixed timber inclusion	357	7,373	8,990	7,321		3,558	30,794	0	1,939	0	0	1,33		Defor 5,094	est	ation	4,905	71,722
	e Coniferous forest	0) () 0) 0	0	0	0	0	0	0	0		(0 0	0	0	, i i i i i i i i i i i i i i i i i i i	0
V	a Mixed broadleaf and						0		0	0		0) ()	0	0		0
\leq	coniferous forest	FO	rest e	ennar	nceme	nt/	0	0	-	0			ľ			0		· · · ·	0
e	1 Mangrove forest	0		grov		0	0	0	0"	0	0		\sim	(0 0	0	0	P	0
=	9 Limestone forest	0		gior		0	0	0	0	0	0	0		(0 0	0	0)	0
-	⁰ Plantation	0) (47	12	0	0	0	0	0	0	0	450		79	1	21	355	965
9	Limes the area (no rojest)	0) (0 0	0 0	0	0	0	0	0	0	0	0	(0 0	0	0	0	0
066	Bare I nd, soo lan	204	1,089	9 12,322	4,987	3,175	2,263	3,242	0	131	0	0	2,579	(12,940	144	803	41,610	85,490
0	Water body	1	. 4	1 9	8	Ref	ores	statio	n 0	0	0	0	3	(21	2,321	75	248	2,718
	Residential 😡 O	0) () 8	0	0	0	0	0	0	0	0	72	(113	9	122	466	791
		10	626	1,778	3,561	233	940	1,182	0	25	0	0	1.479	(9,866	484	7,798	47,116	75,098
		34,470	65,833	3 99,371	39,600	51,943	15,411	66,527	0	2,554	0	0	10,655	(60,535		-	189,974	

Estimation of stock and change



Change in forest carbon stock 1990-2010

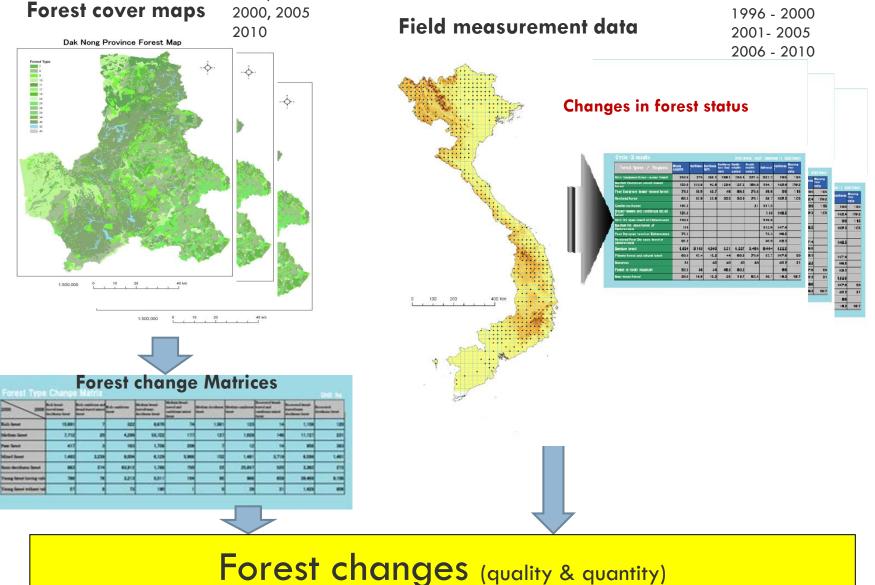
Agro-Region	Province	Carbon Stock Change (Unit:1,000CO2t)				D	(Unit:1,	000CO2t	.)	A/R (Unit:1,000CO2t)			
		'90 –	'95 –	'00 –	'05 –	'90 –	'95 –'00	'00 –	'05 –	'90 –	'95 –	'00 –	'05 –
		'95	'00	'05	'10	'95		'05	'10	'95	'00	'05	'10
1.Northwest	1 Sơn La	9,112	-4,215	12,025	10,291	-10,637	-11,073	-18,249	-18,433	19,750	6,857	30,274	28,724
	2 Hoà Bình	-1,101	-2,436	736	5,992	-6,164	-7,700	-4,869	-5,833	5,063	5,263	5,605	11,825
	3 Lai Châu	3,915	-2,003	398	16,028	-5,452	-8,258	-11,663	-7,584	9,368	6,255	12,062	23,612
	4 Điện Biên	106	-3,254	452	7,601	-5,675	-13,369	-11,590	-1,605	5,781	10,115	12,041	9,206
	Sub Total	12,032	-11,909	13,611	39,912	-27,928	-40,399	-46,371	-33,455	39,961	28,490	59,982	73,367
2.Northeast	5 Lào Cai	1,605	446	-2,208	3,683	-5,263	-9,993	-14,110	-10,530	6,868	10,439	11,903	14,213
	6 Yên Bái	1,583	3,914	-281	16,075	-4,902	-4,791	-10,252	-5,779	6,486	8,705	9,971	21,855
	7 Hà Giang	2,505	-6,579	-75	19,203	-5,502	-14,550	-11,038	-8,377	8,007	7,971	10,963	27,580
	8 Tuyên Quang	-2,689	-2,600	730	7,082	-7,712	-11,398	-9,302	-7,481	5,023	8,798	10,031	14,563
	9 Lạng Sơn	-559	375	14,931	20,184	-6,616	-2,081	-5,811	-600	6,057	2,456	20,742	20,784
	10 Bắc Giang	-1,014	-442	1,851	2,831	-1,209	-2,484	-3,882	-379	195	2,042	5,733	3,210
	11 Phú Thọ	-788	3,314	1,977	4,447	-3,578	-1,886	-2,174	-4,919	2,790	5,199	4,150	9,366
	12 Vĩnh Phúc	-746	303	60	-475	-1,248	-686	-473	-1,169	502	989	533	695
	13 Cao Bằng	802	-1,716	4,466	14,018	-3,480	-3,762	-6 ,111	-4,888	4,282	2,046	10,577	18,906
	14 Bắc Kạn	-1,078	-2,897	3,081	10,739	-4,826	-4,128	-2,370	-4,591	3,748	1,232	5,451	15,330
	15 Thái Nguyên	-194	2,809	930	6,346	-2,111	-2,681	-3,066	-2,111	1,917	5,490	3,996	8,457
	16 Quảng Ninh	-4,771	-6,332	9,858	3,172	-4,776	-10,478	-1,673	-4,312	4	4,146	11,530	7,484
	Sub Total	-5,343	-9,404	35,319	107,305	-51,221	-68,918	-70,263	-55,137	45,878	59,514	105,581	162,442
	Sub Total	844	-695	2,222	2,508	-293	-1,123	-351	-160	1,137	427	2,573	2,668
4.North Central	26 Thanh Hoá	-4,946	-4,197	12,561	-14,541	-16,682	-16,706	-12,766	-26,529	11,737	12,508	25,327	11,988
	27 Nghệ An	1,878	-937	3,911	-9,760	-21,375	-23,590	-18,628	-28,514	23,253	22,652	22,539	18,754
	28 Hà Tĩnh	-1,423	-8,157	-2,530	701	-6,298	-12,847	-9,696	-6,987	4,876	4,689	7,167	7,689
	29 Quảng Bình	1,542	-6,184	-8,920	7,005	-8,524	-14,682	-20,358	-10,833	10,066	8,498	11,438	17,839
	30 Quảng Trị	2,271	-3,514	-1,701	2,907	-3,600	-8,062	-8,357	-5,614	5,871	4,548	6,656	8,522
	31 Thừa Thiên Hu ế	-372	-1,820	314	3,026	-1,706	-5,921	-6,916	-4,812	1,334	4,101	7,230	7,838
	Sub Total	-1,049	-24,810	3,636	-10,661	-58,186	-81,807	-76,721	-83,290	57,137	56,998	80,357	72,629

Analyses of forest changes and major driving

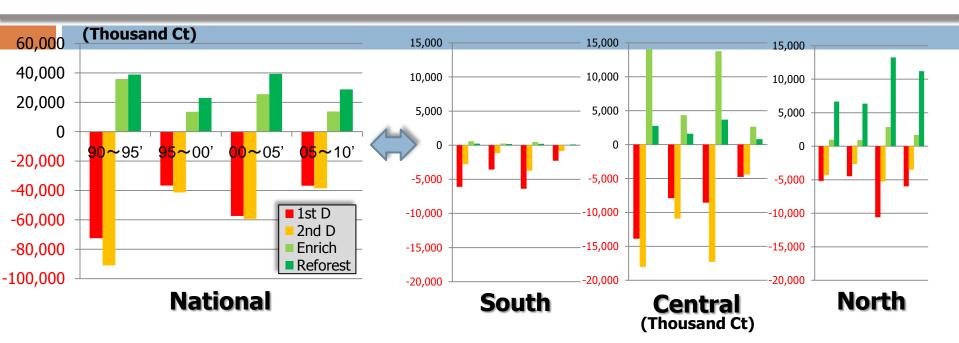
forces

1990, 1995

1990 - 1995 1996 - 2000 2001 - 2005 2006 - 2010



Development of interim REL/FRL at national and sub-national levels



REL/RL in National scale

- Closely related with national strategy
- Difficult to extrapolate forest change trends associated with driving forces

• REL/RL in Sub-national scale

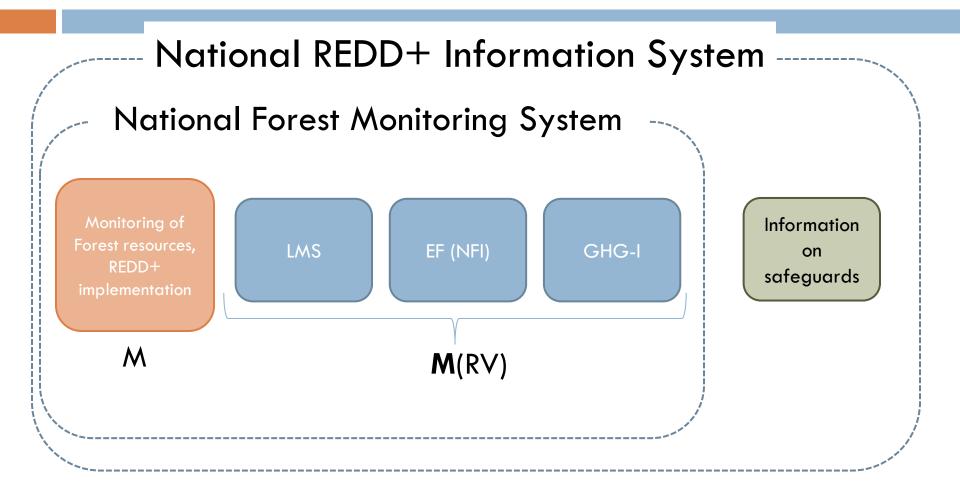
- Closely related with regional strategy and driving forces
- Easy to extrapolate forest change trends associated with driving forces

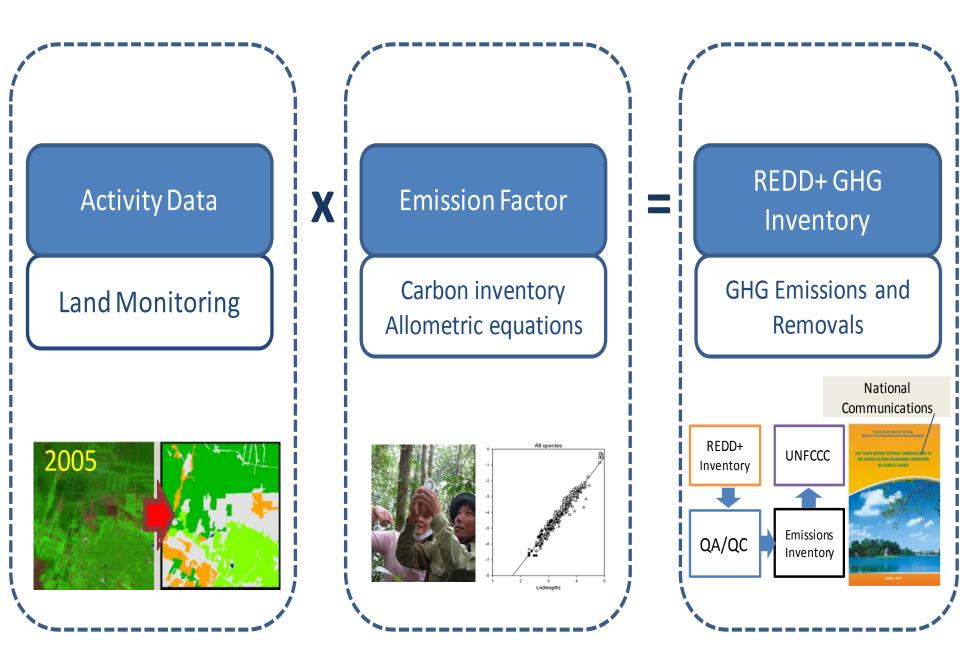
Development of transparent & effective MRV system

Shall be consistent with

- Decision 4/CP.15 (NFMS & use of IPCC GPG)
- Decision 2/CP.16 (NFMS and REL/RL)
- Decision 2/CP.17 (safeguards and REL/RL)
- □ Step-wise
- National circumstances and capacities, maximal utilization of existing national systems
- Support from international development partners

MRV Framework document





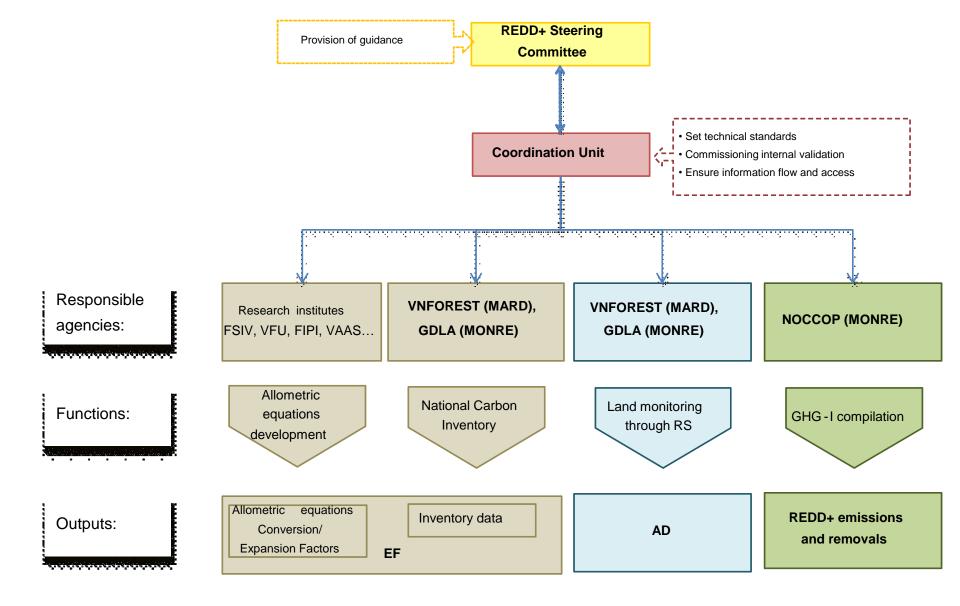
Generation of Activity Data (AD)

- Policy: Implementation of NFI is mandated by Law on Forest Protection and Development in every 5 years, and funded by Government budget
- Method: Use IPCC guidance and guidelines, as adopted or encouraged by the Conference of the Parties; Longstanding experience in using a combination of remote sensing and ground-based inventory & monitoring; Tier 2++
- Improving current NFI Program: is currently improved with the support from FAO-Finland forestry partnership Prog, UN-REDD VN. GoV funded for piloting in two REDD+ provinces (US\$ 2.5 mill.); nation-wide implementation: 2013-2015

Estimation of Emission Factor (EF)

- National Carbon Inventory (NCI) and NFI
- Development of Destructive measurement for Allometric Equations (~June/2012); AE Training workshop in Hanoi from 19-22 June 2012 (Vietnam and Indonesia);

Forest eco-regions	NE		NCC		SCC	СН	CH SE		Total #	Total	
Forest types / province	Lao Cai	Bac Kan	Ha Tinh	Nghe An	Quang Nam	Lam Dong	Binh Thuan	Ca Mau	of plots	sample trees	
Evergreen broad leaved forest	2	2	3	1	2	2	2	0	14	700	
Deciduous forest	0	0	0	0	0	1	1	0	2	100	
Bamboo forest	1	1	0	2	0	1	1	0	6	600	
Luong - Dendrocalamus barbatus	0	0	0	1	0	0	0	0	1	100	
Nua - Schizostachyum sp	0	1	0	1	0	0	0	0	2	200	
Vau - Indosasa sp.	1	0	0	0	0	0	0	0	1	100	
Lo o - Bambusa balcoa	0	0	0	0	0	1	1	0	2	200	
Total # of plots	3	3	3	3	0	4	4	0	22		
Responsible organization	NW st	ub-FIPI	VFU		TNU	RCFEE	CFIC	n.a.			



<u>Monitoring</u>

Principles

- Participatory monitoring from local to central level
- PFC is legalized by Law on FPD (Article 32)

Independent Monitoring Board (UN-REDD VN Phase 2

- Ensuring results-based actions
- Not necessarily for accounting carbon
- Benefit distribution

Parameters for monitoring & Frequency

- Various ... (e.g., area of protected/planted forests, quality of forests, rate of deforestation, ect.); Technical manual is produced
- Should be simple and practical, close linkages with result-based indicators
- MARD issued the Circular No. 20 /2012/TT-BNNPTNT to regulate the procedures for assessing the results of PFES before payment.
- **Development of FORMIS:** Finland assistance

Participatory Forest Monitoring



Designing appropriate BDSs

- Vietnam has experienced in designing and implementing numerous BDSs in forestry sector (e.g., 661 Prog, PFES)
- Started reviewing current policies and designing BDSs for REDD+ in late 2009
- National REDD+ Fund (as a part of VNFF) with participatory governance structures;
- **R-Coefficient:** take into account local circumstances, culture & safeguards; consideration of co-benefits; have close linkages with MRV;
- It is costly and difficult to evaluate the performance of and conduct payments to individual households – PFM and local disbursement via intermediaries (FC/FMBs) and local communities are potential options
- For non-carbon benefits: PFES, pilot policies on BDS in protected forests

How the safeguards are addressed?

- UNFCCC agreed elements, steps and conditions should be respected to avoidance of different interpretation of COP decisions and prejudge due to specific interest;
- Consistent with national sovereignty, legislation, circumstances and capacities, and relevant international obligations and agreements;
- Starting from reviewing current policies and instruments in comparison with COP requirements, then defining the roadmap of development (BMU, UN-REDD Vietnam, FCPF RPP, PGA initiative);
- A STGW on Safeguards is established in early 2012, co-chaired by VRO/SNV. Visit: <u>www.vietnam-redd.org</u>; http://www.snvworld.org/redd

Addressing regional leakages

1. Cooperation with Lao PDR:

- MARD Minister visited Lao in Oct and both sides agreed to develop a comprehensive cooperation program, including REDD+, FLEGT, capacity building, afforestation, forest monitoring
- MOIT takes lead in development of bilateral trading agreement, including transparent procedures for timber export and import
- A new MoU will be signed in 12th July 2012 in Hanoi

2. Cooperation with Cambodia

- •MARD minister visited Cambodia and agreed to urgently develop MoU on combating illegal logging and transportation cross border
- •MoU will be signed in signed in 27th June 2012 at ASOF meeting in HN

Thank you very much for kind attention!