

List and Directory of Participants

No	Name	Gender	Designation/ office	Email address	Mobile phone
1	Trần Văn Tương	M	Ag. Ext. Center: Quang Nam	knklquangnam@gmail.com	913438239
2	Nguyễn Hữu Phước	M	DARD: Quang Nam	huuphuocqna@gmail.com	905060109
3	Võ Văn Nghi	M	Ag. Ext. Center: Quang Nam	nghikngn@gmail.com	
4	Lưu Thị Tường	F	Hương Trung Việt Company.	huongvietrung@gmail.com	902832742
5	Trần Quang Phước	M	Ag. Ext. Center: Thua Thien - Hue	tquangphuockn@yahoo.com.vn	914066443
6	Trần Chí Lynch	M	Huy Phat Company.	lynhchi@gmail.com	982522430
7	Nguyễn Thị Thùy Dương	F	Ag. Eng. Center Thua Thien - Hue	thuyduong1083@yahoo.com	982206737
8	Lê Thị Ngọc Sương	F	DARD: Thua Thien Hue	ngsuong_ptnthue@gmail.com	975544282
9	Hoàng Công Thành	M	Cong Thanh Company.		905364801
10	Võ Hồng	M	Phu Hoa Cooperative, Hue		1694401945
11	Nguyễn Thanh Vũ	M	Seed Processing Co. Thua Thien Hue		987243127
12	Lê Văn Luận	M	HUAF	luan.lv@gmail.com	914114488
13	Phùng Thăng Long	M	HUAF	huaf@dnq.vnn.vn	
14	Nguyễn Minh Hiếu	M	HUAF	hieu55@vnn.vn	914007012
15	Trần Văn Minh	M	HUAF	tvminh52@vnn.vn	913425242
16	Nguyễn Quốc Sinh	M	HUAF	nguyenquocsinh@gmail.com	905809292
17	Nguyễn Thanh Long	M	HUAF	lonqn1@gmail.com	914114861
18	Đỗ Minh Cường	M	HUAF	docuong72@gmail.com	986349252
19	Nguyễn Thị Ngọc	F	HUAF	ngngoc05@gmail.com	987366956
20	Lê Thanh Long	M	HUAF	ltlonqn1@gmail.com	905151415
21	Lê Tiến Dũng	M	HUAF	knhdnhl@gmail.com	54.3525544
22	Lê Hồng Viễn	M	Ag. Ext. Center: Quang Binh	vienknklquangbinh@yahoo.com	982277878
23	Văn Thị Thu Mai	F	Ag. Ext. Center: Quang Binh	vienknklquangbinh@yahoo.com	
24	Hồ Khắc Minh	M	DARD, Quang Binh	hkminhqb@yahoo.com.vn	982576001
25	Võ Văn Khinh	M	Thuong Phong Cooperative, Quang Binh		905688746
26	Lê Đình Doãn	M	Dept. of Science and Technology, Ha Tinh	ledinhdoan2005@gmail.com	906119076
27	Nguyễn Hữu Ngọc	M	Ag. Ext. Center, Ha Tinh	huungocknknht@gmail.com	912999388
28	Nguyễn Thị Thu Vân	F	Ag. Ext. Center, Ha Tinh	thuvanht@yahoo.com	
29	Nguyễn Văn Lập	M	DARD: Nghe An	lapsnna@yahoo.com	912249069
30	Hoàng Minh Tâm	M	Agricultural Science Institute for Southern Coastal Central of Vietnam (Binh Dinh province)	hoangminhtam@fpt.vn	912051916
31	Nguyen Trung Hậu	M	Ag. Ext. Center, Quang Tri	phuquocknkn@gmail.com	914.197927
32	Trần Thanh Hiến	M	DARD, Quang Tri	phongtrongtrotqt@gmail.com	0975.436.146
33	Lê Mậu Hoài	M	Bich La Cooperative, Quang tri	hoailemau@yahoo.com.vn	0984570968)
34	Lê Văn Việt	M	Ag. Ext. Center, Quang Ngai	knquangngai@yahoo.com	905732195
35	Lê Văn Dương	M	DARD, Quang Ngai	duongsnn@gmail.com	
Support/Administrative					
1	Le Thi Quynh Huong	F	Staff/HUAF	qhuongckn@gmail.com	905386882
2	Nguyen Hien Trang	F	Lecture/HUAF	n_htrang@yahoo.com	916873789
3	Nguyen Thi Thuy Tien	F	Lecture/HUAF	thuytienscn@gmail.com	978222236
Facilitator					
1	Nguyen Quang Lich	M	Lecture/HUAF	ngqlich@gmail.com	935757273
2	Do Thi Bich Thuy	F	Lecture/HUAF	Chieuthuy64@yahoo.com	914091340
Coordinator from IRRI and NLU					
1	Tonya Schuetz	F	IRRI	t.schuetz@cqi.org	
2	Rica Joy Buscano Flor	F	IRRI	r.flor@cqi.org	
3	Phan Hiếu Hiền	M	NLU	phien1946@yahoo.com	913127481
4	Bùi Ngọc Hùng	M	NLU	buingochung@gmail.com	913609635

Participants' grouping

Government Agencies 1 (Group 1)

- 1 Tran Quang Phuoc
- 2 Le Van Duong
- 3 Hoang Trung Hau
- 4 Le Dinh Doan
- 5 Ho Khac Minh
- 6 Tran Van Tuong
- 7 Nguyen Huu Phuoc
- 8 Vo Van Nghi

Government Agencies 2 (Group 2)

- 1 Le Hong Vien
- 2 Van Thi Thu Mai
- 3 Nguyen Huu Ngoc
- 4 Nguyen Van Lap
- 5 Le Van Viet
- 6 Tran Thanh Hien
- 7 Nguyen Thi Tuyet Suong
- 8 Nguyen Thi Thu Van

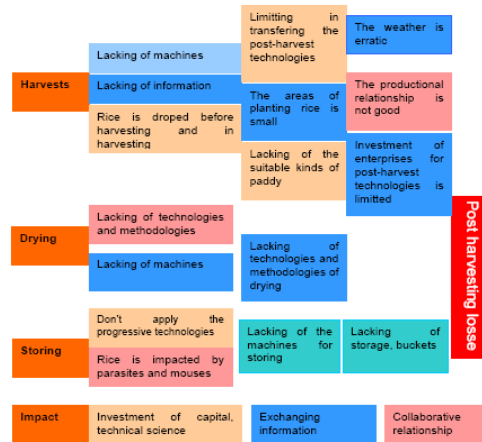
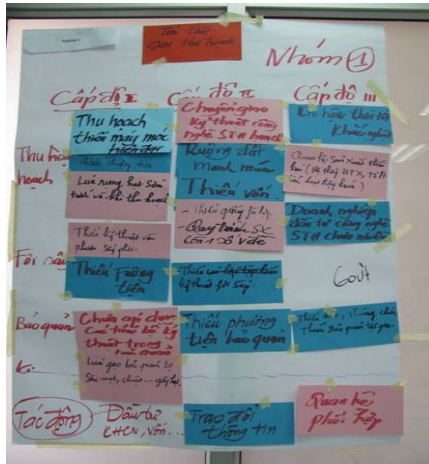
Farmers and Private Sector (Group 3)

- 1 Nguyen Cong Thanh
- 2 Tran Chi Lynh
- 3 Le Mau Hoai
- 4 Vo Van Khinh
- 5 Vo Hong
- 6 Nguyen Thanh Vu
- 7 Luu Thi Tuong
- 8 Dinh Vuong Hung

Researchers (Group 4)

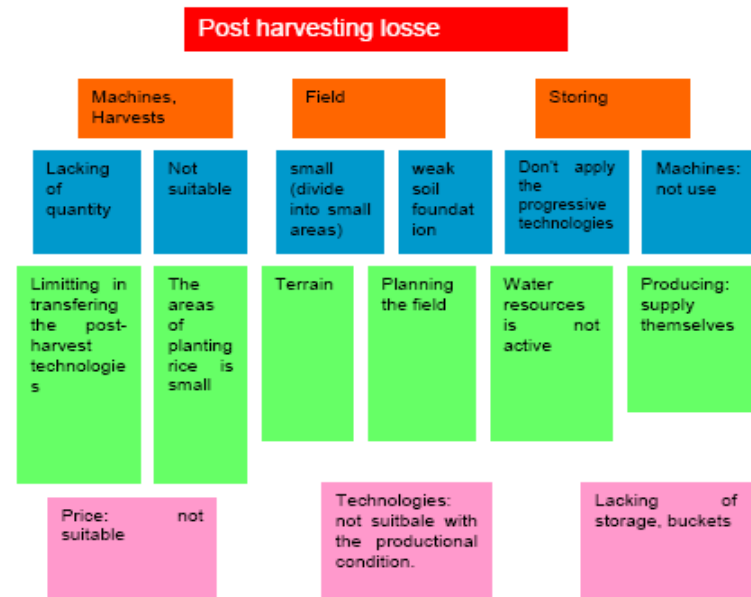
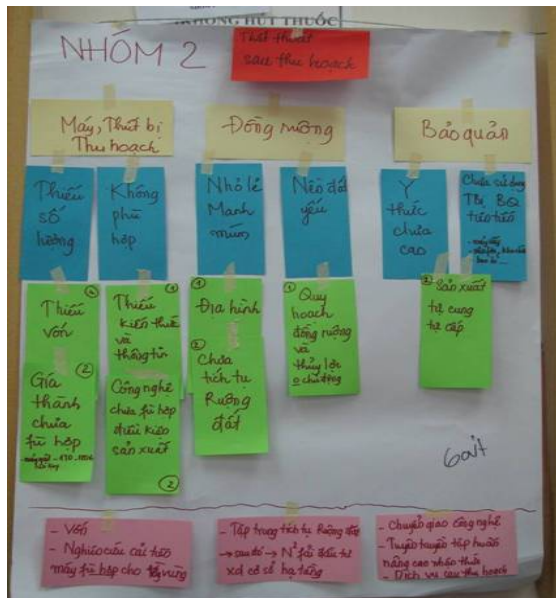
- 1 Le Thanh Long
- 2 Nguyen Thanh Long
- 3 Hoang Minh Tam
- 4 Nguyen Thi Thuy Duong
- 5 Do Minh Cuong
- 6 Nguyen Thi Ngoc
- 7 Nguyen Quoc Sinh
- 8 Le Van Luan

Problem Tree from Government Agencies 1 (Group 1)



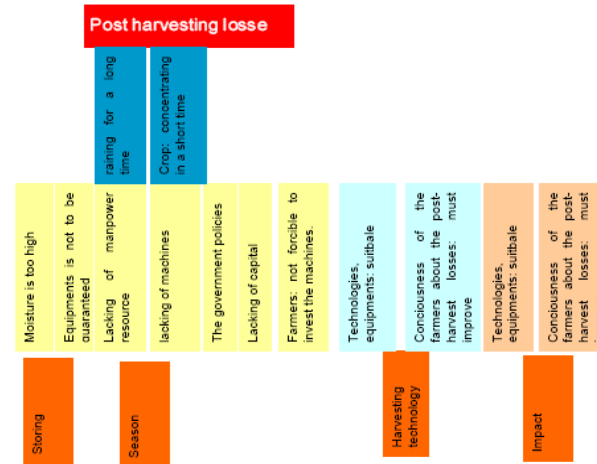
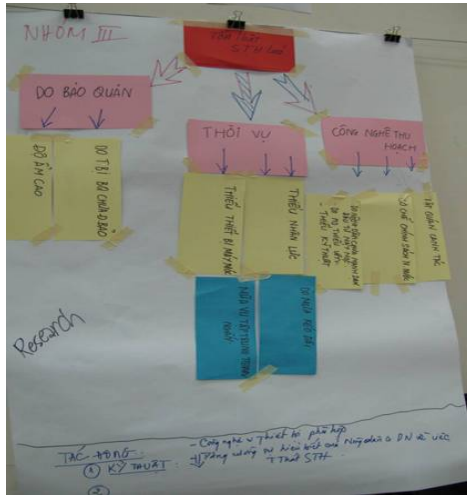
	Level 1	Level 2	Level 3
Harvesting	<ul style="list-style-type: none"> - Lacking of: + machines + informations - Rice is dropped before harvesting and in harvesting 	<ul style="list-style-type: none"> - Limiting in transferring the post-harvest technologies - The areas of planting rice is small - Lacking of the suitable kinds of paddy 	<ul style="list-style-type: none"> - The weather is erratic - The production relationship is not good. - The investment of enterprises about the post-harvest technologies is not good.
Drying	<ul style="list-style-type: none"> - Lacking of: + technologies and methodologies of drying + machines 	<ul style="list-style-type: none"> - Lacking of: + technologies and methodologies of drying 	<ul style="list-style-type: none"> - Lacking of: + technologies and methodologies of drying
Storing	<ul style="list-style-type: none"> - Don't apply the progressive technologies in drying - Rice is impacted by parasites and mouses. 	<ul style="list-style-type: none"> - Lacking of the machines for storing 	<ul style="list-style-type: none"> - Lacking of storage, buckets
Impact	<ul style="list-style-type: none"> - Investment of capital, technical science 	<ul style="list-style-type: none"> - Exchanging information 	<ul style="list-style-type: none"> - Collaborative relationship

Problem Tree Government Agencies 2 (Group 2)



	Level 1	Level 2	Level 3
Machines, Harvesting	<ul style="list-style-type: none"> - Lacking of quantity - Not suitable 	<ul style="list-style-type: none"> - Lacking of capital. - Lacking of information 	<ul style="list-style-type: none"> - Price: not suitable
Field	<ul style="list-style-type: none"> - small (divide into small areas) - weak soil foundation 	<ul style="list-style-type: none"> - Terrain - Planning the field - Water resources: not active 	<ul style="list-style-type: none"> - Technologies: not suitable with the production condition.
Storing	<ul style="list-style-type: none"> - Understanding : not good - Machines: not use 	<ul style="list-style-type: none"> - Producing: supply themselves 	
Impact	<ul style="list-style-type: none"> - Capital - Innovative research (machines) 	<ul style="list-style-type: none"> - Field: making larger - Government: invest in building infrastructure. 	<ul style="list-style-type: none"> - Handing over the technologies - Propagating the training: improve the knowledge. - Post-harvest services: improving

Problem Tree Farmers and Private Sector (Group 3)



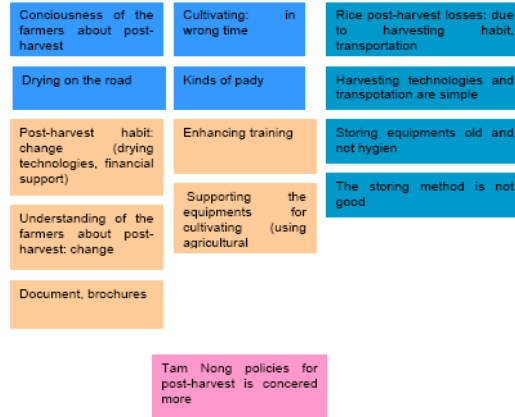
	Level 1	Level 2	Level 3
Storing	<ul style="list-style-type: none"> - Moisture: high - Equipments: not to be guaranteed 		
Crop	<ul style="list-style-type: none"> -Lacking of manpower resource - lacking of machines 	<ul style="list-style-type: none"> - raining for a long time - Crop: concentrating in a short time 	
Harvesting technology	<ul style="list-style-type: none"> - Cultivation habit - The government policies - Lacking of capital - Lacking of technologies - Farmers: not forcible to invest the machines. 		
Impact	<ul style="list-style-type: none"> - Technologies, equipments: suitable - Consciousness of the farmers about the post-harvest losses: must improve 		

Problem Tree Research Group (Group 4)



Post harvesting losse

Habit of farmer (lagging of habit)



	Level 1	Level 2	Level 3
Storing	<ul style="list-style-type: none"> - Consciousness of the farmers about post-harvest. - Drying on the road 	<ul style="list-style-type: none"> - Post-harvest habit: change (drying technologies, financial support). - Understanding of the farmers about post-harvest: change. - Document, brochures 	<ul style="list-style-type: none"> - Storing equipments: old and not hygien, not good
Crop	<ul style="list-style-type: none"> -Cultivating: in wrong time - Kinds of paddy - Looking after the crop: not good 	<ul style="list-style-type: none"> - Enhancing training - Supporting the equipments for cultivating (using agricultural machines) 	Harvesting technologies and transportation: simple
Harvesting technology	<ul style="list-style-type: none"> - Rice post-harvest losses: due to harvesting habit, transportation - Harvesting technologies and transportation: simple 		- Supporting harvesting machines.
Impact	<ul style="list-style-type: none"> - Tam Nong policies for post-harvest is concered more 		

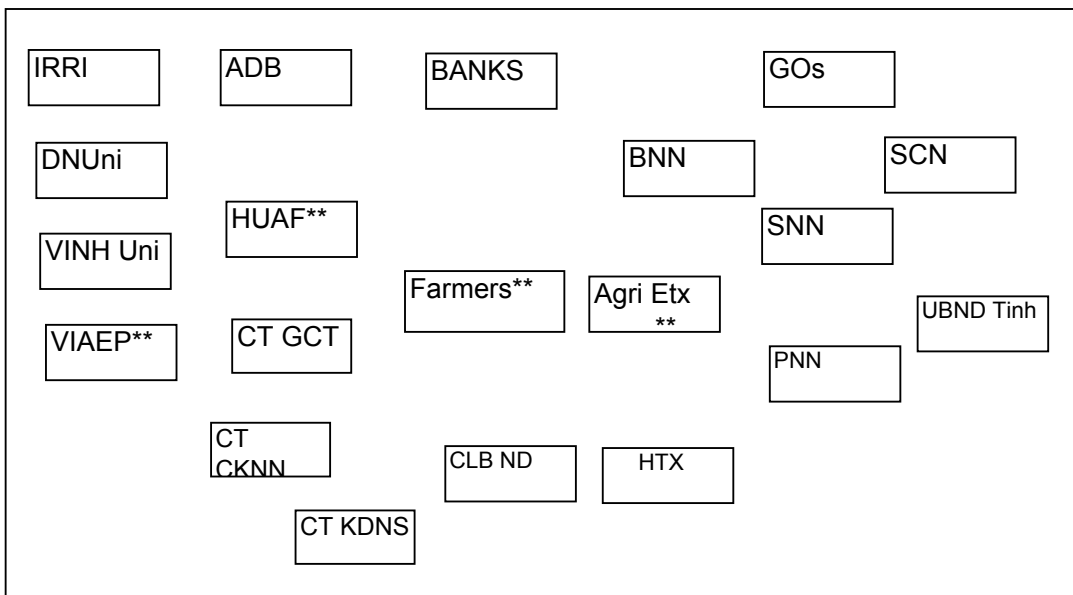
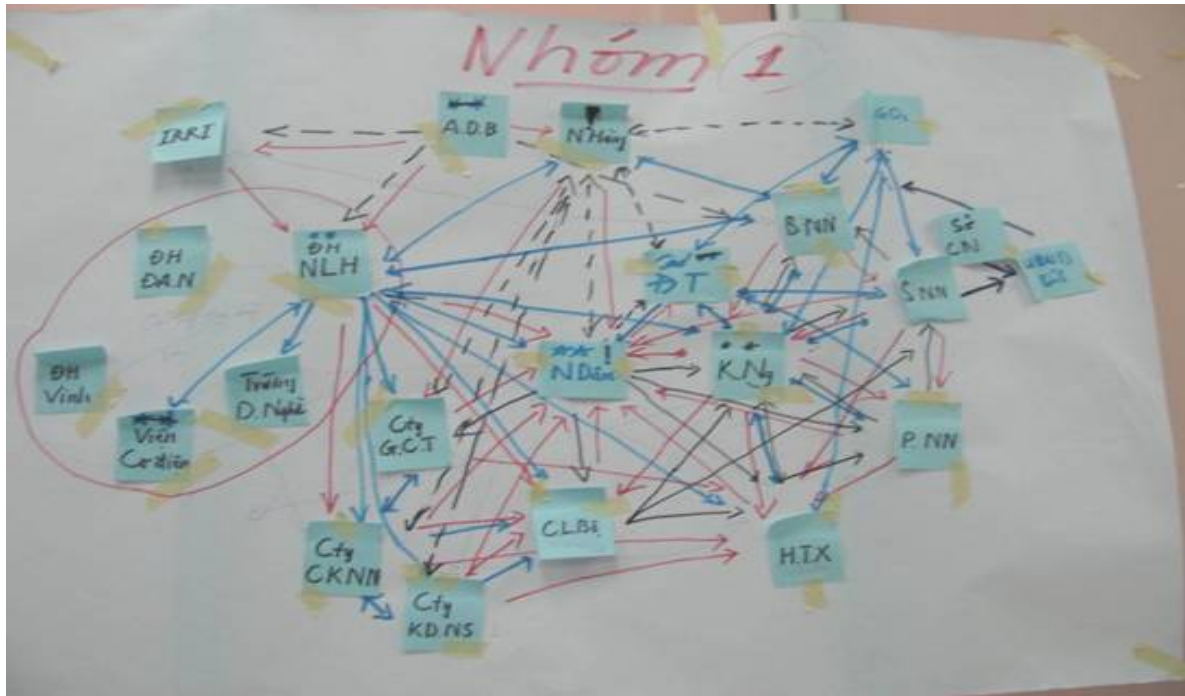
Vision	Government I (Group 1)	Government II (Group 2)	Farmers+ priv. Sector (Group 3)	Researchers (Group 4)
What are the next users doing differently?	- Universities, Institutes: researching the affordable machines.	-Universities, research Institutes strengthen researching and transfer technologies in PH	-Universities, Institutes: researching	-Universities, Institutes: researching the affordable machines.
How are men benefiting?	- Agricultural extension:	-Agri. Extension systems improve their knowledge and handle the PH chain.	-Agricultural extension: Handing over	-Agricultural extension:
How are women benefiting?	+ Broadcasting to support technologies + Developing models. - Scientists: + Putting forward the concrete measures in order to reduce the post-harvest losses + Researching, handing over the improvement of technologies. - Enterprises: + Producing rice (planning, holding productional process) + Processing: buying the products with suitable price + Supplying the suitable equipments	-Agri. machinery manufacturers improve their technologies for -Agri. service providers (harvesting, drying, processing, purchasing, etc.) enhance activities suitably with state -Developing and scaling up the progressive production models.	- Enterprises: applying.	+ Putting forward the supporting policies + Training for handing over technologies, developing models. - Enterprises: supporting services, manufacturing the suitable machines
How are project outputs disseminating (scaling out)?	-Develop the locally showing models - Going for a sightseeing - Spreading information	-Supporting the finance Managing and supervising Training & showing PH tech. for farmers	-Develop the showing models -Spreading, Broadcasting -Activities of community groups	- Develop the showing models - Going for a sightseeing, evaluating, scaling up - Spreading information

<p>What political support is nurturing this spread (scaling up)</p>	<ul style="list-style-type: none"> - <i>Developing the policies in order to support the capital for the farmers</i> - <i>Supporting the productional area, expanding the factory</i> - <i>Training</i> - <i>Supporting the development plans</i> - <i>Ensuring the post-selling services</i> 	<ul style="list-style-type: none"> - <i>Putting forward the policies</i> <i>Strengthening extension activities</i> 	<ul style="list-style-type: none"> - <i>Supporting capital, technologies, land</i> 	<ul style="list-style-type: none"> - <i>The policy of preferential capital borrowing, developing the showing models, supporting the finance to go for a sightseeing</i>
<p>What are the end users doing differently?</p>	<ul style="list-style-type: none"> - <i>Applying the technologies during the harvesting process.</i> 	<ul style="list-style-type: none"> - <i>Carrying out the project</i> 	<ul style="list-style-type: none"> - <i>Improve labour capacity, knowledge</i> 	<ul style="list-style-type: none"> - <i>Limiting the losses, increasing the income, improving the conciousness</i>
<p>How are they benefiting? Famers</p>	<ul style="list-style-type: none"> - <i>Improving the economic effectivity.</i> - <i>Investing machines (harvester, drying machine, threshing machine, means of transport, storing machines, storage)</i> 	<ul style="list-style-type: none"> - <i>Enjoying revenue from the project:</i> <i>Having the progressive post-harvest technologies</i> <i>Having knowledge of post-harvest technology</i> <i>Improving the income from the rice.</i> 	<ul style="list-style-type: none"> - <i>Improve income.</i> 	<ul style="list-style-type: none"> - <i>Improving the environment, the working conditions</i> - <i>Improving the position of the farmers in society.</i>

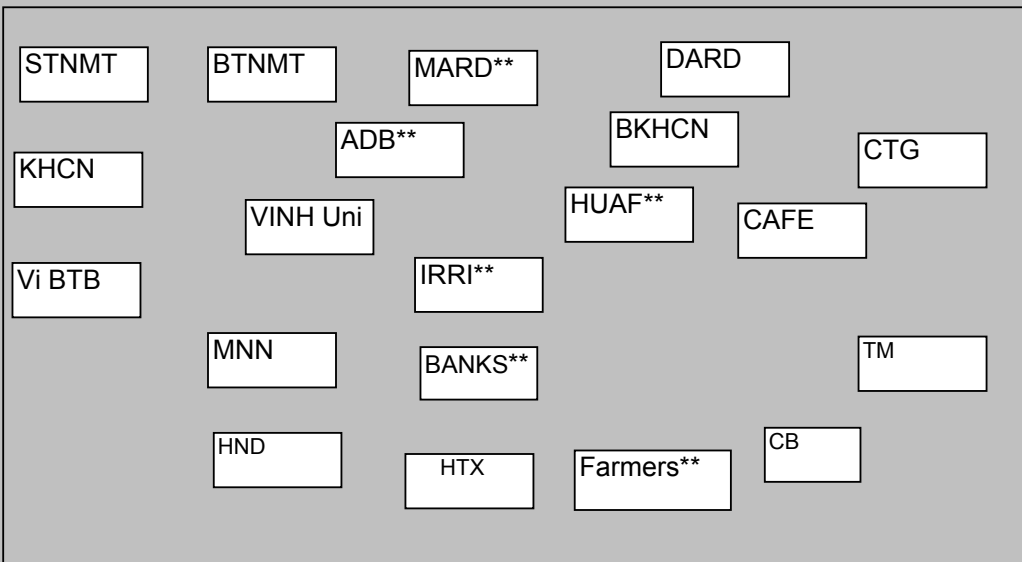
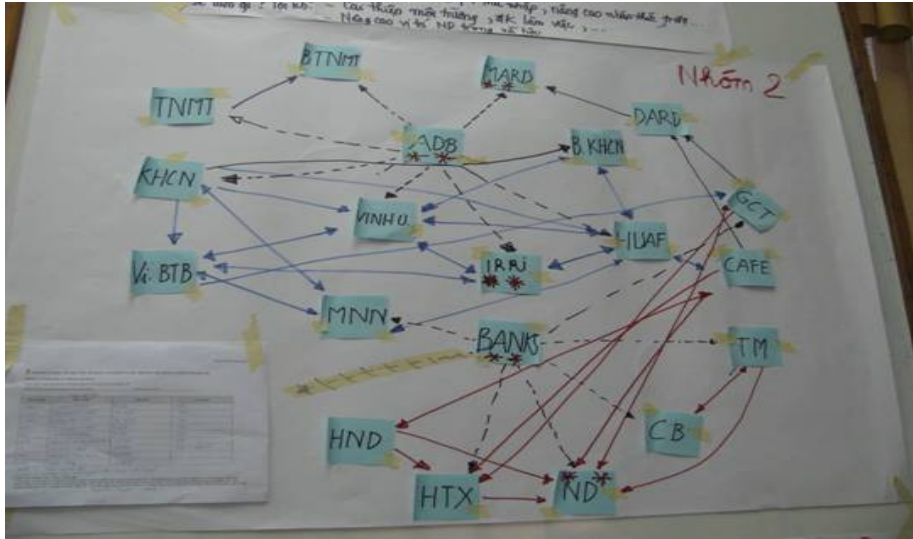
Abbreviations and terms used in network maps

Acronym	Full Name
GROUP I (Government Agencies Group 1)	
NGOs	NON-GOVERNMENT ORGANIZATIONS
BNN	MINISTRY OF AGRICULTURE
SNN	DEPARTMENT OF AGRICULTURE AND RURAL DEVELOPMENT
UBND TỈNH	PEOPLE COMMITTEE PROVINCE
PNN	DEPARTMENT OF AGRICULTURE
HTX	COOPERATIVE
CÁC ĐT	UNIONS
ND	FARMER
CLB ND	FARMER CLUB
CTY CKNN	AGRICULTURAL ENGINEERING COMPANY
CTY GCT	SEEDS COMPANY
ĐHNLH	HUE UNIVERSITY OF AGRICULTURAL AND FORESTRY
ĐH VINH	VINH UNIVERSITY
ĐH DAN	DA NANG UNIVERSITY
GROUP II (Government Agencies Group 2)	
HUAF	HUE UNIVERSITY OF AGRICULTURAL AND FORESTRY
VINHU	VINH UNIVERSITY
UBND TỈNH	AGRICULTURAL EXTENSION AND FISHERY CENTRE
GCT	SEEDS COMPANY
MNN	MACHINE PRODUCING COMPANY
CB	PROCESSING ENTERPRISE
TM	CONSUMING ENTERPRISE
ND	FARMER
HND	FARMER CLUB
HTX	AGRICULTURAL COOPERATIVE
MARD	MINISTRY OF AGRICULTURAL AND RURAL DEVELOPMENT
KHCN	DEPARTMENT OF SCIENCE TECHNOLOGY
TNMT	DEPARTMENT OF ENVIRONMENT AND RESOURCES
GROUP III (Farmers/Private Sect)	
ADB	ASIAN DEVELOPMENT BANK
TW	GOVERNMENT
UBND TỈNH	PEOPLE COMMITTEE PROVINCE
TT KN	AGRICULTURAL EXTENSION CENTER
SNN&PTNT	DARD (DEPARTMENT OF AGRICULTURE AND RURAL DEVELOPMENT)
IRRI	INTERNATIONAL RICE RESEARCH INSTITUTE
UBND HUYỆN	PEOPLE COMMITTEE DISTRICT
PNN	ARGRICULTURAL DEPARTMENT
UBND XÃ	PEOPLE COMMITTEE VILLAGE
TKN	AGRICULTURAL EXTENSION STATION
BANK	BANK
CTY GIỐNG	SEEDS COMPANY
DNCBNS	AGRICULTURAL PRODUCT BUSINESS
CTY HYFACO	HYFACO COMPANY
CTY NNC	NNC COMPANY
HTX SXNN	COOPERATIVE OF AGRICULTURAL PRODUCT
HỘ ND	FARMER HOUSEHOLD
HUAF	HUE UNIVERSITY OF AGRICULTURAL AND FORESTRY
MARD	MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT
GROUP IV (Research Group)	
ADB & BANKS	ASIAN DEVELOPMENT BANK & BANKS
TT KNKC	AGRICULTURAL EXTENSION AND INDUSTRY CENTER
IRRI	INTERNATIONAL RICE RESEARCH INSTITUTE
DOANH NGHIỆP	BUSINESS
CÁC SỞ, PHÒNG CẤP HUYỆN	DEPARTMENTS (DISTRICT)
TT GIỐNG	SEEDS CENTER
CHÍNH QUYỀN	GOVERNMENT
ĐH HUẾ	HUE UNIVERSITY
ND - HTX	FARMERS - COOPERATIVE
VIỆN NGHIÊN CỨU	RESEARCH INSTITUTE
TỔ CHỨC CHÍNH TRỊ XÃ HỘI	COMMUNITICAL AND POLITICAL ORGANIZATION

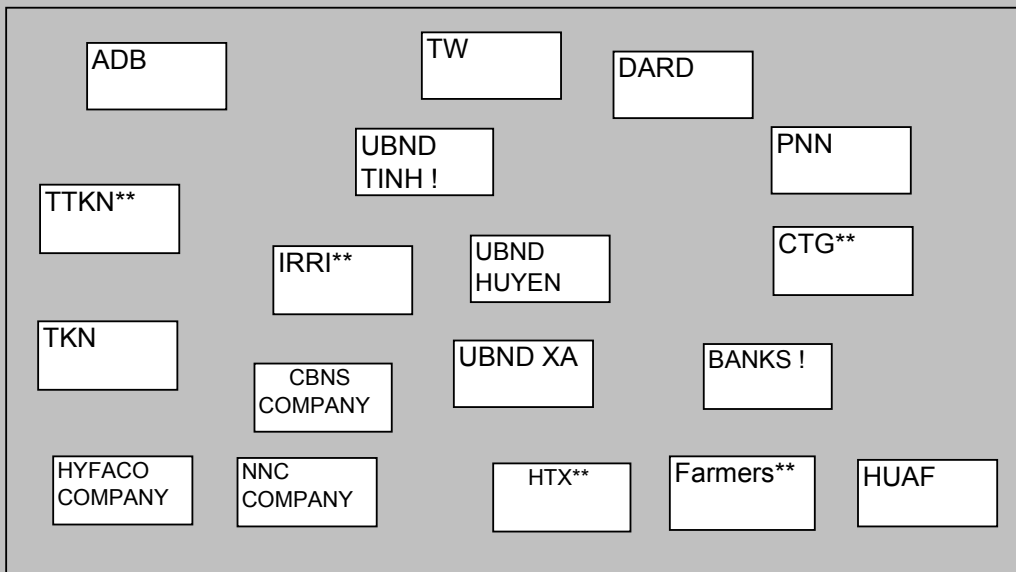
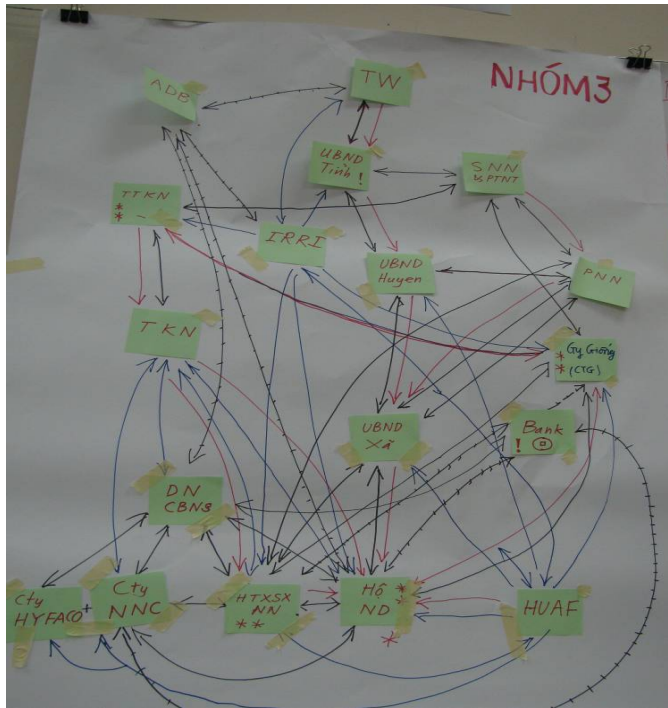
Group1 Network Map



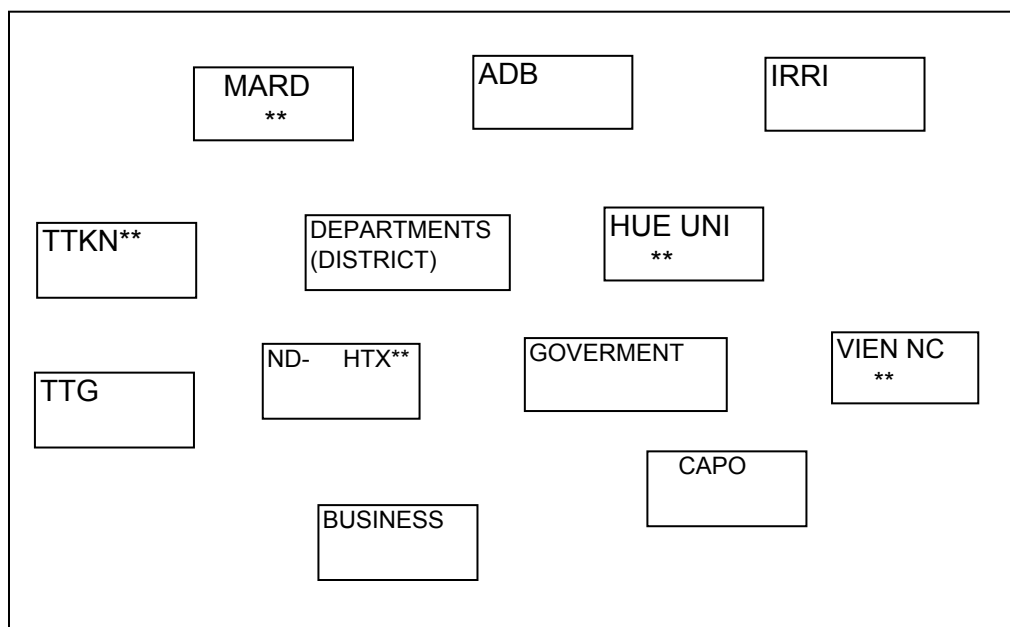
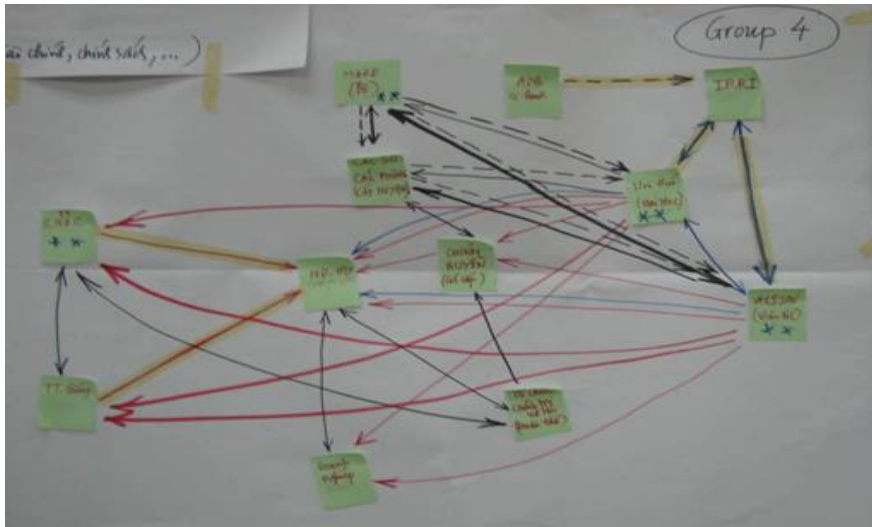
Group2 Network Map



Group3 Network Map



Group4 Network Map



HUE combined OLM

Who will change?	What is changed?	Change in KAS	Strategies to bring about these changes in KAS & practice?
Farmers	Using means of harvesting and preserving process. (I, II, IV)	Know how to apply the new technology, equipment and machine. (I, II, III, IV)	Training (I, III, IV)
	The habit of cultivation and post-harvest (III, IV)	Understanding the vital role of application in mechanization (II)	Develop the showing models (machines, drying ground, storage, harvester, drying machines, seeds producing) (I, III, IV)
	Change understanding (III)	Understanding and applying the mass value of agricultural produce. (I, IV)	Broadcasting (brochures, workshop) (I, II, IV)
	Increasing income (I, IV)	Increase the production scale. (III)	Support the capital in order to buy machines, preservation equipment (I, II, III) Survey the standard and effect model. (II, IV) Do the contract with the enterprises (III). Gather up the small fields in order to form large fields (III). Carry on close business in rice (in South regions and in Nghe An) (IV)
Enterprises	Changing in business method (I,III)	Guarantee the equal benefit of contract. Tend the market (I,III)	Support the borrowing capital, Carry on close business in rice (in South regions and in Nghe An) (I, IV).
	Technology and equipment in process (II,III)	Innovating technology suitable for the need of market. (I,II,III)	Invest in changing the technologies. (I, III)
		Raising the capacity of supplied services. (I)	Develop the fame of product for the production regions. (III) Give the enterprises opportunity to learn from other enterprises. (I)
Science research institutes,	Strengthening the connectivity ability and science research. (II, IV).	Widening the collaboration with the domestic and international organizations.(II,IV)	Combine with the local region in the field of post-harvest. (II, IV)
	Strengthening the transformation and the application. (II, IV)	Raising knowledge in practice (I)	Develop the post-harvest network (build a website to update daily information).(IV)
	Improving professional knowledge. (I, II)	Being enthusiastic, getting the actual need. (I)	Identify the science research target which is suitable with the local region. (III, IV)
	Changing the science research's target. (IV)		Change the organization structure, raise the quality of science research (in post-harvest) . (I, IV)
	Changing the organization structure. (IV)		Building the connectivity amongst farmers, researchers and enterprises through the workshop, training and platform. (II) Support the finance in organizing the study from the domestic and international organization.(I, IV). Put forward the policies to the ministry. (IV) Government must have the policies in order to support, encourage researchers in approaching the progressive science technologies. (II)
Manager	Forming the suitable policies (II)	Changing in management methodology. (II)	Raising the capacity, training the managers who are good at professional knowledge, the post-harvest technologies and management skills. (I, II)
	Improving professional knowledge. (I)	Strengthening the relationship amongst researchers, manufacturers and farmers.(II)	Policies of finance to support the managers.(I)
			Develop the models à Scaling up. (I)
Manufacturer	Research, invent and improve the suitable machines (III)	Choose inventing the sort of the machines to mechanize and process rice. (III)	Government support the finance to develop the technologies (II, III)
	Catch the need of farmers (III)	Marketing the product and the price. (II, III).	Manufacture the machines with suitable price. (III)
		Tend the need of the market (II).	Give the enterprises opportunity to approach the farmers to manufacture the suitable machines with suitable price. (II)
		Approaching the progressive technologies. (II).	Training in order to improve the understanding to apply the progressive science technologies (II) Organize the workshops, showing models about the post-harvest machines.. (III)

Group 1 Outcome Logic Model

Actors	Change in practice	Change in KAS to support changes	Strategies to bring about these changes in KAS & practice
Farmers	<ul style="list-style-type: none"> - Using means of harvesting and preserving process. - Increasing income 	<ul style="list-style-type: none"> - Improving understanding and increasing production level. - skillfull - sensitive, positive 	<ul style="list-style-type: none"> - Training - Develop the showing models (machines, drying ground, storage, harvester, drying machines) - Broadcasting (brochures, workshop) - Approching the market - Support the capital for the farmers
Researchers	<ul style="list-style-type: none"> - Understanding - Improving professional knowledge. - Increasing income 	<ul style="list-style-type: none"> - Raising knowledge in practice - Being enthusiatic, getting the actual need. 	<ul style="list-style-type: none"> - Support the borrowing capital - Invest in changing the technologies. - Give the enterprises oppourtunity to learn from other enterprises. - Give the enterprises oppourtunity to approach the market.
Enterprises	<ul style="list-style-type: none"> - Changing in business method - Increasing effect 	<ul style="list-style-type: none"> - Innovating technologyà suitable for the need of market. - Raising the capacity of supplied services. 	<ul style="list-style-type: none"> - Support the finance to invest the research equipments - Support the finance to serve the research. - Organize the workshops. - Support the finance in organizing the study from the domestic and international organization.
Managers	<ul style="list-style-type: none"> - Forming the suitable policies 	<ul style="list-style-type: none"> - Raising knowledge in practice - Being enthusiatic, getting the actual need. 	<ul style="list-style-type: none"> - Raising the capacity - Policies of finance to support the managers. - Develop the models à Scaling up.

Group 2 Outcome Logic Model

Actors	Change in practice	Change in KAS to support changes	Strategies to bring about these changes in KAS & practice
Farmers	<ul style="list-style-type: none"> - Harvesting by harvester combine machine. - Storing by suitable equipments 	<ul style="list-style-type: none"> - Understanding the operation, utilization and maintenance - Understanding the vital role of application in mechanization 	<ul style="list-style-type: none"> - Understanding the operation, utilization and maintenance - Understanding the vital role of application in mechanization
Manufacturers	<ul style="list-style-type: none"> - Producing the suitable equipments with the productional condition. 	<ul style="list-style-type: none"> - Approaching the progressive technologies. - Concerning more about the products (price, kind of machines). 	<ul style="list-style-type: none"> - Approaching the progressive technologies. - Concerning more about the products (price, kind of machines).
Researchers	<ul style="list-style-type: none"> - Raising and improving the progressive technologies being suitable for producing. 	<ul style="list-style-type: none"> - Raising the professional knowledge, the capacity of international cooperation and handing over technologies. 	<ul style="list-style-type: none"> - Raising the professional knowledge, the capacity of international cooperation and handing over technologies.
Managers	<ul style="list-style-type: none"> - Forming the suitable policies 	<ul style="list-style-type: none"> - Changing in management methodology. - Strengthening the relationship amongst researchers, manufacturers and farmers. 	<ul style="list-style-type: none"> - Changing in management methodology. - Strengthening the relationship amongst researchers, manufacturers and farmers.

Group 3 Outcome Logic Model

Actors	Change in practice	Change in KAS to support changes	Strategies to bring about these changes in KAS & practice
Enterprises processing and consuming rice	<ul style="list-style-type: none"> - Procedure in collecting and buying - Technology and equipment in - Creating the new market 	<p>Guarantee the equal benefit of contract.</p> <p>Tend the market</p> <p>Invest the material area.</p> <p>Apply the new technology in harvest à rice's preservation and process.</p> <p>Apply the equipment synchronously and suitably.</p> <p>Invest, research and give the new product to the market.</p> <p>Marketing the products to the customers</p>	<p>Invest and consume the product</p> <p>Develop the relationship with farmers in producing</p> <p>Invest the suitable machines.</p> <p>Develop the fame of product for the production regions.</p>
Farmers organization	<p>Change understanding</p> <p>Change the procedure of cultivation.</p>	<p>Know how to apply the new technology, equipment and machine.</p> <p>Do the undertake of enterprise of contract.</p> <p>Increase the production scale.</p>	<p>Develop the showing models (machines, drying ground, storage, harvester, drying machines) in local region.</p> <ul style="list-style-type: none"> - Forcibility in investing the post-harvest equipments. - Do the contract with the enterprises. <p>Gather up the small fields in order to form large fields.</p>
Reserachers, Manufacturers (agricultural machines)	<p>Catch the need of farmers</p> <p>Research, invent and improve the suitable machines</p>	<p>Choose inventing the sort of the machines to mechanize and process rice.</p> <p>Marketing the product and the price.</p> <p>Tend the need of the market.</p>	<ul style="list-style-type: none"> - Government support the finance to develop the technologies - Manufacture the machines with suitable price. - Organize the workshops, showing models about the post-harvest machines..

Group 4 Outcome Logic Model

Actors	Change in practice	Change in KAS to support changes	Strategies to bring about these changes in KAS & practice
Farmers	<p>The habit of cultivation and post-harvest</p> <p>Reducing the post-harvest losses</p> <p>Consuming agricultural produce.</p>	<p>The technology of post-harvest preservation is better.</p> <p>Changing the bad habit (in post-harvest).</p> <p>Know how to use the new equipments and technologies.</p> <p>Understanding and applying the mass value of agricultural produce.</p>	<p>Survey the standard and effect model.(harvesting, drying, preservation, processing)</p> <p>Carry on close business in rice (in South regions and in Nghe An)</p>
Science research institutes, Universities	<p>Strengthening the connectivity ability and science research.</p> <p>Strengthening the transformation and the application.</p> <p>Changing the organization structure.</p> <p>Changing the science research's target.</p>	<p>Widenning the collaboration with the stakeholders.</p> <p>Widenning the collaboration with the domestic and international organizations.</p> <p>Changing the structure of science research's target.</p>	<p>Combine with the local region in the field of post-harvest.</p> <p>Develop the post-harvest network (build a website to update daily information).</p> <p>Identify the science research target which is suitable with the local region.</p> <p>Change the organization structure, raise the quality of science research (in post-harvest) .</p> <p>Organize the training to hand over the science technologies for the local members (in agricultural extension....)</p> <p>Put forward the policies to the ministry.</p>

Province, office, company	Name of Participant (email, mobile phone)	What/How they can contribute to the project
NLU	Phan Hieu Hien pghien1946@yahoo.com	Translator and promotor for project (This was given as an example by Dr. Hien)
Ag. Ext. Center Quang Ngai	Le Van Viet, 0905732195	Survey the situation of combine machines's application in Quang Ngai province.
Ag. Ext. Center Thua Thien Hue	Tran Quang Phuoc	Researching PH losses of rice
Ag. Ext. Center: Quang Tri	Nguyen Trung Hau tknknqt@gmail.com	Surveying PH losses in Quang Tri in order to transfer the PH technology methods for farmers.
Ag. Ext. Center:Ha Tinh	Nguyen Huu Ngoc huungocnknht@gmail.com , 0912999388	Evaluating PH activities in Ha Tinh province in order to establish a plan for project.
Ag. Ext. Center:Quang Binh	Le Hong Vien khnkquangbinh@gmail.com	Provide the application of PH technology in Quang province for project
Ag. Ext. Center:Quang Nam	Nguyen Huu Phuoc huuphuoc@gmail.com.vn , 0905060109	- Survey the requirements of models (rice storage for people in flood areas, rural areas, ...) and provide for project
Ag. Ext. Center:Thua Thien Hue	Le Thi Ngoc Suong ngocsuong.ptnhue@gmail.com , 0975544282	Establishing a network between producers, farmers and researchers. Taking part as a engineering person and communication person of project.
DARD, Nghe An	Nguyen Van Lap lapsnna@yahoo.com , 0912249069	Direct for survey in order to establish policies of application machines in PH technology
DARD, Quang Binh	Ho Khac Minh hkminhqb@yahoo.com.vn	Training for farmers about the advances of PH technology Evaluating the situation of PH loss and the state of application of PH technology and suggesting the practical requirements in PH in local.
DARD, Quang Ngai	Le Van Duong duongsnn@gmail.com	- Taking part as a member in PH network of Central Vietnam. - taking part the activities of Project in Quang Ngai province
DARD, Quang Tri	Tran Thanh Hien Tranthanhvien58@gmail.com , 0975436146	- Evaluating PH losses in Quang Tri Province. - Training methods for decreasing PH losses. - Suggesting province for support boats for rice harvest in sunken areas.
DARD, Thua Thien Hue	Duong Thi Hong Van Hongvan2211@gmail.com , 0987980060	- Surveying the requirement and effect of application of combine machines in local -Taking part as a communication person of project
Central Vietnam Center of HUAF	Nguyen Thi Thieu Duong Le Thanh Long	Assessing and transferring the technological products for producers Training for postharvest technology
HUAF	Nguyen Quang Lich ngqlich@gmail.com , 0935757273	- Writing the report of workshop in August, 2009 - Promoting the activities of project.
HUAF	Nguyen Thi Ngoc ngngoc05@gmail.com , 0987366956	Survey situation in PH and preservation of rice in local.
HUAF	Do Minh Cuong docuong72@gmail.com , 0986349252	-Training, showing and Transferring PH machines for farmers.
HUAF	Nguyen Thanh Long longdhh@yahoo.com , 0914114861	-Training famers, Ag. Ext. officers in PH technology. - Researching and guiding of application in rice PH technology.
HUAF	Nguyen Thi Van Anh nl.vananh@gmail.com	Training for engineering officers and farmers about decreasing PH losses in Central Vietnam.
Bich La Cooperative, Quang tri	Le Mau Hoai hoaimau@yahoo.com.vn , 0984570968	- Helping farmers to apply postharvest technology. - Provide the PH information for project.
Huy Phat Company	Tran Chi Lynh (lynhchi@gmail.com , 0982522430)	Guide for new models of PH in local
Phu Hoa Cooperative, Thua Thien Hue	Vo Hong, 01694401945	Encouraging farmers caring out the project of decreasing PH losses.
Thua Thien Hue, Company of Ag. Machines producer.	Hoang Cong Thanh, 0905364801	- Producing Ag. machines suitable for local.
Thuong Phong Cooperative, Le Thuy, Quang Binh	Vo Van Kinh, 0905688746	- Encouraging farmers for using PH machines - Establishing rice processing factories.

What activities to take	Who will do it	When
<i>Investigate; evaluate the actual situation of post-harvest need</i>	The Agricultural Extension Center in Quang Nam	3/2010
- Synthesize the reports after workshop. - Connect the participants in the workshop, set up the post-harvest network, open a website of PH in Central Vietnam	Faculty of Agricultural Engineering and Food Technology, HUAF	10/2009
<i>Evaluate the need of using of harvester combine machine.</i>	The Agricultural Extension Center in Quang Binh:	10/2009
- Adjust the policy for application of agricultural machines <i>Investigate; evaluate the actual situation of post-harvest mechanization.</i>	DARD, Nghe An The Agricultural Extension Center in Quang Ngai	10/2009
<i>Evaluate the effect of using harvester combine machine and develop the showing models</i>	The Agricultural Extension Center in Ha Tinh	5/2010
<i>Develop the drying machine in households and collaborative</i>	The Agricultural Extension Center in Quang Tri	9/2010
- Investigate the situation of agricultural mechanization and the actual situation of post-harvest technology in Thua Thien Hue in order to contribute the suitable policies. - Combine with the universities to train, improve the capacity of the member in district, commune.	DARD in Thua Thien Hue	2010
<i>Put forward to develop the model of high quality rice processing company</i>	Thuong Phong Cooperative, Le Thuy, Quang Binh province	1/2010
<i>Put forward to the department of agriculture to develop the model of seed preprocessing and storing company</i>	Phu Hoa Cooperative	4/2010
- Compare the rice dried under the sun with the rice dried by machines. - Evaluate the effect of using the 1,2 harvester combine machine	Huy Phat Company	4/2010
<i>Contribute the ideas to the people committee province the policies of harvester, drying, processing machine. Combine with the HUAF to research the suitable line sowing machine.</i>	DARD in Quang Binh	6/2010
<i>Carry on the service of buying and selling product, preservation and process, consuming rice.</i>	Bich La Cooperative, Trieu Phong, Quang Tri	9/2009
<i>Put forward the policy of post-harvest mechanization to the people committee province.</i>	DARD in Quang Ngai	2010
<i>Propose the policy to support the ship for the sunken region</i>	DARD in Quang Tri	2010
<i>Drying machine: ensure the quality of seed of rice</i>	Hung Trung Viet Company	9/2009
<i>Manufacture the small and medium harvester.</i>	Cong Thanh Company	9/2009
<i>Reflect to the leader of project to set up the collaborative plan in the post-harvest program in VietNam.</i>	The organization of coordinating project	10/2009
<i>Investigate the post-harvest losses in Nam Dong and A Luoi region.</i>	The Agricultural Extension Center in Thua Thien Hue	2/2010