

## Work plan follow up actions

Country : Vietnam

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## Rubber statistics(2010)

	Estates	Smallholdings	Total
Planted area (ha)	364,862	383,838	<b>748,700</b>
Tapping area (ha)	227,901	211,199	<b>439,100</b>
Productions (m/ton)	392,684	358,992	<b>751,676</b>
Producers (%)	48.7	51.3	<b>100</b>

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## Important rubber diseases

Disease	Pathogen
<b>Leaf disease</b>	
1. <b>Oidium Secondary Leaf Fall</b>	<i>Oidium heveae</i> Steinn.
2. Anthracnose Leaf Spot	<i>Collectotrichum gloeosporioides</i> (Penz.) Sacc.
3. Bird's Eyespot	<i>Drechslera heveae</i> (Petch) M.B. Ellis
4. Phytophthora Abnormal Leaf Fall	<i>Phytophthora botryosa</i> Chee & <i>P. palmivora</i> (Bult.) Bult.
5. <b>Corynespora Leaf Fall</b>	<i>Corynespora cassiicola</i> Berk & Curt. Wei.
<b>Stem disease</b>	
6. Pink Disease	<i>Corticium salmonicolor</i> Berk. et Br.
7. <b>Knop Gall/Stem Bleeding</b>	<i>Botrydipodia theobromae</i> Pal.
<b>Panel disease</b>	
8. Black Stripe	<i>Phytophthora botryosa</i> Chee & <i>P. palmivora</i> (Bult.) Bult.
<b>Root disease</b>	
9. Brown Root Rot	<i>Phellinus noxius</i> (Corner) G. H. Cunn

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## Available expertise on SALB

	Name	1	2	3	Organization	Contact
1	Mr. Nguyen Hai Duong	X	X	X	Retired	
2	Dr. Duong Minh Tu			X	Quarantine Pest Diagnostic Center VN	duongminhtu60@gmail.com
3	Ms. Tran Yen Chi			X	Quarantine Pest Diagnostic Center VN	yenchitran@yahoo.com
4	Mr. Phan Thanh Dung		X	X	RRIV	ptdriv@gmail.com
5	Mr. Tran Anh Pha		X	X	RRIV	pharriv@gmail.com
6	Mr. Le Mau Tuy		X	X	RRIV	lemautuy@gmail.com
7	Dr. Nguyen Anh Nghia		X	X	RRIV	anhnghia@gmail.com

- 1: Trained on SALB  
2: Exposed to SALB  
3: Attended workshop on SALB

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## Diagnostic facilities expertise on SALB

Laboratory	Containment Level	Test that can be perform	Contact Person
Central Laboratory for Plant Quarantine, 149 Ho Duc Di, Dong Da, Hanoi, Vietnam	Quarantine Level 3	Cultural & Morphological Test Serological Test Molecular Test – PCR Sequencing for DNA	Dr Duong Minh Tu, Director Tel: (84) 4 904101090 E-mail: duongminhtu60@gmail.com
PEQ1 Laboratory, Dong Ngac, Tu Liem, Hanoi, Vietnam	Quarantine Level 2	Cultural & Morphological Test Serological Test Molecular Test – PCR	Dr Nguyen Quy Duong Deputy Director Tel: (84) 4 989589477 E-mail: kdtvsnk1@vnn.vn
PEQ2 Laboratory, 28 Mac Dinh Chi, District 1, Ho Chi Minh City	Quarantine Level 2	Cultural & Morphological Test Serological Test Molecular Test – PCR	Dr Nguyen Huu Dat Director Tel: (84) 8 903775574 E-mail: kdtvsnk2@vnn.vn
Rubber Research Institute Laboratory, Ho Chi Minh City	Quarantine Level 2	Cultural & Morphological Test Serological Test Molecular Test – PCR	Mr Phan Thanh Dung Deputy Director Tel: (84) 8 918320888 E-mail: ptdriv@gmail.com

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## Past activities on SALB

- ▶ Research – plant breeding: not yet
- ▶ Training experience
  - 1 person but now retired
- ▶ Public awareness programme
  - Translated banner, leaflet, pamphlets, booklet and upload to websites of PPD ([www.ppd.gov.vn](http://www.ppd.gov.vn)) & RRIV ([www.rriv.org.vn](http://www.rriv.org.vn))
- ▶ Training programme in country
  - Training workshop for quarantine staffs (Nov 2011)
  - Internal seminars for RRIV officers (2004, 2007)
- ▶ Availability of trainers and training material(s)
  - 3 people (Dr Tu, Mr. Dung, Mr. Pha)
  - Video from IRRDB, reference materials from FAO.

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## Specific Training Programme On SALB

- ▶ Conducted previous by PPD and RRIV

Trainer	Place	No of Trainee	Year
Dr Duong Minh Tu	PPD (Ha Noi)	15	2011
Mr. Phan Thanh Dung	RRIV (Binh Duong)	25	2004
Mr. Tran Anh Pha	RRIV (Binh Duong)	25	2007

- ▶ Plan on Training Programme:
  - Seminars for officers and staffs PPD and RRIV
  - Training workshops for quarantine staffs and technical staffs of VRG's companies.
  - Seminars for smallholders

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## Legislation and Law

- ▶ SALB is listed on the Quarantine Pest List (Group I)
- ▶ Hevea planting materials
  - Import permit required in advance from Plant Protection Department (PPD)
  - Phytosanitary certificate (PC) is required
  - Inspection at point entry
  - Subject to Post-Entry Quarantine
- ▶ Hevea plant product
  - PC is required
  - Inspection at point of entry
- ▶ Non-Hevea planting materials
  - Import Permit required in advance from PPD
  - PC is required
  - Inspection at point of entry
  - Subject to Post-Entry Quarantine
- ▶ Soil
  - Prohibited
- ▶ Passengers from SALB area/Container
  - No regulation

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## Recommendation

- ▶ Collaboration to other organizations such as IRRDB, ANRPC, Michelin...
- ▶ Develop a quick method for diagnostic SALB
- ▶ Develop a treatment protocol for big containers.

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