

# Pesticide Risk Reduction Programme – Ethiopia

## Workshop Risk assessment and protection goals

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joint collaborative programme on pesticide registration and post-registration



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**Towards a sustainable use of pesticides in Africa**

# Introduction to this workshop

- Activities WP B2.1 Environment
- Activities this workshop
  
- Objectives
- Deliverables
  
- Working method
  
- Programme of the week



# PRRP-Ethiopia



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## WP B2.1 Environment

Development of a scientific evaluation system for the registration of pesticides –

Evaluation of dossiers of chemical pesticides

1. Efficacy - started Jan 2011
2. Environment – started May 2011
3. Human health and residues – start early 2012

# Scientific evaluation system for environmental aspects – Planned activities 2011- 2013

## Activity 1:

Development of environmental hazard and risk assessment to be used for evaluation of dossiers, by

- A. General workshop on environmental hazard and risk assessment and
- B. Workshop to define protection goals for the environment (soil, water, air, zones, species etc)

# Scientific evaluation system for environmental aspects – Planned activities 2011- 2013

Activity 1 (cont'd):

Development of environmental hazard and risk assessment to be used for evaluation of dossiers, by

C. Adopt an existing tool or create a new tool/model for environmental hazard and/or risk assessment (PRIMET ?)

D. Develop evaluation procedures leading to conclusions on acceptability (yes/no) according to developed criteria (of Activity 3)

# **Scientific evaluation system for environmental aspects – Planned activities 2011- 2013**

Activity 2:

Development of new data requirements (if needed)  
by

A. Update SEARCH based and associated guidelines

# Scientific evaluation system for environmental aspects – Planned activities 2011- 2013

## Activity 3:

Development nationally applicable criteria for acceptability of pesticides (e.g. environmental impact, physical-chemical characteristics)  
by

- A. Define draft criteria using international criteria as basis and
- B. Discuss draft criteria with all stakeholders

# Scientific evaluation system for environmental aspects – Planned activities 2011- 2013

Activity 3 (cont'd):

Development nationally applicable criteria for acceptability of pesticides (e.g. environmental impact, physical-chemical characteristics)

by

C. Define national applicable criteria  
and

D. Formalize criteria as part of directive or regulation



# Scientific evaluation system for environmental aspects – Planned activities 2011- 2013

## Activity 4:

Development of guidance on how to assess the quality of the data submitted by

- A. Workshop on quality data submitted by registrant and
- B. Development of guidance on quality assessment

# Scientific evaluation system for environmental aspects – Planned activities 2011- 2013

## Activity 5:

Capacity building on human resources to get a qualified team with relevant skills to evaluate the dossier by

- A. Development of a manual (environmental aspects);
- B. Training on environmental risk assessment tool and
- C. On the job training on dossier evaluation for registration experts from stakeholder institutions

# Scientific evaluation system for environmental aspects – this workshop

## Activity 1:

Development of environmental hazard and risk assessment to be used for evaluation of dossiers, by

A. General workshop on environmental hazard and risk assessment, combined with

B. Workshop to define protection goals for the environment (soil, water, air, zones, species etc)

# Objectives this workshop

## *Environmental hazard and risks*

- General training on risk assessment methods, models and tools, possibly relevant for estimation of environmental concentrations in Ethiopia
- General training on international criteria for environmental hazard (and some risk)

# Objectives this workshop

## *Environmental hazard and risks (cont'd)*

- Identify problems, list and prioritize gaps and needs in current environmental evaluation procedure
- Presentation and discussion which risk assessment methods may be suitable.

# Objectives this workshop

## *Protection goals*

- Explanation on possible protection goals and how to define them
- Role of PRIMET
- Presentation inventory study results
- Discussion on protection goals for Ethiopia

# Objectives this workshop

## *Protection goals (cont'd)*

- Decision about scenario zone(s)
- Definition of possible protection goals, their selection and priority
- Coupling scenario zones and protection goals
- Design of conceptual models for protection goals
  
- What about metabolites ?

# Deliverables of the workshop

- Table of risk assessment models and tools used in the workshop with (dis)advantages for use in Ethiopian registration procedure
- List of (inter)national criteria for environmental hazard or risk with their relevance for Ethiopian registration
- Document describing the options for the protection goals, the selected ones and their priority; selected scenario zone(s), coupling to protection goals; conceptual models for the protection goals



# Deliverables of the workshop

- Document describing needed data and information to operationalise the conceptual models (in view of their incorporation in PRIMET ?)
- Action list, stating action, responsible person, planning and deadline
- Evaluation of training/workshop
- (Mission report, incl. e.g. all PPT, results mentioned above)

# Working methods in the workshop

- Powerpoint presentations with questions
- Central discussion, i.e. in overall group
- Work in smaller break-out groups, see group composition
- Reporting back by break-out groups and central discussion, resulting in options (N.B. scientists' role)
- Decisions by representatives of political level in Ethiopia

# Working methods in the workshop

- Break out groups (number and members)

# Working methods in the workshop

- Representatives of political level are:
  - # Ato Birehanu Ayalew, EPA
  - # Dr Alganesh Tessema, Institute of Biodiversity Conservation
  - # Dr Dereje Gorfu , EIAR
  - # others ?
- They are also member of the Pesticide Advisory Board
- Their role:
  - # decide upon balance between environmental protection and socio-economic interests
  - # communicate with higher political level, obtaining support for decisions made

# Programme – day by day - overall

- Start at 9.00
- Tea break 10.00-10.30
- Lunch 12.30-14.00
- Tea break 15.30-16.00
- End day at 17.30



# Programme – day 1 – Mo 14 Nov 2011

## Environmental Risk Assessment

Chair/facilitator: Ato Birhanu Ayalew

Rapporteur: Gizachew Assefa

- 11.00- 11.45:  
Environmental Risk Assessment: general introduction – Peter van Vliet
- 11.45-12.30: review registered pesticides and national standards –  
Bekele Dinku
- 14.00-14.30:  
International criteria – Peter van Vliet
- 14.30-15.30:  
Central discussion: List of (inter)national criteria for env. hazard (-> input  
Criteria workshop 2012)

# Programme –day 1 +2 – Mo+Tue 14+15 Nov 2011

## Environmental Risk Assessment

Chair/facilitator: Ato Birhanu Ayalew

Rapporteur: Gizachew Assefa

- 16.00-16.30:  
Current evaluation procedure APHRD ERA – Alemayehu Woldeamanual
- 16.30-17.30:  
Central discussion: List with problems, gaps, and needs in ERA procedure APHRD

Tue 15 Nov

- 9.00-9.45:  
ERA in EU and NL, fate+ecotox – Peter van Vliet
- 9.45-10.30:  
Central discussion: Suitability presented methods for Ethiopia +  
List with (dis) advantages for use in registration

# Programme – day 2 – Tuesday 15 Nov 2011

## **Risk Assessment Methods: examples of sw/gw in EU, NL and China**

Chair/facilitator: Dr Dereje Gorfu

Rapporteur: XX

- 11.00-11.30:  
Principles of scenarios and protection goals – Paulien Adriaanse
- 11.30-12.00:  
Introduction to models, scenario development in EU – Paulien Adriaanse
- 12.00-12.30:  
Leaching assessment in EU – Paulien Adriaanse
  
- 14.00-14.30:  
Leaching assessment in China – Paulien Adriaanse
- 14.30-15.30:  
Central discussion: Suitability presented leaching assessment methods for Ethiopia + List with (dis) advantages for use in registration



# Programme – day 2 – Tuesday 15 Nov 2011

## Risk Assessment Methods: examples of sw/gw in EU, NL and China

Chair/facilitator: Dr Dereje Gorfu

Rapporteur: XX

- 16.00-16.30:  
Surface water for drinking water- Paulien Adriaanse
- 16.30-17.00:  
Exposure assessment in surface water in EU – Paulien Adriaanse
- 17.00-17.30:  
Central discussion: Suitability presented sw assessment methods for Ethiopia + List with (dis) advantages for use in registration

# Programme – day 3 – Wednesday 16 Nov 2011

## Risk Assessment Methods: examples of sw/gw in EU, NL and China

Chair/facilitator: Dr Dereju Gorfu

Rapporteur: XX

- 9.00-9.30:  
Proposed approach ERA - Paulien Adriaanse
- 9.30-10.00:  
PRIMET (focus on ERA for sw/gw) – Paulien Adriaanse
- 10.00-10.30:  
Central discussion: Suitability PRIMET for Ethiopia +  
needed improvements for Ethiopia

# Programme – day 3 – Wednesday 16 Nov 2011

## Protection goals: definition and conceptual model

Chair/facilitator: XX

Rapporteur: W/o Hiwot Lemma

- 11.00-11.45:  
Inventory of agro-environmental characteristics and pesticide use in Ethiopia – Alemayehu Woldeamanual
- 11.45-12.30:  
Definition of protection goals 1 + split up in break-out groups – Paulien Adriaanse
- 14.00-15.00:  
Identification of scenario zones + potential protection goals - break-out groups

# Programme – day 3 – Wednesday 16 Nov 2011

## Protection goals: definition and conceptual model

Chair/facilitator: XX

Rapporteur: W/o Hiwot Lemma

- 15.00-16.45:  
(includes tea break)  
reporting back and central discussion:  
# one or more scenario zones ?  
# list of potential protection goals
- 16.45-17.30:  
Definition of protection goals 2 – Paulien Adriaanse

# Programme – day 4 – Thursday 17 Nov 2011

## Protection goals: definition and conceptual model

Chair/facilitator: XX

Rapporteur: W/o Hiwot Lemma

- 9.00-9.30:  
Summary Identification scenario zones + potential protection goals – W/ o  
Tsehay Azage & Gizachew Assefa
- 9.30-10.30:  
Choice of scenario zone(s) and protection goals – break-out groups
- 11.00-12.00:  
Reporting back and central discussion: List with combination of scenario  
zones and protection goals – break-out groups
- 12.00-12.30:  
Definition of protection goals 3 – Paulien Adriaanse

# Programme – day 4 – Thursday 17 Nov 2011

## Protection goals: definition and conceptual model

Chair/facilitator: XX

Rapporteur: W/o Hiwot Lemma

- 14.00-14.30:  
Summary Choice of scenario zones and protection goals  
– W/ o Tsehay Azage & Gizachew Assefa
- 14.30-15.30:  
Definition of conceptual models for priority protection goals –  
break-out groups
- 16.00-17.30:  
Reporting back and central discussion:  
Conceptual models for priority protection goals

# Programme – day 5 – Friday 18 Nov 2011

## Protection goals: definition and conceptual model

Chair/facilitator: XX

Rapporteur: W/o Hiwot Lemma

- 9.00-10.00:  
Overall summary definition of protection goals, including conceptual models for priority protection goals  
– W/ o Tsehay Azage & Gizachew Assefa
- 10.00-10.30 and 11.00-12.30:  
Next steps, drawing up action list: tasks, actors, planning, deadlines
- 14.00-14.30:  
Closure note and evaluation form

# Amesege'nallo', thank you!



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