

# Report on

## *PARTICIPATORY INNOVATION DEVELOPMENT (PID) TRAINING WORKSHOP*



Venue: Narayangardh, Chitwan

Date: 5<sup>th</sup> to 9<sup>th</sup> November 2006

Organised by: PROLINNOVA Nepal Programme



## ACRONYMS

ARS	Agriculture Research Station
DADO	District Agriculture Development Office/ Officer
ECOSCENRE	Ecological Services Centre
GO	Governmental Organization
IAAS	Institute of Agriculture and Animal Sciences
LI-BIRD	Local Initiatives for Biodiversity, Research and Development
NWG	National Working Group
PID	Participatory Innovation Development
PPB	Participatory Plant Breeding
PRA	Participatory Rural Appraisal
PROLINNOVA	PRomoting Local INNOVAation
PTD	Participatory Technology Development
PVS	Participatory Variety Selection
RRA	Rapid Rural Appraisal

### **Summary:**

PROLINNOVA Nepal conducted a five-day residential training workshop on "Participatory Innovation Development" from 5<sup>th</sup> to 9<sup>th</sup> November 2006 at Narayangarh, Chitwan. A total of 25 participants (6 women & 19 men), field staff of PROLINNOVA Nepal's partner organisations (CARE Nepal, Ecological Service Centre, Institute of Agriculture & Animal Science, LI-BIRD and Practical Action Nepal) attended the training workshop. The training programme was co-ordinated by Suman Manandhar with Sujata Manandhar, a LI-BIRD intern, providing support in logistics. Suman Manandhar from PROLINNOVA Nepal, Sharad Rai from Practical Action Nepal & Basanta Ranabhat from Ecoscentre were the trainers who did their best to make participants get a better understanding of PID. The training programme was conducted in a participatory way, which also included a half-day of field visits to innovators. During the training, the participants got a clearer understanding of PID. They learnt, among others, about: the difference between Participatory Technology Development (PTD) & Participatory Innovation Development (PID); the evolution of PID; what is innovation, types of innovation and the steps involved in PID; innovation documentation & validation of innovations. Open-floor discussion was encouraged during the training programme to clarify issues raised by participants in regards to PID with very good support from the trainers. From the participants' feedback, it was found that the training programme was successful, that learning from the training was very useful and it will help in fruitful development of PID. Twenty-five PID local experts have been developed in the country and they will be the helping hands in development & promotion of PID in Nepal.

(For details of the participants please refer to Annex 1. )

### **Pre-training Activity:**

Prior to the training, the trainers had a joint consultation on PID training related matters. Every participant was requested to write in brief his or her understanding on PTD before coming to the training programme. These write-ups were submitted to the trainers before the training began and helped the trainers to assess the participants' level of understanding on participatory approaches. The training was thus conducted in a participatory manner.

### **Day 1**

The workshop began with a formal opening session attended by Country Programme Coordinator of PROLINNOVA Nepal, Dr. Pratap Shrestha. This was followed by an ice breaker and a round of introductions. The main part of the day began with the explanation of objectives of the training Programme and information about PROLINNOVA Nepal. Suman Manandhar discussed in brief about the general objectives of the PID training and stated that PROLINNOVA is a global partnership programme that is being implemented currently in nine countries in Africa and Asia.

The participants were divided randomly into five groups to prepare reports for each day of the workshop. The groups were as follows:

#### **Group 1**

1. Mr. Bhim Lal Chepang
2. Ms. Man Kumari Mahato
3. Ms. Prabina Pradhan
4. Mr. Shahadev Rimal
5. Mr. Tek Nepali

#### **Group 2**

1. Mr. Bal Bhadra Poudel
2. Mr. Deepak Poudel
3. Mr. Megh Bahadur Pakhrin
4. Mr. Rajan Ghimire
5. Mr. Ram Chandra Poudel

#### **Group 3**

1. Mr. Bhowa Bahadur Gurung
2. Ms. Madhuri Thapa
3. Mr. Shree Kumar Maharjan
4. Mr. Shree Ram Subedi
5. Ms. Yam Kumari Oli

#### **Group 4**

1. Mr. Jeevan Pathak
2. Mr. Kripal Chaudhary
3. Mr. Mitra Bandhu Bhattarai
4. Ms. Nima Acharya
5. Mr. Pitamber Shrestha

#### **Group 5**

1. Mr. Ananta Subedi
2. Mr. Anup Adhikari
3. Mr. Shambhu Basnet
4. Ms. Sharmila Subedi
5. Mr. Sushim Amatya

The expectations of the participants from the training was collected and compiled as follows:

- Have basic concepts of innovation, PID and PTD.
- Know the process of PID and PTD.
- To be able to document innovation and implement PID and PTD practically.
- Know adaptability of PID and PTD by users and stakeholders.
- To be able to include PID in income-generating activities

The participants write-ups on Participatory Technology Development (PTD), which they had prepared beforehand, was also collected. According to these, PTD was understood as a concept to develop and improve a technology by users, stakeholders and other many responsible persons or organisations in participatory way, which would give an effective output.

The next session focused on the evolution of PID in Agriculture Extension (In context of Nepal: participatory work and presentation). Mr. Sharad Rai facilitated this session and the trainees in small groups prepared a timeline of PID development in the Nepalese context. They concluded that the development of PID has been as follows.

**Before 1960s:** Traditional system of cultivation.

#### **1960s:**

- Starting of the co-operative approach in the agriculture sector, establishment of vocational agriculture school, eradication of malaria from terai area, migration from hill to terai, which caused deforestation.
- Effects of Green Revolution.

#### **1970s:**

- Establishment of Agriculture Development Bank, Agriculture Campus and Agricultural Farm as well as RRA tools.
- Starting of research in agriculture sector.
- Technical knowledge and technology extension through government organisations.

#### **1980s:**

- Identified dependency on external resources.
- Starting the use of PRA tools in agriculture sector, which enabled participation of farmers in technology development.

#### **1990s:**

- Development of new variety of paddy by Lumle (ARS) in a participatory way.
- NGOs introduced PTD in community

#### **2000:**

- GOs introduced PTD in community

After this, the participants were given an individual exercise of drawing a picture on what they understood about the knowledge and attitudes on PID. The pictures were posted on the wall for later reference.

#### **LEARNING:**

1. Participants learnt about PID, PTD and its historical background and importance.
2. Participation helps to develop innovation in a sustainable way.
3. Bottom-to-top approach helps in the implementation and success of community based programmes.

## Day 2

The day started with a short recap of the previous day by one of the participants of group1. Each participant explained the picture he/she had drawn and what they understood by PID. They concluded that PID was a cumulative effort of a group including participation of users, stakeholders and personnel from different groups. The major focus of the session was on concept and practices of PID and Mr Sharad Rai facilitated the discussion on it. The participants listed out some special characteristics of local innovations as given below:

- Economically sound
- More applicable and also replicable in similar places elsewhere
- Easy and sustainable
- Based on local resource and knowledge base
- Positive effect on livelihoods and environment
- More efficient than traditional technology
- Meets local needs and requirements
- Accessible to local community and appropriate to them

The participants concluded that PID was the entry point for PTD and PID was not confined to the farming sector only rather it made local people good planners. Slideshows of case studies from different countries including Uganda, Tanzania, Kenya, Papua New Guinea and Nepal helped participants understand PID clearly. Participants worked in groups and gave short presentations on institutional experiences on PID/PTD.

### Group A

#### Title: *Participatory Plant Breeding (PPB) on Maize*

Bal Bhadra Poudel gave a short presentation on the experiences of LI-BIRD on PPB, PVS and seed production. The presentation included following:

- Problem identification by farmers: local varieties are tall and have lodging problem
- Concept of PVS (Participatory Variety Selection) provided by LI-BIRD and suitable varieties selected. Production increased but there raised problem of fodder shortage.
- PPB (Participatory Plant Breeding) program was implemented for mass selection of maize varieties on farmer's initiative.

### Group B

#### Title: *Jalkhari for Feeding Goats*

Mitra Bandhu Bhattarai presented experiences of ECOSCENTRE on efficient stall-feeding of goats using modified Jalkhari. The process was summarized as follows:

- Problem identified by farmers - difficulties to put grasses on Jalkhari
- Farmers generated innovative ideas to add a ring on the upper opening and some modifications on shape as well.
- Documentation and verification of innovation.
- Models developed by farmers are under trail.

### Group C

#### Title: *PID on Potato Seed Storage*

Sharmila Subedi gave a presentation on participatory development of Khwaga (Potato Seed storage device) to increase storage capacity and duration of potato.

- Problem identified by farmers on conventional Khwaga - less aeration and low storage volume.
- Group discussion (with community mobilizer) generated idea to improve Khwaga.
- It can be opened from both sides
- For proper aeration straw is not used at the corner of the Khwaga
- Use of nylon instead of jute rope
- Use of bamboo sticks instead of *Khadai* (dry grass generally used to thatch roof)
- After the innovation, more potato could be stored and it resulted in sufficient air movement during the storage period.

Mr. Basanta Rana Bhat facilitated the next session on concepts of traditional knowledge, local innovations and local technology. He also conducted a role-play session, which included several points to be considered in becoming a good facilitator. The next issue raised by Basanta Rana Bhat was stakeholders' identification and their roles in PID.

Different stakeholders were identified and their roles were discussed as follows:

1. Local Community (Community-based)
2. Research Organisation
3. NGOs /Donors including INGOs
4. Government organisations
5. Beneficiaries
6. Private Sectors
7. Investors

**LEARNING:**

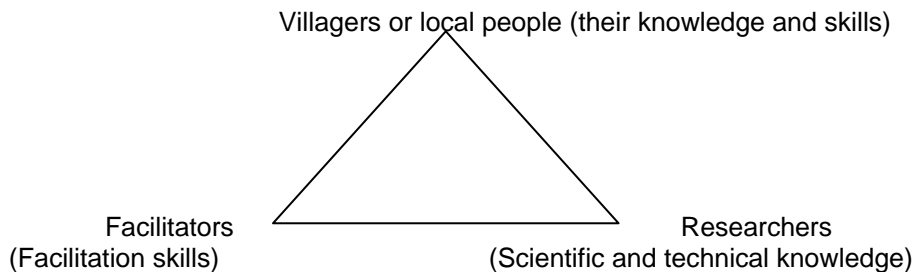
- Interactions and Role-play session made the training more effective.
- Group work is the best tool to clarify subject matter confusion
- Short breaks and entertainment make participants more enthusiastic on subject matter.

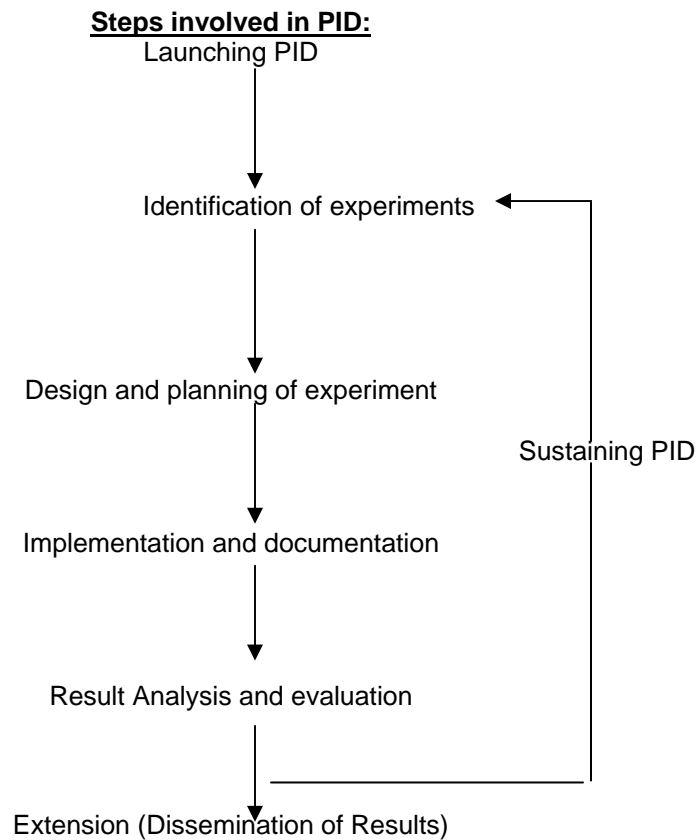
**Day 3**

Important facts of PID, gender involvement in PID, important steps involved in PID, innovation documentation process, need assessment and action research and capability of facilitators were the major discussion topics of the day. It was discussed that PID was an interactive process combining farmer's experience, knowledge, skill with researchers and extensionists meeting local needs and aspirations through the initiatives of local people utilising locally available resources. It should include and equally benefit both male and female. Their involvement would definitely enhance the PID process and research.

Suman Manandhar briefly explained the major components and important steps involved in PID. Basically PID has three major stakeholders: villagers or local people, facilitators and researchers.

**Major Stakeholders of PID:**





Local innovations suitable for one geographical location may not be applicable to other places; it differs from place to place. Regarding the type of innovations, there are five types of innovations identified so far. The facilitators tried to conduct training in more participatory and interactive way by initiating games, PID songs and jokes. The participants discussed the importance on PID, "why PID?"

- For Intellectual Property Right (IPR) of PID.
- Marketing of PID in international arena.
- Identification and promotion of local innovation.
- Management of livelihood with own resources.
- Conservation and promotion of traditional knowledge.
- Creating awareness to young generation about PID.
- For stakeholders involvement.
- Need assessment of local community.
- To increase effectiveness of local innovation.
- To empower local community.
- Sustainable development.
- Income generation.
- To improve environment.
- Expression of local, indigenous thoughts.
- To facilitate positive changes in farmers thought.

**Types of innovation:**

1. Traditional Innovation
2. Improved Traditional Innovation
3. Imported Innovation
4. Improved Imported Innovation
5. New Innovation
6. Others

After discussion on the importance of PID, a questionnaire on the PID documentation process was discussed and clarified by Mr. Basnata Ranabhat. The session started with a group game.

facilitated by Sujata Manandhar and Sushim Amatya. The game was interesting. Some lessons gained from the game were:

- Active participation leads to success of every task.
- Optimum resource utilization is required to accomplish the given task.
- Time management is important for success of every programme.
- Efficiency of work is increased when there is competition.
- Division of labour is important for efficient work.

After this, Mr. Sharad Rai delivered lecture on need assessment and action research presenting some slides. He explained the importance of problem identification and need assessment in terms of situation analysis, institutional analysis and task analysis before planning of any programme and introduced the use of an idea sheet and experiment sheet.

Mr. Ranabhat continued the discussion in a more interactive way on a facilitator's capability. According to him, a facilitator could also be a PID promoter in a PID process. A facilitator should have the following capabilities to conduct a facilitation process:

- Self confidence, patience and convincing power
- Flexibility
- Knowledge of subject matter
- Listening habit
- Interactive and unbiased
- Capable of handling each and every problem under difficult situations
- Good Motivator
- Should have idea of documentation and photography
- Leadership skill, clear and commanding voice
- Admirable
- Advocate the local community
- Hard working, should have idea on selection of local leaders and working with community
- Time management ability
- Should appreciate and have good understanding of local language, culture and tradition
- Good Resource Mobilizer

At the end of the day, the next day's field visit was planned. Four groups were formed with six participants in each group and various sites were selected, namely Kabilas, Gitanagar and Fulbari.

#### **Day 4**

The participants were taken to the field to gain practical experience, to be familiar with local innovation and to fill up the questionnaire or to document local innovations. Different groups visited different sites at Kabilas, Phulbari and Geetanagar in Chitwan district identified by LI-BIRD, ECOSCENTRE and Practical Action Nepal.

The afternoon session was allocated for the presentation and discussion of innovations documented from the field. The group members prepared their presentation in different formats and presented them in plenary.

**GROUP I** (Deepak Poudel, Jiwan Pathak, Sambhu Basnet, Ram Chandra Tiwari, Tek Sapkota, Shree Ram Subedi)

**Innovation:** Improved Hand Pump

**Innovator:** Mr. Roman Neupane, Geetanagar-5, Amarbasti

**Date of Innovation:** 2063 Baishakh

**Type of innovation:** Improved /modified form of existing technology.

The innovation was an improved hand pump that was efficient /successful to fill up a water tank placed at the top of the roof (up to 25 ft from ground level) without using an electric motor. The pump can be made using local materials and total cost of the innovation was Rs. 1,775.00 (Rupees One Thousand Seven Hundred Seventy Five





Only). The innovator had already sold 10 such pumps to the people of Madi Village of the same district. Mr. Neupane was further working to improve its capacity and efficiency using a spring pipe inside the cylinder.

**GROUP II** (Shahdev Rimal, Mitrabandhu Bhattarai, Mekh Bahadur Pakhrin, Rajan Ghimire, Bhim Lal Chepang)

**Innovation:** Plough

**Innovator:** Chandra Prasad Adhikari

**Date of Innovation:** 2059 B.S

**Type of innovation:** Both process and technology

**State of innovation:** In the process of experimentation

**Kind of innovation:** Improved plough

**Materials used:** Wood plank, iron knot bolts, and Iron Plate, winding wire

**Input cost:** Rs.615

**Dissemination:** Not done yet

**Problems:** not found but thinking of improving it in such a way that it can be drawn by an ox

**Solution:** materials are prepared but trial is yet to be done

**Feedback from others:** If the wood size were reduced then it would become less heavy.

Mr. Adhikari modified an iron plough to reduce the demerits of the existing iron and wooden plough. An iron plough can go into the hard layer in certain depth whereas the wooden one cannot. So, Mr. Adhikari slightly modified the iron plough to reduce demerits of both existing ploughs. This innovation hasn't yet been disseminated. He is further improving his innovation to increase efficiency. This group also documented other innovations such as tomato seed storage; fishpond above ground surface level, feeding methodology for fish and a fishing protection mechanism. Advantages of his innovation were:

- It works under the mixed principle of indigenous plough and motherboard plough so it is advantageous
- Reduces labour
- Increases income
- Portable
- The stubble does not get entangled in the plough



**GROUP III** (Sharmila Subedi, Neema Acharya, Madhuri Thapa, Anup Adhikari, Kripal Chaudhary, Bhowa Bahadur tamang)

**Innovation:** Wasp Trap

**Innovator:** Krishna Bahadur Tamang

**Address:** Bharlang-1, Kabilas, Chitwan

**Date of innovation:** 2059 B.S

**State of innovation:** In the process of innovation

**Type of innovation:** Improved the imported one

**Kind of innovation:** Technology

**Materials used:** Wood planks, iron net, plastic sheet, lid cover, tin, nails

Mr. Tamang designed the wasp trapper with his own idea in order to reduce the time used in guarding the wasp using local resources. He claims that it is easier to construct and use the trapper and protect the bees from wasps. Three households in Tanahun district and one in Narayangarh are using it.

**Problems:** Only wasps entering the trap are controlled but those flying around outside the trap aren't controlled. Birds also disturb the bees.

**Solution:** He is thinking of making a trap for that as well.

**Feedback from others:** Liked by the user group.



**GROUP IV** (Shree Kumar Maharjan, Pitamber Shrestha, Prabina Shrestha, Balbhadra Poudel, Ananta Subedi, Sushim Amatya)

**Innovation:** Improved Paddy Thresher

**Innovator:** Mr. Roman Neupane, Geetanagar-5, Amarbasti

**Date of Innovation:**

**Type of innovation:** Improved /modified form of existing technology.

This group also documented the other innovation of Mr. Neupane, He has developed an improved thresher with his own idea. Advantages of the new thresher as explained by Mr. Neupane were:

- More quantity of rice could be threshed (2.5 to 3 quintal /bigha)
- Requires less labour, less time and a small space
- Cost effective (Needs Rs. 1000 only instead of Rs. 1500, Rs. 500 less as compared to manual threshing)



He is trying to improve the speed of the fan to reduce vibration. The cost of making a thresher is Rs 30,000. To date, a farmer from Fulbari VDC has demanded such a thresher and Mr. Neupane is making one for him.

**LESSONS LEARNT FROM THE FIELD VISIT:**

1. Field exposure is important for practical knowledge.
2. Illiterate people can also be innovators.
3. Effective and efficient innovations can be developed using local materials/resources.
4. Validation and effectiveness study is important before promoting any innovations.
5. Several good innovations can be seen in rural areas. The role of supporting organisations is very important to identify, encourage innovators and promote innovation development.

**DAY 5**

The day began with an opening session refreshing the participants on the previous day's activities. In the next session each participant sketched a drawing, which visualized the understanding of PID and described what s/he understood by PID compared to that drawn on the first day. Participants also explained what they had learnt during the past five days. They also added a summary of their understanding on PID in not more than two sentences, on their drawing sheet.



One of the participants, Mr. Tek Nepali amused the participants with a game on numbers and arithmetic. Another participant, Mr. Jeevan Pathak then engaged the team by playing a game on parallax. The participants prepared their individual work plan. Mr. Rishi Adhikari from ECOSCENTRE facilitated the participants to prepare a tentative work plan on promotion of PID and its processes.

The format of the work plan was as follows:

S. No	Activities	Where	When	Support by	Indicator
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At the end of the training, the participants filled out an evaluation form to evaluate the entire training workshop.

A formal closing ceremony was organised by inviting Dr. Dharma Raj Dangol from IAAS (also PROLINNOVA Nepal NWG member) as chairperson, DADO from Chitwan, Suraj Pokhrel as chief guest and other media persons. Rishi Adhikari from Ecoscentre was master of ceremony. Dr. Dangol and DADO from Chitwan delivered short speeches on the importance of Participatory Innovation Development and its status in Nepal. Dr. Dangol distributed certificates to all the participants and formally closed the five-day PID training programme.

**Participants' Feedback on Overall Training Programme:**

1. Interesting sessions and entertaining breaks
2. Interaction is fine
3. Equal opportunity given to all participants
4. Good facilitation and logistics
5. Interesting discussions with examples
6. Clear subject matter
7. Nice presentations of facilitators
8. Active participation of all
9. More practical knowledge gained
10. Role-play was very effective
11. Experience sharing of Africa was nice
12. Time management for every session is a must.
13. Simple presentations with examples.
14. Examples should be from Nepal
15. Conclusion /Summary should be made at the end of the day /sessions
16. Non-agricultural examples should also be included.
17. Discussion on the subject matter should be done in brief.

## Annex 1

### PARTICIPANTS' NAME LIST

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Name : Bhim Lal Chepang  
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Participating from which Organization : CARE Nepal



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**PROGRAM SCHEDULE:**

<i>Days</i>	<i>Session</i>	<i>Activities</i>	<i>Responsible</i>	
<b>1<sup>st</sup> (5<sup>th</sup> Nov 2006)</b>	Morning	Registration	Sujata Manandhar	
		Introduction of participants	All	
		Brief description of the program (logistics)	Sujata Manandhar	
		Introduction of PROLINNOVA Nepal Programme and its objectives	Suman Manandhar	
		Expectation collection	All	
		Lunch Break		
	Afternoon	Evolution of PID in Agriculture Extension (In context of Nepal: participatory work and presentation)	All	
		Understanding the knowledge and attitude of participants on PID (Individual exercise of drawing picture and pasting it on the wall for later reference)	All	
		Closing of First day.		
<b>2<sup>nd</sup> (6<sup>th</sup> Nov 2006)</b>	Morning	Recapitulation	Group 1	
		Explanation of previous days drawing	All	
		Concepts and practices of PID	Sharad Rai	
		Tea Break		
		Institutional experiences on PID/PTD	Group Work	
		Presentation on " Institutional experiences on PID/PTD"	Group work	
		Lunch Break		
	Afternoon	Role of different stakeholders in PID	Basanta Ranabhat	
		Tea Break		
		Basic elements of PID	Suman Manandhar	
Closing of Second day.				
<b>3rd(7<sup>th</sup> Nov 2006)</b>	Morning	Recapitulation	Group 2	
		Steps to PID process and elements of PID	Suman Manandhar	
		Tea break		
		Process and methods of innovation documentation	Basanta Ranabhat	
		Lunch Break		
	Afternoon	Group game	All	
		Need Assessment and Action Research of local innovation for improvement	Sharad Rai	
		Capability of facilitators	Basanta Ranabhat	
		Tea Break		
		Preparation for field visit	All	
<b>4th(8<sup>th</sup> Nov 2006)</b>	Morning	Field visit	Four Groups	
		Lunch Break		
	Afternoon	Recapitulation	Group 3	
		Discussions on field visit and group presentation	Group work	
		Tea Break		
		Recapitulation of the days activity		
	<b>5th(9<sup>th</sup> Nov 2006)</b>	Morning	Recapitulation	Group 4
Participants understanding of PID (Drawing pictures and comparing with the first days own perspective)			All	
Tea Break				
		Action Plan for PID	All	
		Final Evaluation of Training	All	
		Lunch Break		
Afternoon		Closing Ceremony		