

Rotterdam Convention on the Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade





The National Consultation on the Development of National Action Plan for the Implementation of the Rotterdam Convention

Islamabad, Pakistan

26-29 June, 2007

In collaboration with the

The Secretariat of the Rotterdam Convention Geneva-Rome

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FOREWORD

The Ministry of Environment, Government of Pakistan is striving for environmental protection and pollution control in Pakistan. Safe use of chemicals and environmentally sound management of hazardous chemical wastes is the corner stone of the National Environmental Policy.

International Cooperation (IC) Wing of the Ministry of Environment deals with the issues related to safe management of hazardous chemicals and wastes under various agreements e.g. Basal Convention, Stockholm Convention, Rotterdam Convention, SAICM, Montreal protocol and Kyoto Protocol etc.

The IC Wing arranges for several activities, aimed at enhancing capacity within the country to tackle the newly arising issues related to wise use of certain hazardous chemicals and safe disposal of harmful wastes.

Some chemicals and their by products need careful evaluation before being released to the environment, while the use of certain other chemicals need to be banned or restricted in order to avoid environmental degradation and to combat rising levels of pollution.

The Joint Secretary, IC Wing is the Designated National Authority (DNA) for the Rotterdam Convention. The DNA is striving for implementation of PIC procedure in the country. A participatory decision making process has been adopted. In order to obtain active participation of Stakeholders, the IC Wing occasionally organizes stockholders dialogue and consultations. One such Consultative Workshop on the Rotterdam Convention was arranged from 26 to 29th June, 2007 in collaboration with Rotterdam Convention Secretariat and the FAO for National capacity building. The consultation involved a wide range of stakeholders from government, civil society, private sector, industrial and research organizations as well as the professionals from the academia in order to actively pursue the agenda of safer use and trade in the chemicals which can be otherwise harmful to human health and the environment.

The enhancement in capability of the concerned government officials and other stakeholders, will lead us towards development of National Action Plan for Implementation of the Rotterdam Convention on Certain Hazardous Chemicals.

The Ministry of Environment is actively pursuing creation of a strong technical cadre within the Ministry to cater the future needs in respect of timely and effective decision making regarding various environmental issues and the international obligations. A National Multilateral Environmental Agreements (MEAs) Secretariat has been established in the Ministry. The secretariat will provide inputs to the Ministry on various technical issues.

The National Consultative Workshop on the Development of National Action Plan for the Implementation of the Rotterdam Convention, 26-29 June, 2007 has been very productive. The deliberations of the delegates will go a long way towards developing mechanisms for safe management of chemicals and wastes in Pakistan.

It is further reiterated that the opinions solicited from the technical experts and the valuable suggestions put forth by the learned participants will be reflected in the future strategies and plans devised in light of requirements/obligations under Rotterdam Convention.

I appreciate the untiring efforts put in by the officers and staff of the IC Wing and the valuable cooperation extended by the Rotterdam Secretariat and the FAO to make the event a success.

Khizar Hayat Khan Joint Secretary (IC) Ministry of Environment, Government of Pakistan

Acknowledgement

The National MEAs Secretariat of the Ministry of Environment, Government of Pakistan arranged a four days National Consultation / Workshop on the Development of National Action Plan for the Implementation of the Rotterdam Convention under the leadership and guidance of Mr. Khizar Hayat Khan, Joint Secretary, International Cooperation (IC) Wing. Mr. Khizar Hayat Khan was the main driving force behind this Consultative Workshop. Without his vision, initiative and drive, the Workshop could never had become a reality.

I express my deep gratitude and sincere thanks to the Secretary, Ministry of Environment for providing patronage and sparing time from his extremely busy schedule to inaugurate the National Consultative Workshop on Development of National Action Plan for implementation of the Rotterdam Convention.

Mr. Manzoor Alam Qureshi, Deputy Secretary (IC) Wing took keen interest in organization of the Workshop and provided all possible support in timely holding of the Workshop and making it a success. He provided inputs to various plenary and technical sessions too. I would like to thank him for his sincere contribution.

My special thanks are due to Mr. Bill Murray from the Rotterdam Convention Secretariat, Mr. Yongfan Piao from FAO and Mr. Gamini Manuweera from Department of Agriculture, Srilanka for sharing their expertise, rich experience and wealth of knowledge with the participants and thus making the flow of the proceedings worthwhile and beneficial towards achieving objectives of the Workshop.

I am deeply indebted to Mr. Maqsood Akhtar, Deputy Program Manager, Ozone Cell, for maintaining a meaningful and efficient contact with FAO and RC Secretariat in arranging funds and finalizing the arrangements for holding this Workshop. He was the key figure in making logistical arrangements for the Workshop. My special thanks and acknowledgements are due to Mr. Zaigham Abbas, Technical Officer (Chemicals) for establishing contacts with the delegates and ensuring their participation. His pertinent and persistent technical contribution before and during the Workshop deserves deep appreciation. He gave valuable inputs and took keen interest in the course of proceedings of the Workshop.

I will be failing in my duty if I do not acknowledge with deep gratitude, the great contribution of Mr. Tariq Nazir, Section Officer (IC-I), M/o Environment who contributed not only towards planning and organizing of the Workshop but also acted as a learned resource person whose vital inputs were admired by the organizers and delegates alike.

My thanks are due to Mr. Noor-Ul-Hadi, Deputy Project Manager, National MEAs Secretariat, who acted dutifully and diligently as the overall Coordinator of the Workshop and ensured timely provision of all inputs required for efficient conduct of all the plenary and technical sessions.

Mr. Fateh Ali Khan, Deputy Project Manager, was the chief of protocol who received and saw off the Local and Foreign Delegates at the airport and provided all sorts of facilitation.

Mr. Asif Hanif, Deputy Project Manager, performed as anchor person of the inaugural ceremony of the Workshop. He also served as the overall Conference Rapporteur.

Syed Hashim Raza Zaidi, Subject Specialist and Mr. Ahmad Hussain, Deputy Project Manager, acted as Facilitator for Breakout Groups and reported on other Sessions of the Workshop too.

My sincere thanks are due to all National MEAs Secretariat Staff, particularly Mr. Waseem Shahid, Stenographer, and Syed Naubahar Shah, Finance Assistant, who helped in compiling and formatting of this document.

Several private organizations and many stakeholders provided key inputs during discussions in the plenary and technical sessions. I, on behalf of the Organizing Committee of the Workshop, wish to acknowledge with gratitude, the cooperation and support of these institutions, organizations and the learned delegates whose active participation made the National Consultative Workshop a tremendous success.

(Syed Zaheer Ahmad Gillani) Project Manager, National MEAs Secretariat, Ministry of Environment, Islamabad

Executive Summary

1. Introduction

1.1 General

Rotterdam Convention (RC) came into force in February 2004. There are 116 parties to the Convention including 13 from Asia. The objectives of the convention are to promote shared responsibility and cooperation among parties in the international trade of industrial chemicals and pesticides in order to protect human health and the environment from potential harm and contribute to their environmental sound use, by facilitating information exchange about their characteristics by providing for a national decision making process on their import and export and dissemination of these decisions to parties. The Convention creates legal binding/obligations for the implementation of the Prior Informed Consent (PIC) procedure.

1.2 Brief Background

Pakistan Signed the Rotterdam Convention in September 1999 and ratified it on14th July 2005. Government of Pakistan has two Designated National Authorities (DNAs). Industrial chemicals (under RC) are dealt by the Ministry of Environment (MoE) and Plant Protection Department of Ministry of Food, Agriculture and Livestock (MINFAL) deals with pesticides.

1.3 Purpose of the meeting

With the technical assistance of the Secretariat of the Rotterdam Convention and in cooperation with the Regional office of the FAO for Asia and Pacific and UNEP, a national consultation to support development of national action plan for the implementation of the Rotterdam Convention was held in Islamabad from 26-29 June, 2007.

The overall objective of this consultation was to facilitate a national dialogue involving relevant stakeholders on Rotterdam Convention to review the current status of implementation and to identify the guidelines to develop a national action plan for the implementation of the Convention in Pakistan.

Participants from various ministries, public and private sector organizations (Annex-II) deliberated on issues and challenges; provided valuable inputs, suggestions and recommendations for practicable and possible solutions; and thus helped in setting up the stage for further inter-ministerial and institutional cooperation to ensure follow-up of the meeting.

2. IMPLEMENTATION OF THE ROTTERDAM CONVENTION

2.1 Current status

Twenty eight pesticides subject to PIC procedure under RC have already been banned in Pakistan. The import response from Pakistan for 26 pesticides has been communicated to RC Secretariat. However, the import response of methyl parathion and heptachlor need to be worked out.

Pakistan has not provided the RC Secretariat any export/import response on any of the industrial chemicals. However Poly Chlorinated Biphenyls (PCBs) have been banned and included in Annex-A (List of Banned Items) of the Government of Pakistan Trade Policy 2006. There is need to inform the RC Secretariat about banning of PCBs in Pakistan and to work out strategy about remaining ten industrial chemicals in accordance with national priorities set in consultation with all the stakeholders.

MINFAL has an Agricultural Pesticides Technical Advisory Committee (APTAC) for appropriate decision-making on the information and recommendations of APTAC-Subcommittee. The APTAC-Sub-Committee reviews and evaluates all concerns of pesticides in Pakistan. Whereas, official forum to deal with industrial chemicals does not exist, for this reason, the consolidated data on the industrial chemicals under RC has not been collected for import response.

The APTAC set up by the MINFAL evaluates all pesticides to avoid formulation of severely hazardous pesticides. The eco-toxicological tests are done by various research laboratories. No Severely Hazardous Pesticide Formulation (SHPF) is recommended unless evaluated by eco-toxicological labs.

2.2 Gaps in capacity to meet RC obligations

- Mechanisms for inter-ministerial interaction, public and private sectors, academic research and decision makers need to be created and updated.
- Technical capacity constraints do exist within the Government and other organizations.
- Difficulties are faced in collecting technical information for making decisions on pesticides and industrial chemicals.
- No effective infrastructure to monitor and report cases of poisoning by pesticides and industrial chemicals.
- No consolidated database on the status of chemicals usage, manufacture, formulation and import.
- The consolidated data on the industrial chemicals under RC have not been collected for import response.

2.3 Actions needed to fill the gaps

- A chemical review committee to look into and evaluate all industrial chemicals in Pakistan be constituted. The committee should also develop procedures/mechanisms for inter-ministerial interaction, communication among public and private sectors, academic research and decision makers.
- RC Secretariat may provide continuous support for capacity and capability development at national/regional levels.
- Improved infrastructure to monitor and report poisoning by pesticides and industrial chemicals be established at the earliest.
- A consolidated national database/ chemical profile on the status of chemicals and pesticides usage, manufacture, formulation and import be developed with the assistance of RC Secretariat.

3. Priorities for Action

- 3.1 Import response for remaining two pesticides (methyl parathion and heptachlor) need to be updated to RC Secretariat
- 3.2 Import response for 11 industrial chemicals need to be intimated to RC Secretariat.
- 3.3 Poly Chlorinated Biphenyls (PCBs), which have already been banned, need to be communicated to the RC Secretariat.
- 3.4 The information on the status of remaining five banned industrial chemicals alongwith five banned asbestos categories need to be collected for import response on priority basis.
- 3.5 The already banned pesticides other than 28 RC pesticides be notified to RC Secretariat.
- 3.6 Local criterion should be established to notify pesticides/chemicals to RC Secretariat.

Inaugural Address by the Secretary, Ministry Of Environment

Distinguished delegates, Ladies and Gentlemen:

I feel pleasure for participating in the inaugural session of this consultation workshop organized by Rotterdam Convention Secretariat, UNEP, and FAO in collaboration with Ministry of Environment.

The sustainable management of chemicals and wastes has always been an important priority for developing countries like Pakistan. I am, therefore, very pleased that so many experts representing governments, non-governmental organizations, health specialists, manufacturing companies and industry associations from around the country have been able to participate in this consultation workshop.

Ladies and Gentlemen:

A delicate equilibrium exists among the components of the ecosystems, and man has disturbed this balance through its careless activities like unplanned heavy industrialization, farm mechanization, more land grabbing for the purpose of agriculture and to cater housing needs etc. in wake of the rising human population. Man needs to be more careful in its activities affecting natural ecological balance and consequential climate change.

Ladies and Gentlemen:

Ministry of Environment, being the focal Ministry in Pakistan for Rotterdam Convention on Prior Informed Consent Procedure for Certain Hazardous Chemicals and Pesticides in International Trade, is undertaking all necessary measures for enhancing the country's capacity to address the Issue. We are in the process of creating a Technical Wing where all the issues pertaining to chemicals will be dealt with effectively and efficiently. It will facilitate the ministry in fulfilling the obligations under the Rotterdam convention, besides improving the existing chemicals management infrastructure. Ladies and Gentlemen:

As you all know that Chemicals and Pesticides are produced with the intention to provide more comfort to human beings, because they have vital role in the increase of crops yield and other items of daily use. But on the other hand most of the industrial chemicals and pesticides are considered as the major source of environmental and health problems. Chemical management is not only a national but also an international issue. Awareness should be promoted among the general public to have sound knowledge regarding aftereffects of careless use of pesticides and industrial chemicals.

This four-day training workshop brings together experts from a range of professional capabilities to share their valuable knowledge and experiences. It is expected that this workshop will build the capacity of the participants for the effective management of industrial chemicals and pesticides in Pakistan.

Let me conclude with the best wishes for the success of this workshop. I am confident that this consultation will conclude with sound and meaningful guidelines, which would be of great help in developing the Action Plan for the implementation of Rotterdam Convention.

Thank you.

Welcome Address by the Joint Secretary (IC)

Honorable Federal Secretary for Environment, Distinguished delegates,

Ladies and Gentlemen:

I welcome you all at the opening ceremony of this workshop on "National Consultation on the Development of National Action Plan for the Implementation of Rotterdam Convention", organized by Rotterdam Convention Secretariat, UNEP and FAO in collaboration with Ministry of Environment.

Ladies and Gentlemen:

The chemicals industry is the world's largest manufacturing industry with annual sale of US\$ 1.6 trillion. An estimated 1-2 million chemicals are on sale around the world today.

Ladies and Gentlemen:

The objective of this convention is to promote shared responsibility and cooperative efforts among parties in the international trade of certain hazardous chemicals in order to protect human health and environment from potential harm to contribute to their environmentally sound use:

- i) By facilitating information exchange about their characteristics,
- ii) By providing for a national decision making progress on their import and export and
- iii) By disseminating these decisions to parties

Pakistan has ratified 'Rotterdam Convention on the Prior Informed Consent (PIC) Procedure for Certain Hazardous Chemicals and Pesticides in International Trade' on 14th July 2005 and this workshop is being held as a result of this ratification.

Ministry of Environment is also Focal ministry for Basel Convention for Transboundary Movement of Hazardous Waste and Their Disposal, Stockholm Convention on Persistent Organic Pollutants (POPs) and Strategic Approach to International Chemicals Management (SAICM). Ladies and Gentlemen:

I hope that this Consultation workshop will prove a milestone to create awareness among the stakeholders about our international obligations for the implementation of Rotterdam Convention. I am extremely grateful to the Honourable Federal Secretary for Environment for sparing time from his busy schedule to grace the occasion. I also thank all the delegates particularly the foreign delegates for coming all the way to Islamabad to attend this workshop.

Finally, I wish you success in your workshop.

Thank you very much.

Opening Speech by Mr. Bill Murray of the Rotterdam Convention Secretariat

Honourable Mr. Mian Muhammad Jamil, the Federal Secretary of Environment, Dear Mr. Khizar Hayat Khan, Joint Secretary, International Cooperation, Ministry of Environment. Ladies and Gentlemen:

On behalf of the Executive Secretary of the Rotterdam Convention, Mr. Peter Kenmore, and on my own behalf, I am honoured to welcome all of you to this national consultation on developing a national action plan for the implementation of the Rotterdam Convention.

A key objective of the Rotterdam Convention is to promote the shared responsibility among Parties in the international trade in hazardous chemicals. It covers both pesticides and industrial chemicals. The Convention has two key provisions, information exchange and the Prior Informed Consent or PIC procedure. Through these provisions the Convention in effect provides a first line of defence against hazardous chemicals.

The PIC procedure enables countries to monitor and control the trade in those chemicals listed in Annex III of the Convention. It is not a recommendation to ban the global trade or use of these chemicals. It does however give importing countries the power to make informed decisions as to which of these chemicals they want to receive and to exclude those they cannot manage safely. If trade does take place, requirements for labeling and the provision of information on the potential health and environmental effects of these chemicals will promote their safe use.

The Convention entered into force on 24 February 2004. At that time there were 50 Parties to the Convention. Today, three years later, there are 116 Parties. 13 states in the Asia region have ratified the Rotterdam Convention.

Pakistan ratified the Rotterdam Convention in July 2005, and has submitted import responses for the 28 pesticides included in the PIC procedure however no import responses have been submitted for the 11 industrial chemicals.

I note that Pakistan also ratified the Basel Convention. Integrating the work of the Rotterdam Convention with that of the Basle Conventions could provide an opportunity to fully benefit from the synergies that exist among these Conventions for example, in training of customs authorities. In our discussion this week I hope you will be able to build on this experience.

Within the technical assistance programme of the Rotterdam Convention, the Secretariat has facilitated a series of consultations to support Parties to identify the elements of national action plans for the implementation of the Convention. Since 2005, about 30 Parties have participated in these meetings. The plans define what needs to be done at the national level, by whom and when. They also serve to identify priorities for follow up actions and areas where further technical assistance is required. I am optimistic that the discussions that we undertake this week will assist you in addressing the challenges or obstacles that exist in implementing the Convention. We will also have an opportunity to learn more about the work underway on IPM in Pakistan and possible opportunities to strengthen links to such activities as a means of identifying alternatives to hazardous pesticides in particular severely hazardous pesticide formulations. We will also have an opportunity to complete the outstanding import response for industrial chemicals included in Annex III. Finally I am also optimistic that you will better understand the information available under the Convention and how it might be used to strengthen the chemicals management decision making in Pakistan

In closing I would like to thank Mr. Khizar Hayat from the Ministry of the Environment for the excellent preparatory work he has undertaken in developing the agenda for this meeting, choice of location and the many details that are required in finalizing all of the local arrangements.

I would like to once again welcome you to this meeting and assure you that we look forward to working with you over the next few days and to very fruitful discussions.

Thank you.

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Introduction and the Work Flow Sheet of the National Consultative Meeting on the Rotterdam Convention, 26-27 June, 2007 Islamabad

Rotterdam Convention came into force in February 2004. There are 116 parties to the Convention including 13 from Asia. Pakistan has ratified the convention in July 2005.

Within the Technical Assistance programme, the Secretariat of the Convention in cooperation with the Regional offices of the FAO and UNEP is facilitating a series of national and sub-regional consultations to support countries to develop national action plan for the implementation of the Rotterdam Convention. So far 27 parties have developed national action plans for the implementation of the Convention. These plans include an understanding of what needs to be done, by whom and when and also provides basis for identifying priorities for follow-up action.

In recent years, the Government of Pakistan has made significant efforts to establish and improve the national infrastructure for the management of chemicals. Rotterdam Convention should assist the Government to further improve national infrastructure in chemicals and pesticides management.

Overall Objective

The overall objective of this consultation is to facilitate a national dialogue involving relevant stakeholders on Rotterdam Convention to review current status of implementation and to identify the guidelines to develop a national action plan for the implementation of the Convention in Pakistan.

Participants

Different public/private sectors stakeholders participated in four days deliberations. The participants engaged themselves in detailed discussion on practical challenges and possible solutions and set the stage for further inter-ministerial cooperation to ensure follow-up of the meeting.

Pakistan has actively participated in FAO programmes on IPM and pesticides management. Given the fact that all these programmes are dealing with chemicals and pesticides management, it would be helpful to involve the lead agencies responsible for these ongoing relevant activities. The forum provided an opportunity to exchange experiences and identify possibility for collaboration.

Developing the Meeting Structure and Agenda

The consultation would provide an opportunity to:

- Ensure the understanding of the aims, objectives and requirements of the Convention;
- Foster inter-departmental or inter-ministerial cooperation among the stockholders in the implementation of the Convention;
- Develop, in a structured setting, a national action plan or strategy for the implementation of Rotterdam Convention.

The meeting was structured around the following general sessions. It was convened in the form of plenary discussions and breakout groups.

Formal Proceedings

Session one: opening ceremony.

<u>Session two:</u> The Secretariat provided an introduction of the Convention to highlight general principles and benefits of the Convention.

<u>Session three:</u> Government officials introduced the chemicals and pesticides management framework in Pakistan in general. The designated national authorities (DNAs) / Representatives presented the current status of implementation of the Rotterdam Convention, experience gained and challenges they are facing to. Key stakeholders of public sector introduced their role in the implementation of the Convention.

<u>Session four, five and six</u>: The following three sessions looked in detail at the specific operational elements of the Convention and how they might be implemented in Pakistan. The Secretariat introduced the key provisions of the Convention, namely provisions

related to the PIC procedure and information exchanges, how countries may make use and benefit from them. Presentations from DNAs reviewed the experience gained. Breakout groups further considered specific topics relevant to the implementation of the Convention and to propose possible solutions to the challenges identified. Returning to the plenary, participants consolidated the tabular report of the breakout groups for each of the topics, including what needs to be done, how, by whom and when.

<u>Session seven and eight:</u> Reviewed the interrelationship of the Rotterdam, with other relevant pesticides and chemicals management programme with an emphasis on how they complement each other. The breakout groups would reconvene to further consider the challenges identified previously with a focus on how they might be addressed. This would include: how to build on existing mechanisms of cooperation; opportunities to integrate work on the Rotterdam Convention with that on other relevant ongoing programmes. The tabular report was reviewed based on discussion in this session.

A drafting group composed of officials from the key authorities responsible for the implementation of the Convention was charged with developing an executive summary based on the consolidated results of the discussions in the previous sessions. The executive summary and the consolidated tabular report form the national action plan which is the key output of the meeting. The final session reviewed possibility for making of the plan for the implementation of the Rotterdam Convention.

Consolidated Set of Tables based on the Recommendations of the Participants

Import Response

Current legal infrastructure /admin procedure	What has been done?	What needs to be done?	Who is responsible / involved and how to do?
 Pakistan Environment Protection Act 1997 (PEPA 1997) Hazardous Substances Rules 2007 (to be notified) Trade policy /Import Policy Order 2006-07 /(Annex-A Banned Items and Annex-B Restricted Items) National Environment Policy 2005 Customs Act 1969 Agriculture Pesticide (Amendments) Ordinance 1997 (Originated from the Agriculture Pesticide Ordinance 1971) Official Registration Form # 16 & 17 available for pesticides registration 	 Import response for 26 pesticides have already been notified to RC Secretariat. Inter-Ministerial /Stakeholders Steering Committees for consultations/follow-ups on RC. 	 Exiting legislation should be reviewed and revised for updating remaining 2 pesticides (Heptachlor and methyl parathion) and industrial chemicals. Import responses for 2 pesticides and 11 industrial chemicals. Enhanced Inter- Ministerial coordination. Both the DNAs from Ministry of Food, Agriculture and Livestock (MINFAL) and from the Ministry of Environment (MoE) should actively collaborate in consultative processes in respect to RC. A technical advisory group need to be established for providing inputs to DNAs for:- Improvement in coordination between Public and private sectors. Establishment of procedures to communicate import decisions to those concerned within the country. Propagation of existing legislation and any change in legislation Improvement in Monitoring and Evaluation procedures and mechanisms. List of Annexure-III Chemicals needs to be displayed on website of line departments along with Material Safety Data Sheets (MSDS) 	 DNA from MINFAL for pesticides DNA from MoE for industrial chemicals. A Technical Advisory Group to be established for industrial chemicals and to be proposed by the DNAs to the National Steering Committee on SAICM

Notification

Current legal infrastructure /admin procedure	What has been done?	What needs to be done?	Who is responsible / involved and how to do?
 PEPA 1997 Agriculture Pesticide(Amendments) Ordinance 1997 (Originated from the Agri. Pesticide Ordinance 1971) Trade policy: Import Policy Order 2006-07 (Annex –A Banned Items and Annex-B Restricted Items Relevant sections of Factories Act 1934. Pesticides Registration forms #1, 16 and 17 Hazardous Substances Rules, 2007(Draft) 	• Twenty six (26) pesticides have been notified to RC Secretariat.	 Pesticides and chemicals be notified in the light of existing legislation Technical assistance from RC Secretariat for awareness campaign for stakeholders Development of Database of these Pesticides / Chemicals used in the country in accordance with Annexure-I. A Data Management Cell need to be established; Improvement in Monitoring and Evaluation procedures and mechanisms. 	The two DNAs:- • MINFAL • MoE In collaboration with: Ministry of Industries and Production, Ministry of Commerce, Central Board of Revenue and other relevant departments.

Export Notification

Current practice	What has been done?	What needs to be done?	Who is responsible/involved and how to do?
 Provision in Export Policy Order 2006-07 vide Import and Export Control Act 1950 (xxxix of 1950) Agriculture Pesticides Act 2006(in process) Pakistan is not an exporting country with reference to hazardous chemicals and pesticides. 	 Acknowledgement of Export Notifications to the exporting countries. Trade policy already exists which is reviewed annually and as and when required. 	 Pesticides and chemicals need to be notified in light of existing legislation Technical assistance from RC Secretariat for awareness campaign for stakeholders Development of Database of these Pesticides / Chemicals used in the country. A Data Management Cell need to be established; Improvement in Monitoring and Evaluation procedures and mechanisms. 	 MINFAL and MoE, the two DNAs in Pakistan Information provided by exporters is to be used by the Policy makers and regulators, and R&D Institutes.

Proposals for SHPF

Available infrastructure for pesticides poisoning report	What has been done?	What could be done in the future?	Who is responsible / involved and how to do?
 Agriculture Extension Department Pakistan Medical Research Council National Institute of Health CABR-Bio-sciences has published some information on pesticides poisoning 	• Fragmented studies have been done by R&D Institutes and Universities	 All the fragmented information needs to be compiled at the National level; Capacity building of stakeholders on Harmonized System codes and Material Safety Data Sheet (MSDS) 	 DNAs /MINFAL, MoE, Ministry of Health; Health Department workers, Agriculture Extension Officers, Doctors, Teachers and Environmental Inspectors should contribute; Existing legislation should be reviewed and revised in context of RC requirements.

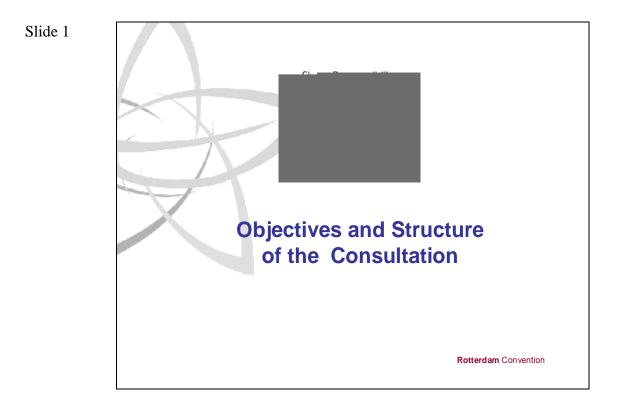
Presentations

of

Working Groups

Sessions 2 -7

Session 2, Presentation # 1, by Mr. Bill Murray



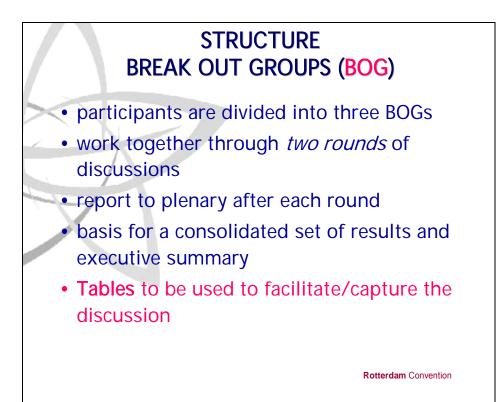


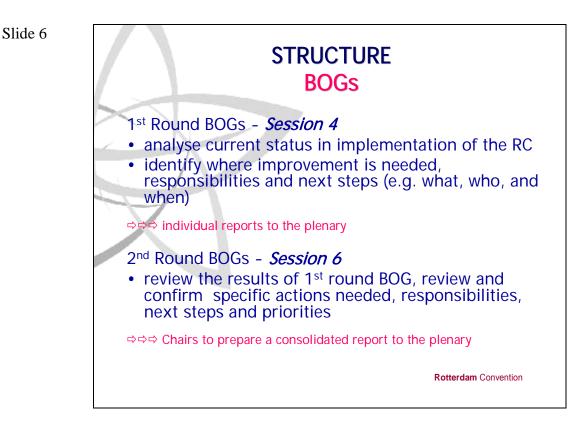














STRUCTURE PLENARY

- Session 4 Review and discuss outcome of 1st round of individual BOGs
- *Session 6* Review and agree on consolidated BOG reports including specific actions needed, responsibilities, next steps including timelines and priorities
 - Session 7 Review and agree on executive summary/introduction to consolidated BOG reports

Rotterdam Convention

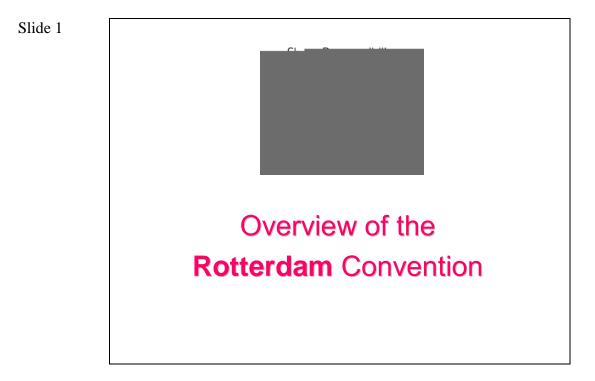


FINAL REPORT

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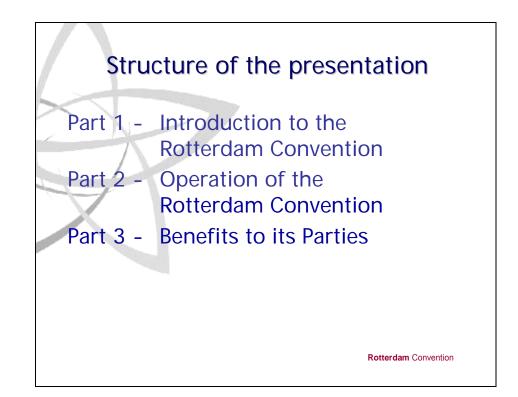
- the executive summary/introduction,
- prepared by drafting group and agreed in Plenary
 - consolidated tabular report from the BOGs
 - define priorities and activities for the short, medium and longer term

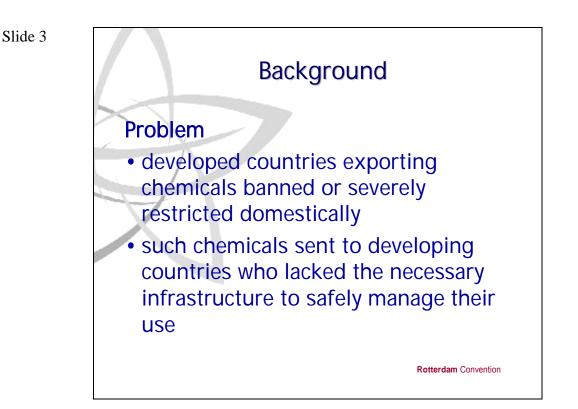
Rotterdam Convention

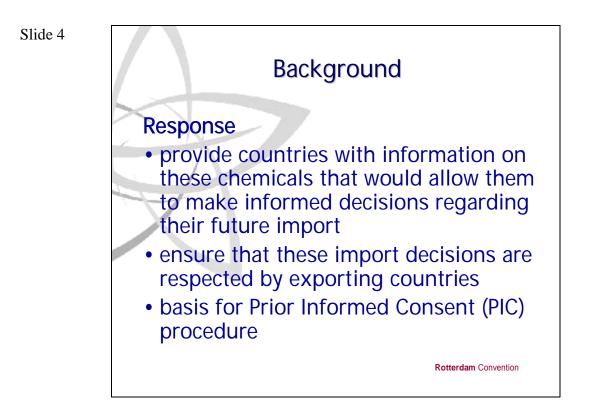


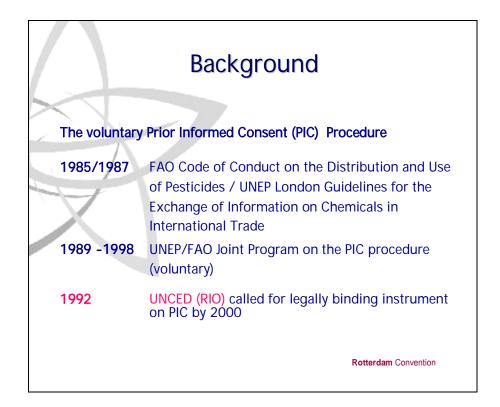
Session 2, Presentation # 2, by Mr. Bill Murray



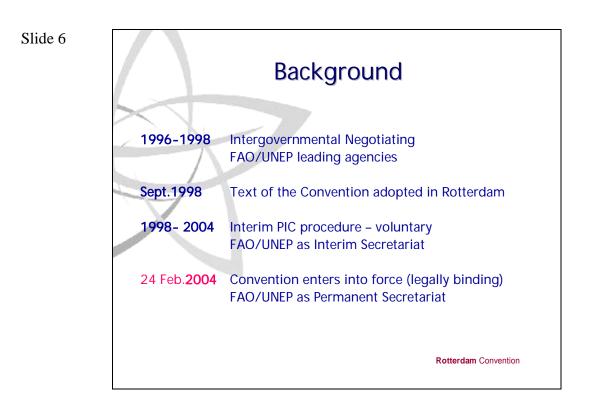








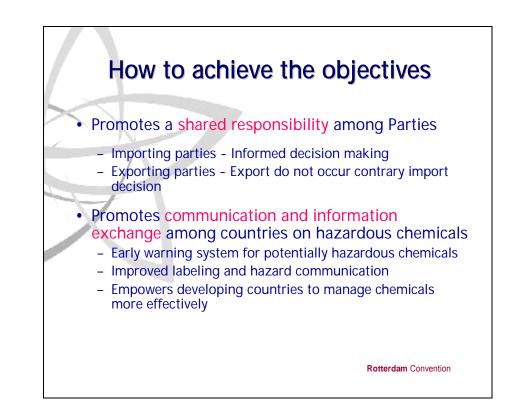
Slide 5







Slide 7

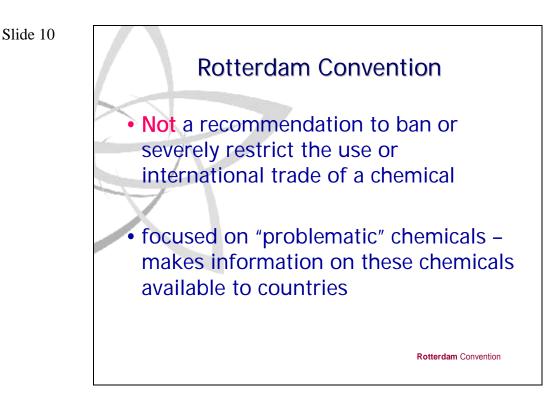


Key Provisions

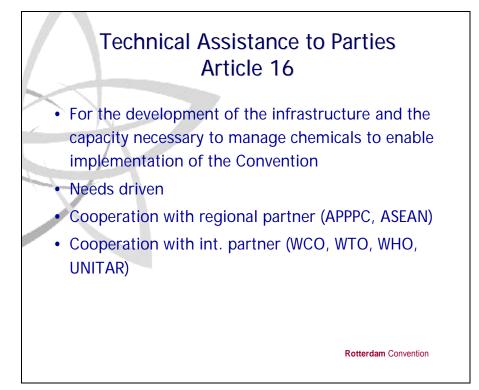
 Information exchange - on a broad range of banned or severely restricted chemicals

 PIC procedure - Provide for a national decision making process on import of hazardous chemicals in Annex III and to ensure compliance with these decisions by exporting Parties

Rotterdam Convention



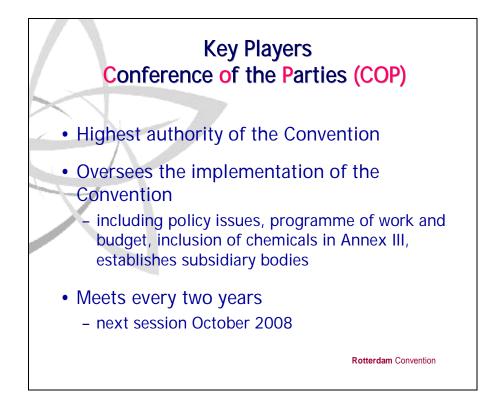


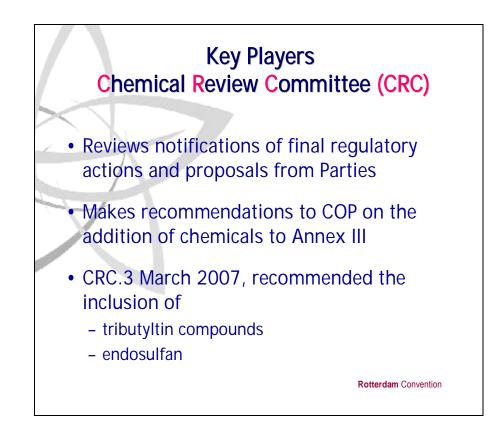


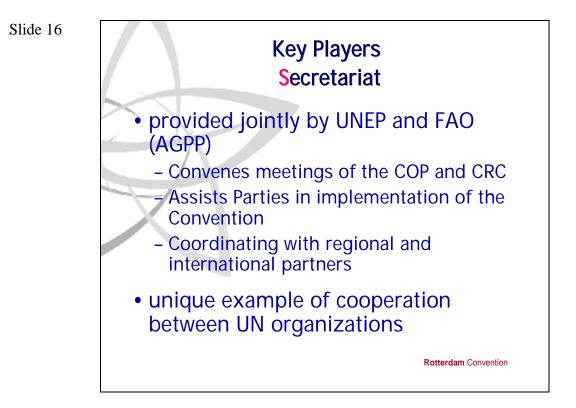


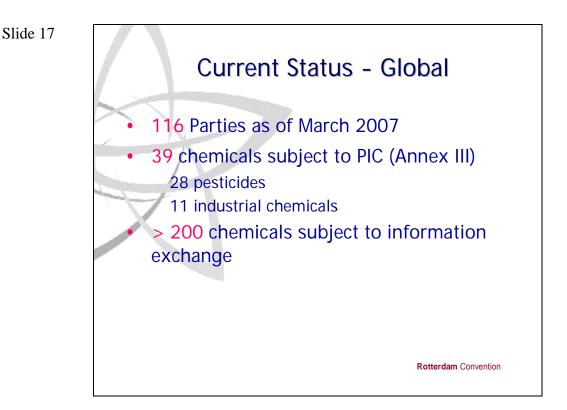


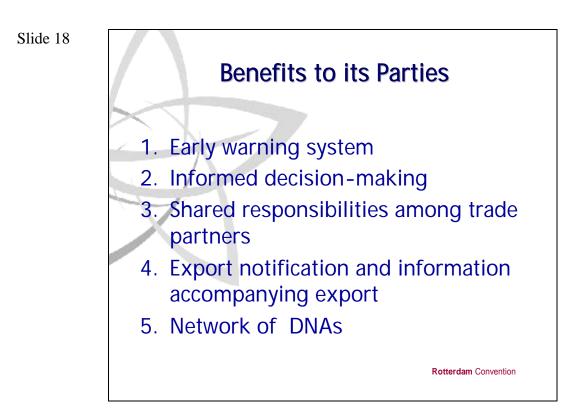




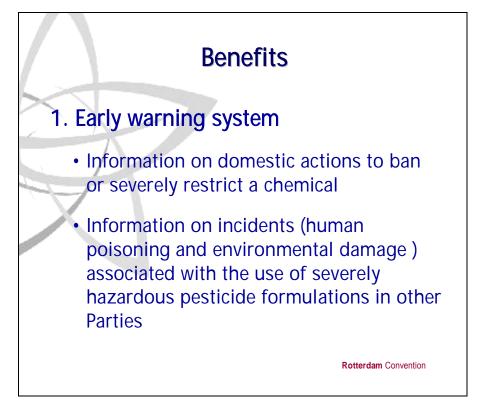


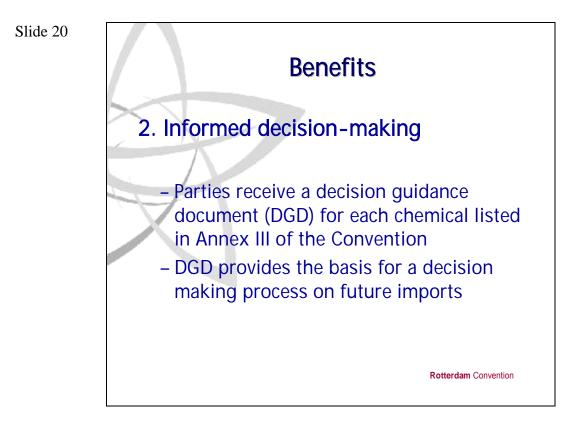






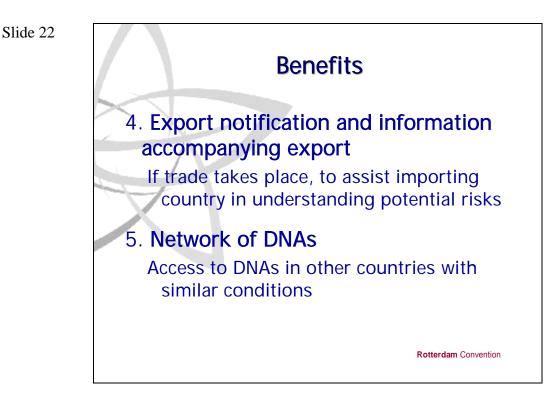
















 Complements the activities of the Basel Convention and the Stockholm Convention

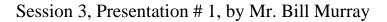
 Taken together the three Convention provide a overall framework to assist in the lifecycle management of chemicals and pesticides

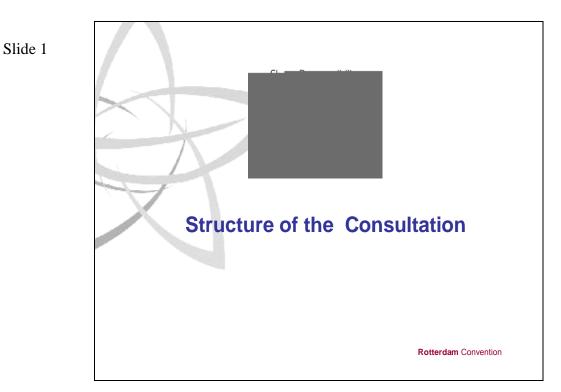
Rotterdam Convention







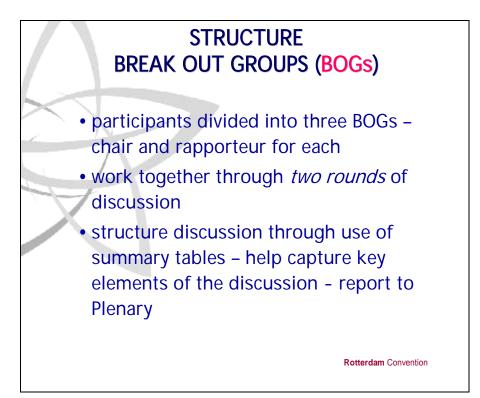


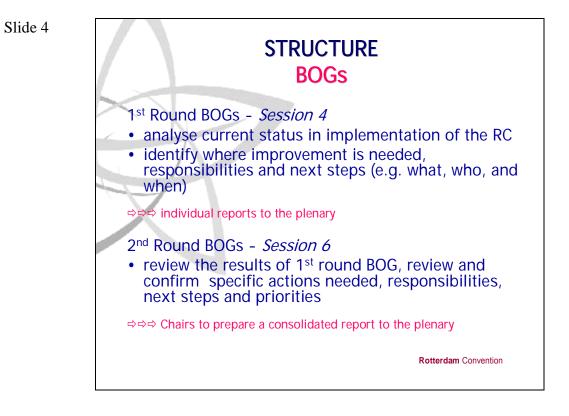


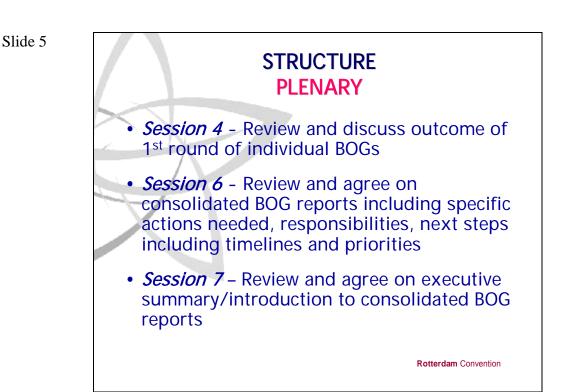


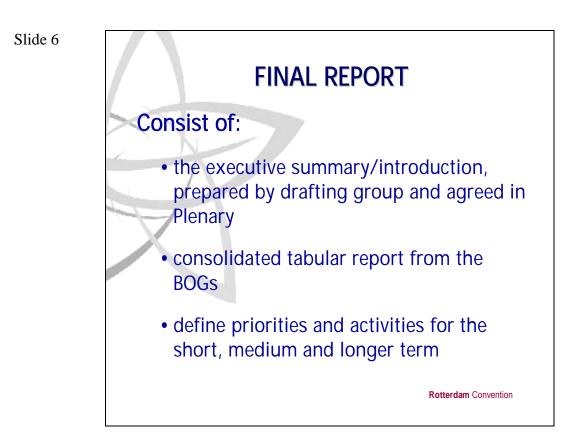




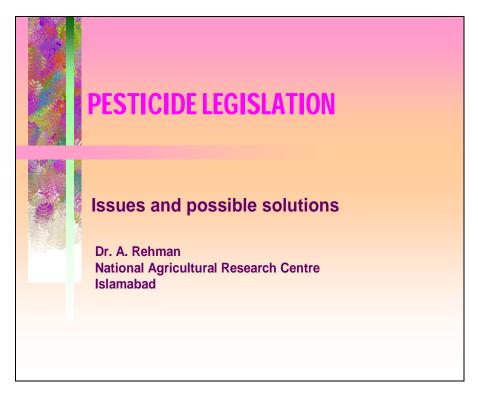






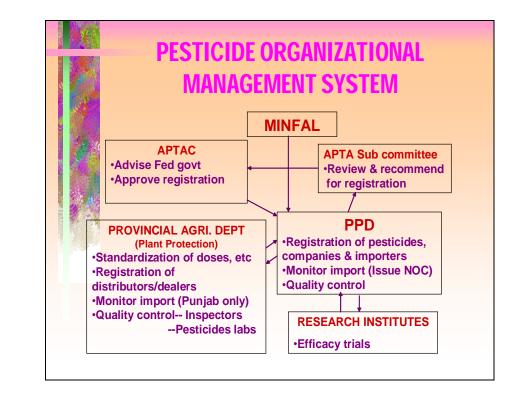


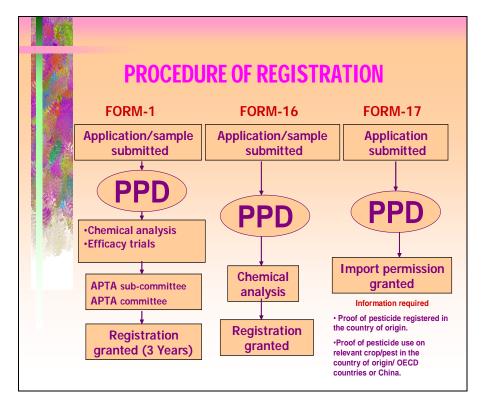


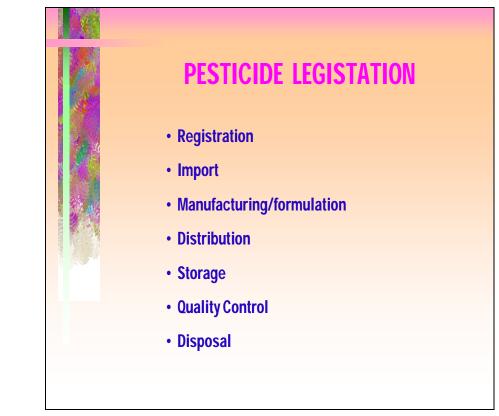


		PI	ESTICIDE POLICIES IN PAKISTAN
	4	1954	Import of pesticides started- 254 mt to control locust.
		1954-65	Introduction of HYV, distribution of pesticide free of cost by public sector.
		1966-74	Subsidized price upto75% from Rs.0.25/lit; promulgated Agricultural Pesticide Ordinance (now Act) in 1971; framed Agricultural Pesticide Rules in 1973.
1.5.5.5	12	1970s	IPM research project initiated.
	3	1975-79	50% subsidy on ECs/WPs and 75% subsidy on granules; 25% distribution by public sector and 75% by private sector.
		1980-85	Complete withdrawal of subsidy except in Balochistan; complete distribution by private sector, except in Balochistan. Adopted FAO's International Code of Conduct for pesticide registration.

		Continue
	1986-91	Complete withdrawal of subsidy in all provinces; complete distribution by private sector.
	1992	Amended the Pesticide Ordinance and made relaxation in pesticide import
1		i) Introduction of generics
		ii) Pesticide registered in the country of origin, can be imported without local registration.
1 15 10	1992-93	Duty and surcharge REDUCED (10%) on herbicides.
8 2 M	1993	Sale tax exemption on pesticides.
	1994	Banned 23 environmentally hazardous pesticides.
	1997	Amended The Pesticide Ordinance to Strengthened the punishment provision for pesticide adulteration.
	1998	Import permission restricted to those w/c are not registered under Form-1 and Form -16.
	2001	Printing of 'It is poison to be used carefully' on labels.



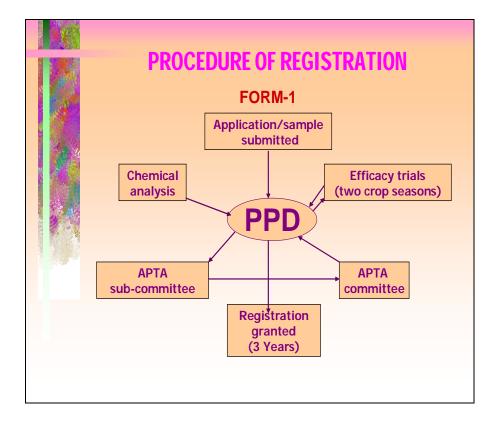




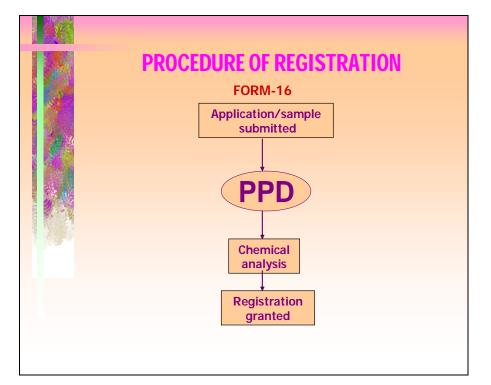


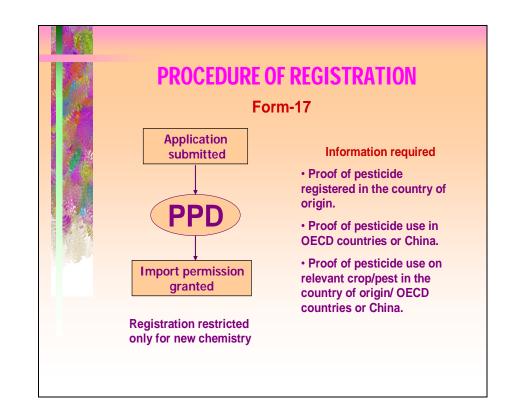


- Registration under trade name (Form 1) 1973
- Registration under generic scheme not having trade name (Form 16) 1993
- Import permission for pesticide registered in the country of manufacture (From 17) 1993









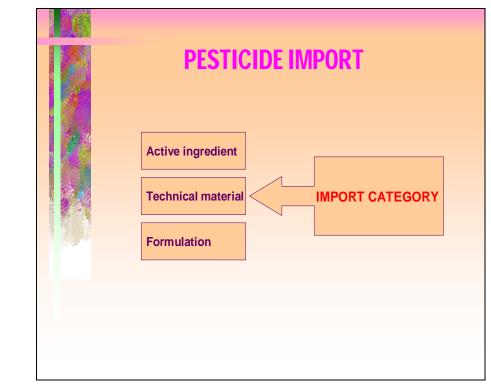


PRODUCTS	REG	ISTERED	
Form 1	=	498	
Form 16	=	792	
Form 17	=	826	
Total		2116	

	REGISTR	UTION FEE
	Year	<u>Fee (Rs.)</u>
	1973	500
	1980	1000
19	1990	2500
	1996	25000
	Renewal fee:	2500 to 5000

 Too liberal registration (Form 16, &17). Registration of bio- pesticides too easy. Need to emend registration procedure. Need to emend registration procedure. PPD PPD, CABI BioScience, Agri. 	 Too liberal registration (Form 16, &17). Registration of bio- pesticides too easy. Need to emend registration procedure. Need to emend registration procedure. PPD PPD, CABI 		ISSUES	CIDE REGISTI	
 registration (Form 16, &17). Registration of bio-pesticides too easy. Need to emend registration procedure. Too little information on non-target sp. Data requirements should be in line with local needs. Federal/PPD Federal/PPD PPD PPD, CABI BioScience, Agri. 	 registration (Form 16, &17). Registration of bio-pesticides too easy. Too little information on non-target sp. Data requirements should be in line with local needs. Need to emend registration procedure. PPD PPD, CABI BioScience, Agri. 			ACTIONS	RESPONSIBLE
 pesticides too easy. registration procedure. • Too little information • on non-target sp. Data on toxicity of n.e. should be mandatory • PPD, CABI BioScience, Agri. 	 Pesticides too easy. Pesticides too easy. registration procedure. PPD, CABI BioScience, Agri. 	to a	registration (Form 16,	should be in line	•Federal/PPD
on non-target sp. n.e. should be mandatory BioScience, Agri.	on non-target sp. n.e. should be mandatory BioScience, Agri.		• • • • • • • • • • • • • • • • • • •	registration	•PPD
Res. Inst.				n.e. should be	BioScience, Agri.

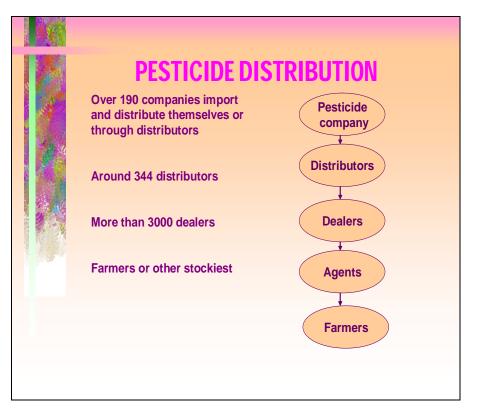


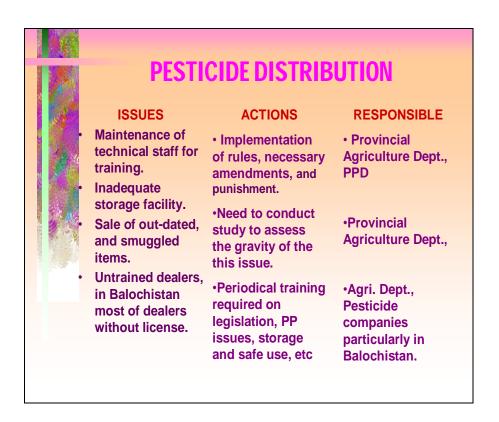


PESTICIDE IMPORT ISSUES ACTIONS RESPONSIBLE Notification be made, Availability of • •PPD, Commerce reference samples to should include in test quality/NOC for ministry. Import Policy Order. imported consignment. •CBR, Commerce Taxation on raw • Reduce taxation to ministry. material (finished encourage local form. products cheaper). Import of PIC products, Strict action against •MINFAL, PPD. w/o permission. such imports . Smuggling of banned •Custom Dept. Need to be stopped & products. Provincial Agri. Dept. strict monitoring of market.

	• No loc • 25 for	TURE/FORMU cal manufacturing plant mulation plants ocally formulated	
14-11	ISSUES	ACTIONS	RESPONSIBLE
	Maintenance of technical staff, working conditions, well equipped labs, poor industrial hygiene and inadequate storage facility.	 Implementation of law in true spirit. Strengthen monitoring and cancel registration 	Provincial Agriculture Department





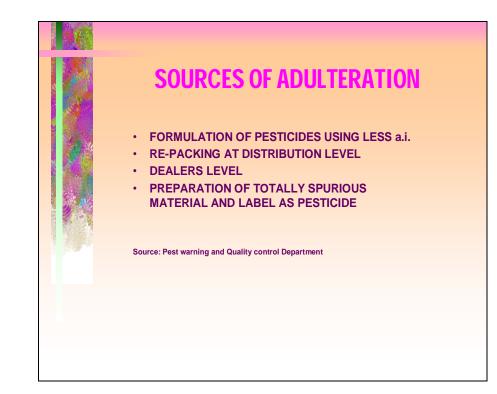




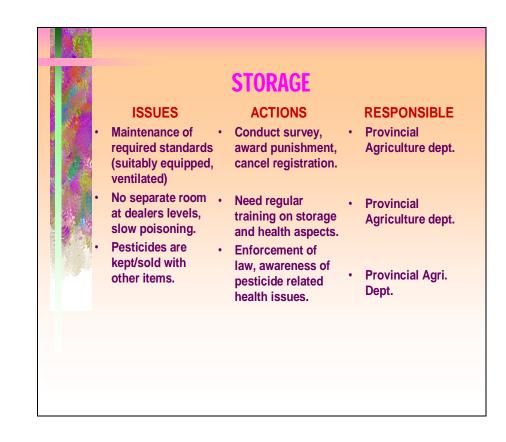
	QUA	LITY CON	IIKUL
	QUALITY CONTRO	L LABS	INSPECTORS
<u>u</u>	Federal	2	-
E .	Punjab	3	250
	Sindh	2	74
14	NWFP	1	40
1	Balochistan		29
2	Total	8	393

Pesticides Quality Status (1998-99)

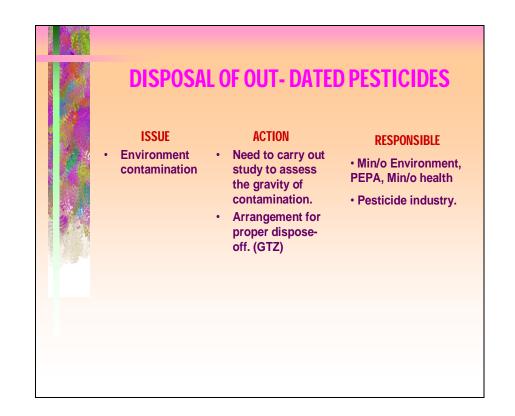
Activity	Pu	njab	Sir	ndh	То	tal
	1998	1999	1998	1999	1998	1999
Analysed	2995	1892	151	1139	3146	3031
Fit	2739	1829	135	1092	2874	2921
Unfit	252	63	16	47	268	116
Unfit (%)	8.41	3.32	10.59	4.12	8.51	3.62
Source: Departmen	t of Plant Pro	otection, Karac	hi			
		•				



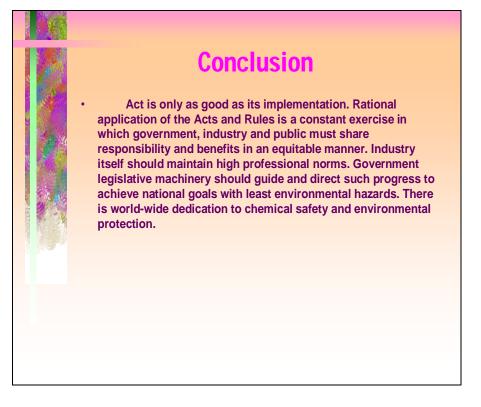
		ALITY CONTRO	L
	ISSUES Large no. samples, lengthy analysis period (under staffed, not well equipped, no funds). Non-existence of lab	ACTIONS Strengthened labs. Creation of cess fund. Establish pesticide lab in Balochistan. 	RESPONSIBLE PPD., Provincial Agri. Dept. Industry. Balochistan Govt.
	in Balochistan. Sale of doubtful products continue.	Should not allow, notify guide lines.	Provincial Agri. Dept.
•	Lengthy and slow court procedures.	 Speedy procedures. Appoint special magistrates. 	Judiciary, Provin. Agri. PPD
		Training about law.	



	PESTICIDE USE	
ISSUES No legislation on indiscriminate use/residue limit Misuse of pesticides (non- target crops/ pests) 	ACTIONS • Carry out study to assess the issue, and frame legal restrictions. • Need regular training on safe use of pesticides.	RESPONSIBLE •PPD, and Provincial Agri. Dept. •Agri. Dept. Pesticide industry,
Poor application techniques, faulty spray equipment	•Need education	•Agri. Dept. Pesticide industry,
Lack of awareness of pesticide related issues and appropriate protection.	•Need to design protective gearing according to local need.	•Pesticide industry.



	POSITION OF OUT	- DATED PESTICIDES	;
	PROVINICE	QUANITY M.TONS	
	Punjab	3805	
	Sindh	2016	
	NWFP	179	
	Balochistan	128	
A CON	Federal (PPD)	178	
	Total	6306	
	Source: PPD, Karachi		



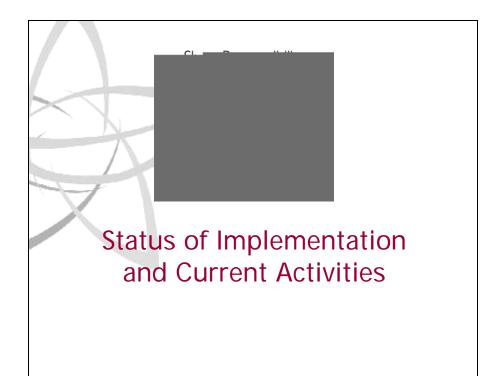
SUGGESSIONS

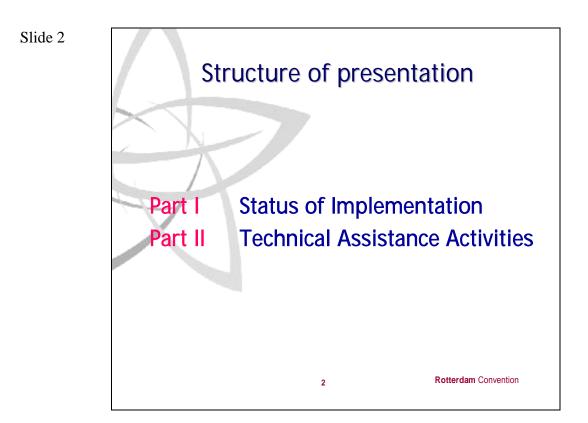
Constitution of body comprising all stakeholder to ensure quality. Pesticide legislation should be in local language and made

- available to farmers and general public.
- The inventory of natural enemy friendly pesticide should be made.
- Non-agricultural use of pesticides should be totally banned.
- Pesticide against insect developed resistance should be banned and de-registered.
- Like National Environmental Quality Standards for Municipal and Liquid Industrial Effluents, quality standards for pesticides should be fixed for environment and health.
- Pesticide adds. on media should be followed with some message regarding pesticide associated problem.
- Constitute IPM legislation and implementation.

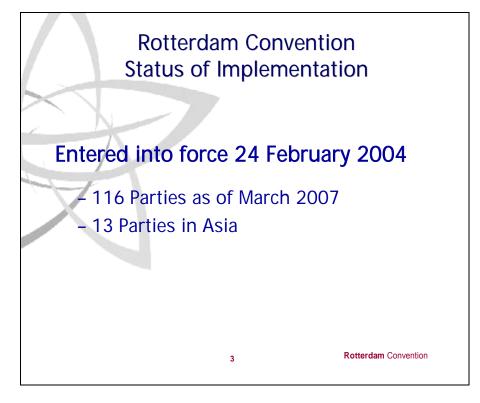
Session 3, Presentation # 3, by Mr. Bill Murray









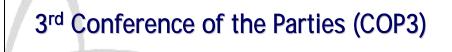


39 Chemicals in Annex III	
currently	

PESTICIDES: 2,4,5-T, aldrin, <u>binapacryl</u> , captafol, chlordane, chlordimeform, chlorobenzilate, DDT, dieldrin, dinoseb and dinoseb salts, <u>DNOC and its salts</u> , 1,2-dibromoethane (EDB), <u>ethylene</u> <u>dichloride</u> , <u>ethylene oxide</u> , fluoroacetamide, HCH (mixed isomers), heptachlor, hexachlorobenzene, lindane, certain mercury compounds, <u>monocrotophos</u> , <u>parathion</u> , pentachlorophenol, <u>toxaphene</u> ;
SEVERELY HAZARDOUS PESTICIDE FORMULATIONS OF: methamidophos, methyl-parathion, phosphamidon; <u>dustable powder</u> formulations containing a combination of benomyl, carbofuran and <u>thiram</u> ;
INDUSTRIAL CHEMICALS: asbestos (actinolite, anthophyllite, amosite, crocidolite, tremolite), polybrominated biphenyls (PBBs), polychlorinated biphenyls (PCBs) polychlorinated terphenyls (PCTs), tris (2,3-dibromopropyl) phosphate, tetraethyllead (TEL), and tetramethyl lead (TML).







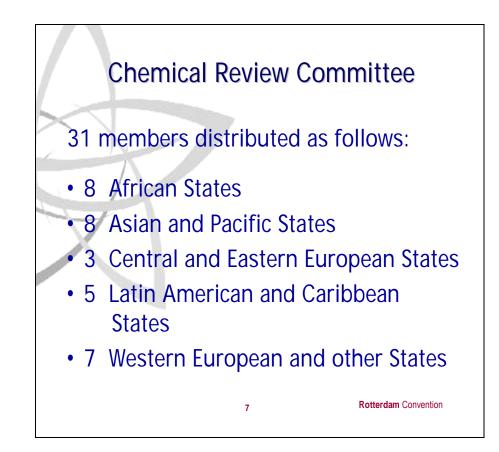


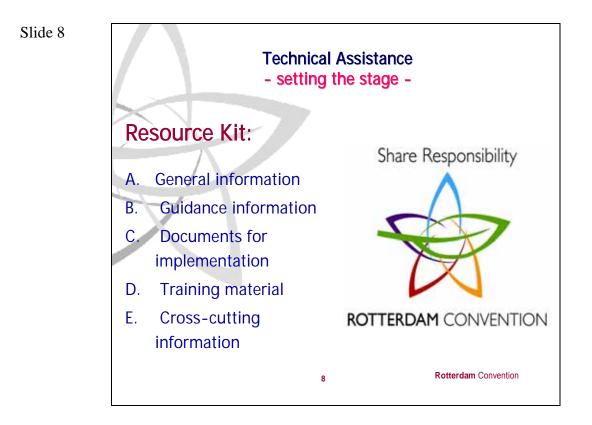
- Adopted the program of work and budget for 2007-2008
- Adopted technical assistance program for 2007-2008
- A ministerial segment was held: "Towards full implementation of the Rotterdam Convention: opportunities and challenges"

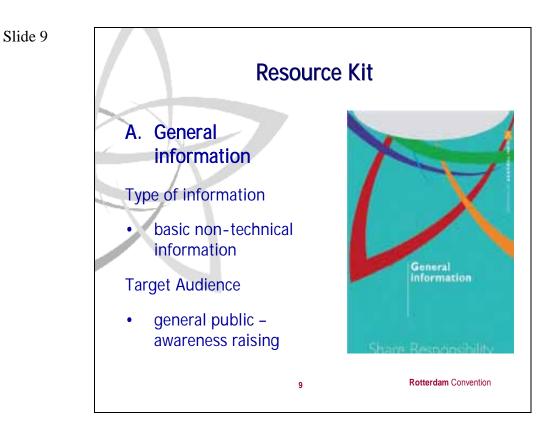
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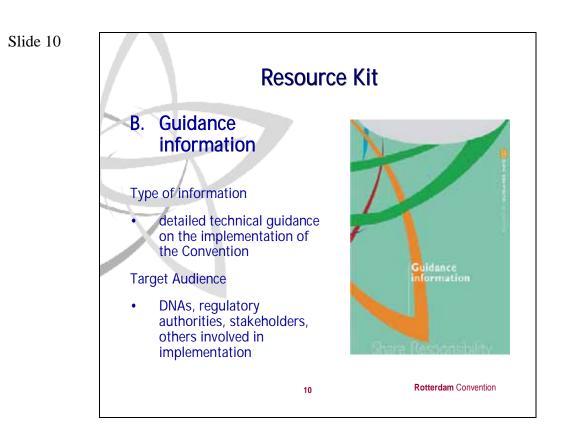
Rotterdam Convention

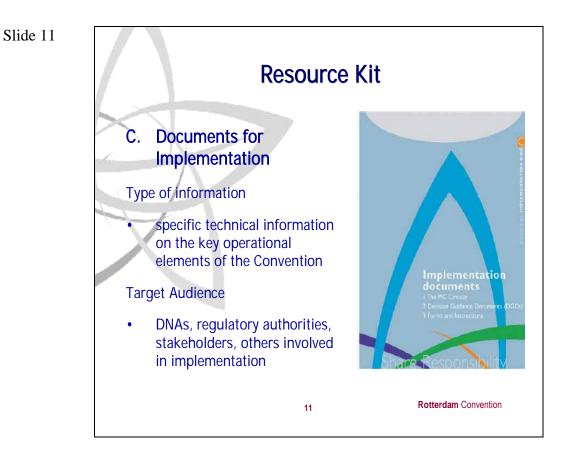
• COP.4 - October 2008 (Rome)

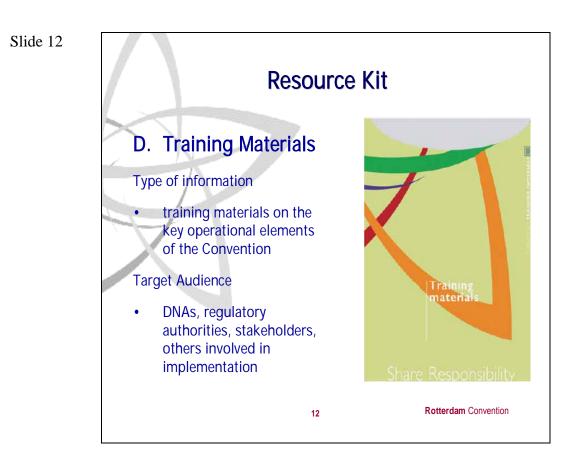


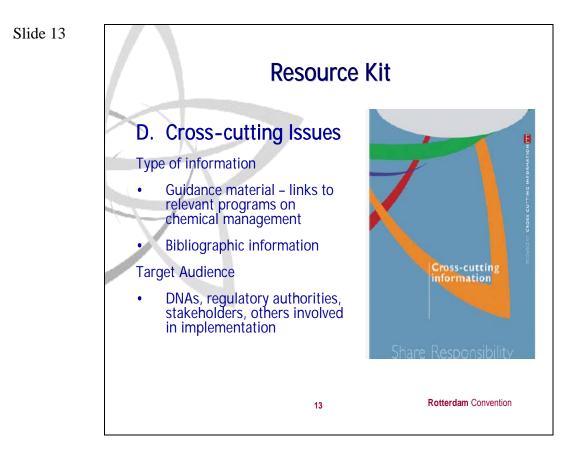














STATUS OF INDUSTRIAL CHEMICALS REGULATION IN PAKISTAN AND OPPORTUNITES OF THE ROTTERDAM CONVENTION IN IMPROVING INDUSTRIAL CHEMICALS MANAGEMENT IN PAKISTAN

JOINT SECRETARY (INTERNATIONAL COOPERATION) / DNA FOR INDUSTRIAL CHEMICALS

GOVERNMENT OF PAKISTAN MINISTRY OF ENVIRONMENT

JUNE 26, 2007

Slide 2

BRIEF INTRODUCTION OF THE ORGANIZATION

Ministry of Environment:

The Ministry is responsible for;

National Environment Policy, Planning and International Environment Coordination. More information on various aspects of the Ministry is available on its web site

www.moenv.gov.pk

The Secretary, being the head of the Ministry has the responsibility for;

• Assisting the government in the formulation and implementation of environment policy, strategies and action plans at national level.

STATUS OF THE ENVIRONMENT IN THE PAKISTAN

- Pakistan has prepared and enforced the National
 Environment Quality Standards (NEQS) for monitoring of
 the industrial and other environment pollution.
- The most significant achievements in the recent years are incorporation of environmental concerns in government policies and initiation of the process of Environmental Impact Assessment (EIA) in the development schemes.

Slide 4

PAKISTAN & MULTILATERAL ENVIRONMENTAL AGREEMENTS (MEAs)

In line with the global commitments for environment protection, Pakistan has actively participated in chemicals relevant conventions like

- Basel Convention on the Control of Transboundary Movement of Hazardous waste and their Disposal
- Rotterdam Convention on Prior Informed Consent for Certain Hazardous Chemicals
- Stockholm Convention on Persistent Organic Pollutants
- Strategic Approach to International Chemical Management (SAICM)
- Montreal Protocol on Ozone Depleting Substances (ODS)

Cont'

PAKISTAN & MULTILATERAL ENVIRONMENTAL AGREEMENTS (MEAs)

Pakistan has ratified almost a dozen other multilateral environment agreements, which are being successfully implemented like

- Stockholm Conference on Human Environment
- Rio Conventions
- Convention on Biological Diversity (CBD)
- United Nations Framework Convention on Climate Change (UNFCCC)
- Convention to Combat Desertification (CCD).

Slide 6

GOVERNMENT POLICY AND LEGAL FRAMEWORK REGARDING ENVIRONMENT:

National Environment Policy:

The first ever Environment Policy of Pakistan was approved on 29 June 2005 by the Federal Cabinet.

provides an overarching framework for addressing the environmental issues faced by Pakistan. In particular water pollution, air pollution. solid waste management, deforestation, loss of biodiversity, desertification, natural disaster and climate change are the major issues covered by the policy.

 It also gives directions for addressing the crosssectorial issues as well as under lying causes of environmental degradation and meeting international obligations.



THE OBJECTIVES OF THE NATIONAL ENVIRONMENT POLICY ARE:

- Conservation, restoration and efficient management of environmental resources.
 - Integration of environmental considerations in policy making and planning process.
- Capacity building of government agencies and other stakeholders at all levels for better environment management.
- iv. Meeting international obligations effectively in line with the national aspirations.
- v. Creation of a demand for environment through mass awareness and community mobilization.

Slide 8

LEGAL FRAMEWORK REGARDING ENVIRONMENT:

The Pakistan Environmental Protection Act was enacted on 6th December 1997 to provide for;

The protection, conservation, rehabilitation and improvement of environment

 The prevention and control of pollution, and promotion of sustainable development.

Cont'



Legal Framework regarding Environment:

The Act particularly focuses on;

Implementation of Council's policies

- Delegation of powers to government agencies
- Enforcement of National Environmental Quality Standards
- > Introduction of EIA/IEE review procedures/system,
- > Regulatory regime for hazardous substances/wastes
- Resource generation through establishment of Provincial Sustainable Development Fund and levy of Pollution Charge and providing appellant forum for environmental cases.

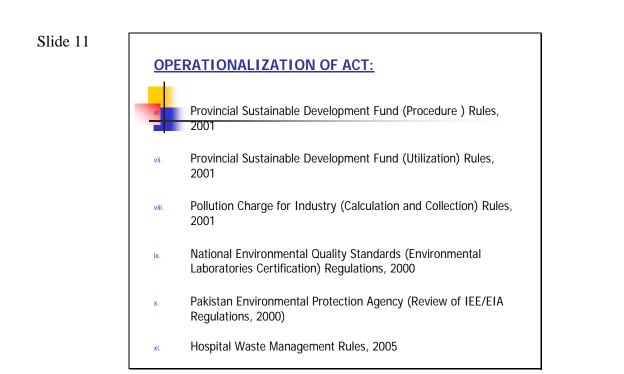
Slide 10

OPERATIONALIZATION OF ACT:

Scon after the enactment of new law, Ministry of Environment set its a writies to operationalize its provisions. The following rules and regulations have so far been finalized in consultation with stakeholders:

- Pakistan Environment Protection Act, 1997.
- Establishment of the Pakistan Environment Protection Council, Rules 1998.
- Delegation of powers to the Provincial Governments, Rules 1998.
- National Environmental Quality Standards (Self-monitoring and Reporting by Industries) Rules, 2001
- v. Environmental Samples Rules, 2001

Cont'



OVERVIEW ON CHEMICAL INDUSTRY

Chemical Industry is collection of large number of industries including but not limited to chemicals & material industry, Agrochemical industry, Pharmaceutical industry, Plastic, Rubber & Polymer industry, Petrochemical industry, Paints & Coating industry, Paper & Pulp industry, and fertilizer industry etc.

The chemical units are wide spread throughout the country. There are around;

- Three units of Soda Ash
- 8 units of Caustic Soda
- 18 units of Sulphuric acid
- 300 units of paint & Coating.
- 7 units of plastic industry
- 700 organized and around 5000 un-organized units throughout the country.

Cont'

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Slide 13
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CHEMICAL MANAGEMENT IN PAKISTAN

At present, National Disaster Management Authority (NDMA) is focal point for Emergency Coordination in case of chemical disaster in the country. NDMA is being assisted by Ministry of Industries, Ministry of Foreign Affairs, Central Board of Revenue (CBR), Ministry of Environment and Ministry of Commerce. In this regard. CBR is managing import / Export control system related to different chemicals. The matters related to pesticides industry are being managed by the Ministry of Food, Agriculture and Livestock.

Cont'

Slide 14

CHEMICAL MANAGEMENT IN PAKISTAN

 Inventories on sources of PCBs, Dioxins, Furans and POPs pesticides have been initiated by in accordance with guidelines prepared by the secretariat of Stockholm Convention

Kasur Tannery Pollution Control Project (KTPCP) is treating 12700 M³ tannery waste water of 237 leather industries in Kasur.

• Cleaner Production Center (CPC) is working to introduce CP technologies in Sailkot.

• Individual waste water treatment plants are working in different industries like Textile, Dairy, Paper and Pulp etc.

Cont'

CHEMICAL MANAGEMENT IN PAKISTAN

 UNITAR has approved Pilot Project (2006-09) for SAICM Implementation in Pakistan to Develop and Integrated National Programme for the sound management of chemicals and waste, with a focus on strengthening governance, stakeholder participation and public – private partnership.

 Mercury Inventory Pilot Project (2007) has been approved by United Nations Environment Programme (UNEP) for Pakistan.

Slide 16

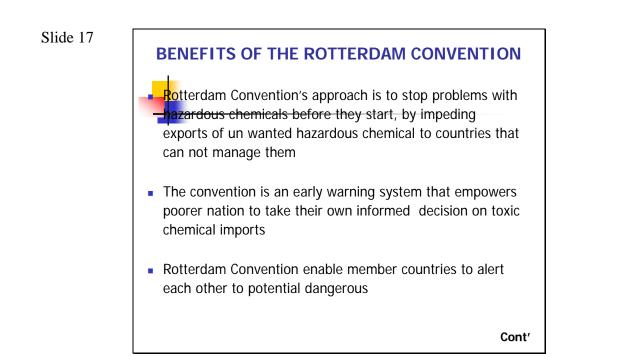
PAKISTAN AND ROTTERDAM CONVENTION

• Rotterdam Convention came into force in February 2004. There are 116 parties to the Convention including 13 from Asia. Pakistan has ratified the convention in July 2005.

After the ratification of Rotterdam Convention, Pakistan is strictly fulfilling its obligations about Prior Informed Consent (PIC) with other signatories of the Convention

• In recent years, the Government of Pakistan has made significant efforts to establish and improve the national infrastructure for the management of chemicals.

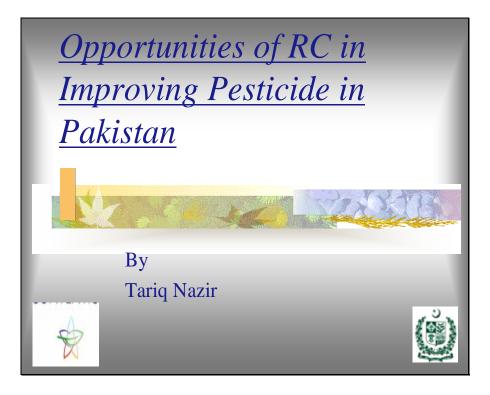
 Rotterdam Convention would assist the Government to further improve national infrastructure in chemicals



BENEFITS OF THE ROTTERDAM CONVENTION

- This convention includes a list of chemical and pesticides that are subject to the legally binding prior informed consent procedure
- The Convention guarantees the cooperation of other Governments on known and existing risks through its provisions regarding information sharing, export notifications and the PIC procedure.
- It calls for the provision of technical assistance to help established the infrastructure and capacity necessary to safely manage chemicals

Session 3, Presentation # 5, by Mr. Tariq Nazir







The convention creates legal binding obligations for implementation of Prior Informed Consent (PIC) Procedures as set out in the UNEP Amended London Guidelines for the exchange of Information on Chemicals in International Trade called "Amended London Guidelines") and the FAO International Code of Conduct on the Distribution and Use of Pesticides.







• This Convention applies to:

- Banned or severely restricted chemicals; and
- Severely hazardous pesticide formulations.



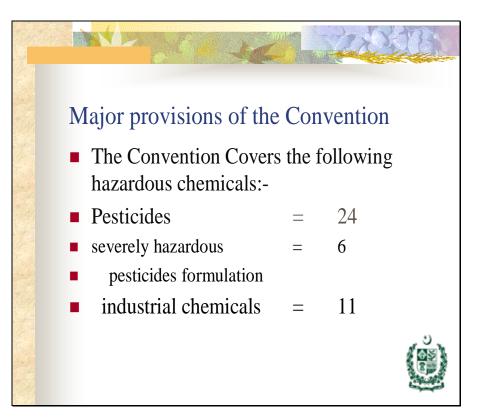
Slide 6

Obligation of the Parties / States under the Convention

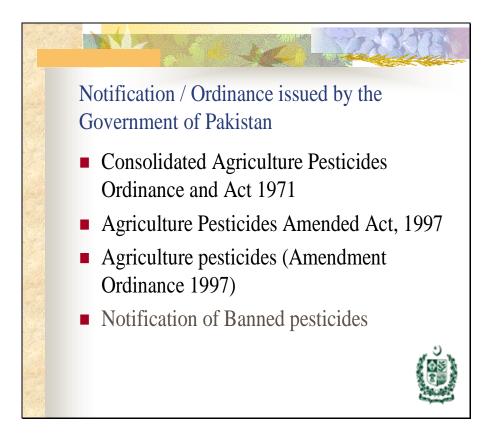
- ✓ Import and export of chemicals in Annex-III; the parties shall implement appropriate legislative and administrative measures to comply with the decisions under Article 10 and 11.
- ✓ The parties will provide an export notification to the importing party regarding the banned or severely restricted chemicals under Article 12.
- The exchange of scientific, technical, economic and legal information including toxicological, eco-toxicological and safety information under Article-14.









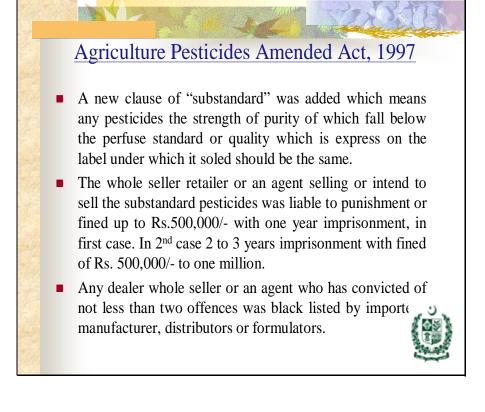


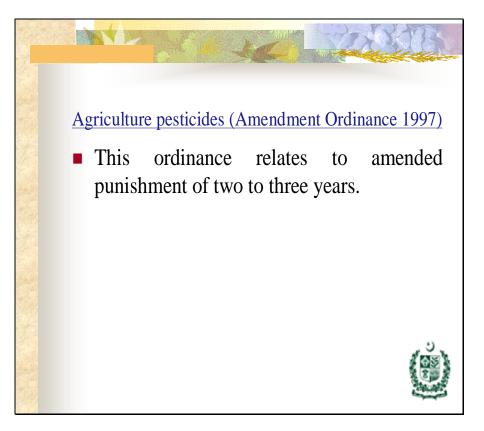
Consolidated Agriculture Pesticides Ordinance and Act 1971

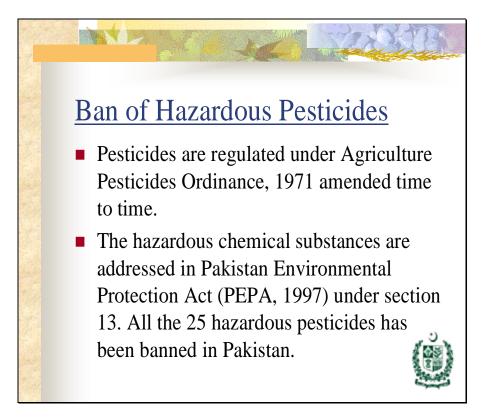
NYP

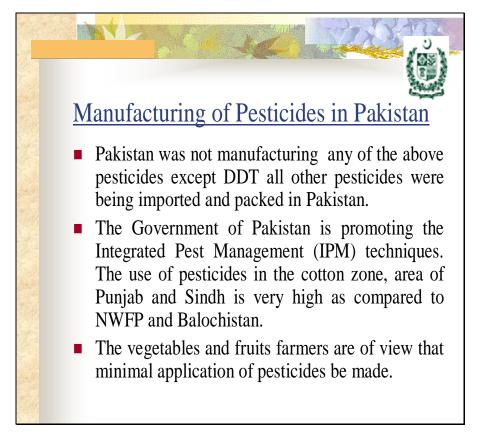
- Address adulteration, registration, labeling and quality control. Injurious to vegetables or human / animal health.
- Each importer was required a lab test before import.
- The any dealer whole seller retailer or agent was required to be registered with the Federal Government.

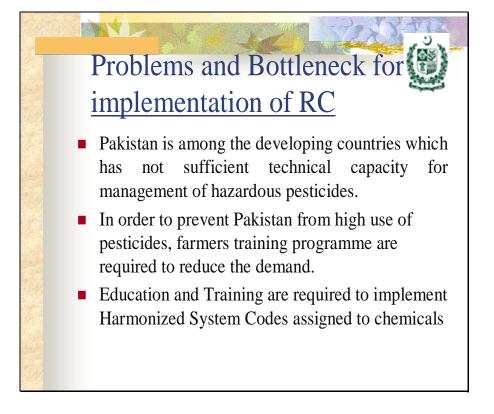






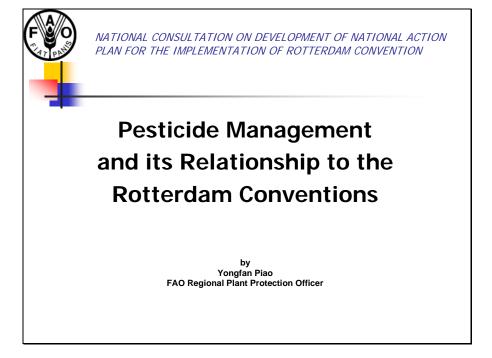






Session 3, Presentation # 6, by Mr. Yongfan Piao

Slide 1

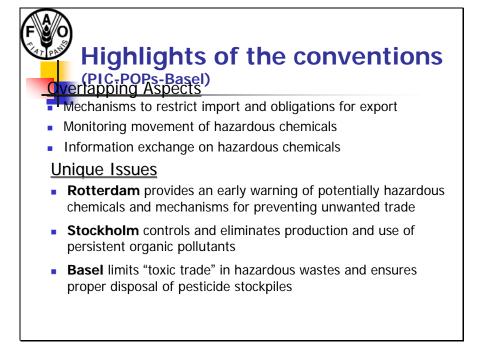


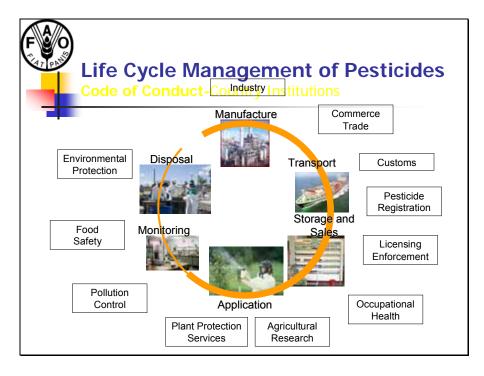
Slide 2

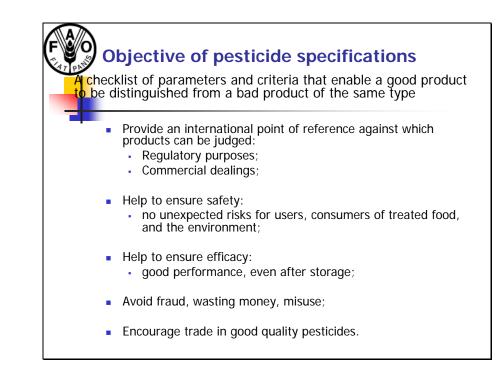
Annual Pesticide Consumption

Country	Ton a.i.	Ton Product	\$ '000 Value	t prod/ai	\$/ton a.i.	\$/ton Prod.
Bangladesh	3,635	22,100	75,000	6.1	20.6	3.4
Cambodia	42	198	226	4.7	5.4	1.1
China PR	258,000	1,000,000	5,670,000	3.9	22.0	5.7
DPR Korea	3,000					
India	41,020					
Korea Rep of	26,610		842,638		31.7	8.4
Lao PDR	10					
Malaysia	51,065		85,020		1.7	0.4
Myanmar		3,030				
Nepal	145		2,100		14.5	3.6
Pakistan		129,589	172,300		5.3	1.3
Philippines		31,735				
Sri Lanka	1,696	6,329	49,000	3.7	28.9	7.7
Thailand	49,108	132,509	253,537	2.7	5.2	1.9
Vietnam	24,473	50,000	159,000	2.0	6.5	3.2
	400.00/	4 05/ 455				
	499,996	1,856,450	8,363,191			

Significant Pesticide Use Leading to ... Health Concerns (poisonings, residues) Environmental Concerns (Pollutions, biodiversity) Trade Concerns (export restrictions)







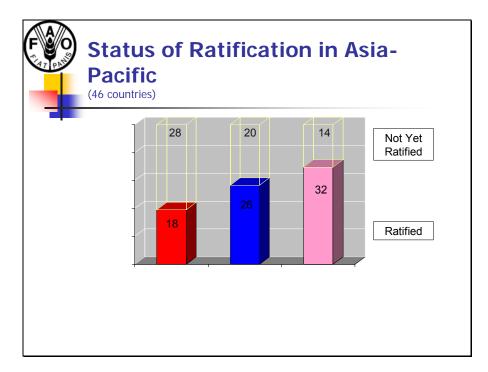
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Slide 7
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V. Membership Status in the Region/PIC

No	COUNTRIES	Signature	Ratification, Acceptance (A), Approval (AA), Accession (a)
1	. China (People's Republic of)	24-Aug-1999	22-Mar-2005
2	. D.P.R. of Korea		6-Feb-2004 a
3	. India		24-May-2005 a
4	Indonesia	11-Sep-1998	
5	. Iran	17-Feb-1999	26-Aug-2004
6	. Japan	31-Aug-1999	15-Jun-2004 A
7	. Malaysia		4-Sep-2002 a
8	. Maldives		17-Oct-2006 a
9	Mongolia	11-Sep-1998	8-Mar-2001
10	. Pakistan	9-Sep-1999	14-Jul-2005
11	. Philippines	11-Sep-1998	31-Jul-2006
12	Republic of Korea	7-Sep-1999	11-Aug-2003
13	. Singapore		24-May-2005 a
14	. Sri Lanka		19-Jan-2006 a
15	Thailand		19-Feb-2002 a

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Slide 9
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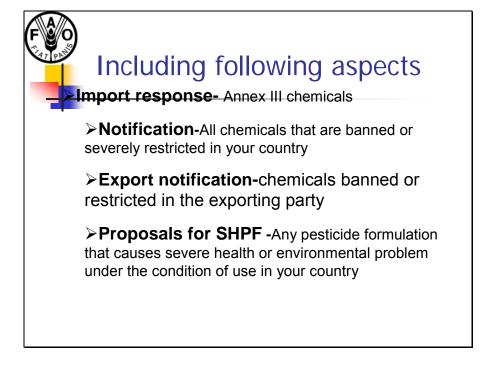


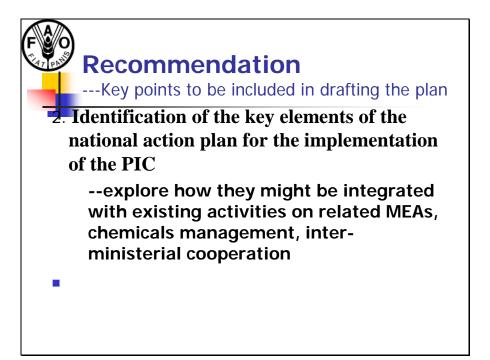
Ratifie	d Countr	162 2111	Le 2005
2005: 0	hina	22 Ma	r.2005
•	India	24 Ma	ay 2005
	Singapore	24 Ma	y 2005
I	Pakistan	14 Ju	ly 2005
2006: S	Fri Lanka	March 2	2006
,	Vietnam	April	2007
Phili	ppines	31 July	2006



- National action plans of implementation
- Inter- and intra-ministerial coordination
- Regional and sub-regional support
- Inter-agency collaboration
- Capacity building, harmonization, regional and national activities







Recommendation

---Key points to be included in drafting the plan

3. VIP-Clarify

- What needs to be done at various levels
- Order of actions
- Who is responsible for each action
- Tentative timelines
- Possible linkage and integration with other relevant programs

Recommendation

---Key points to be included in drafting the plan

4. Strengthening

ensure harmonization of relevant national rules and regulations in line with conventions

 enhance capacity building in chemical management

Session 3, Presentation # 7, by Mr. Gamini Manuweera

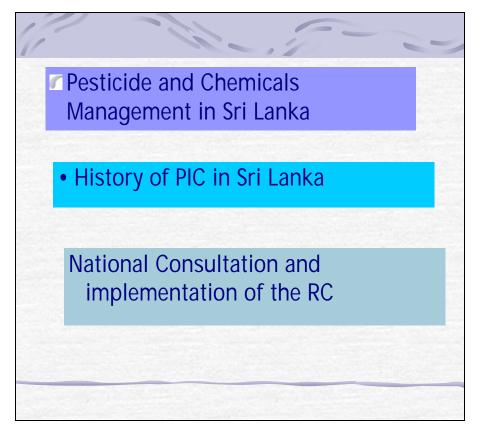
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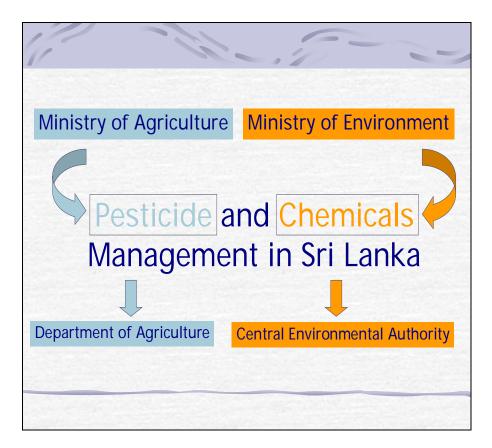
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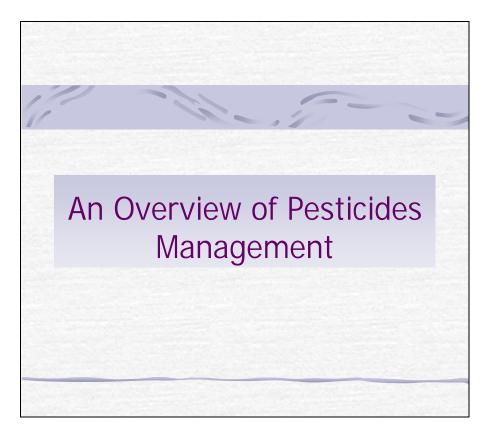


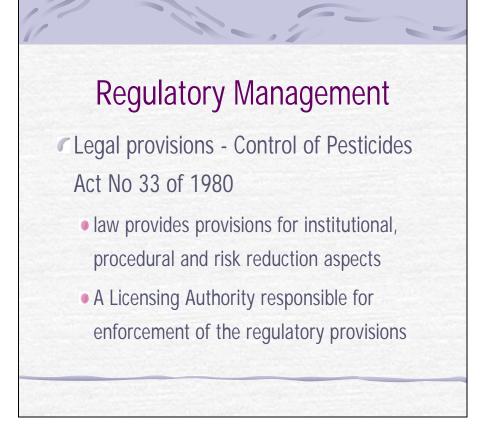


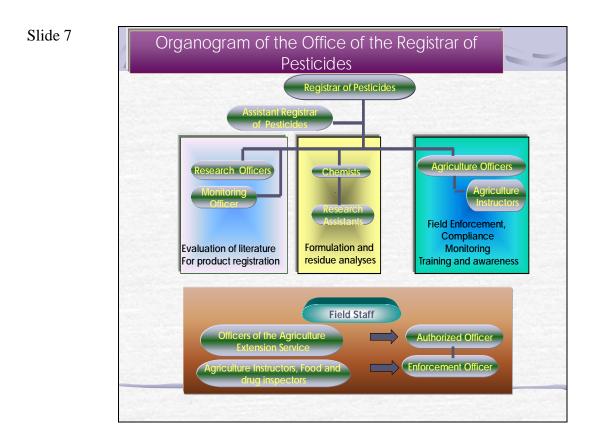




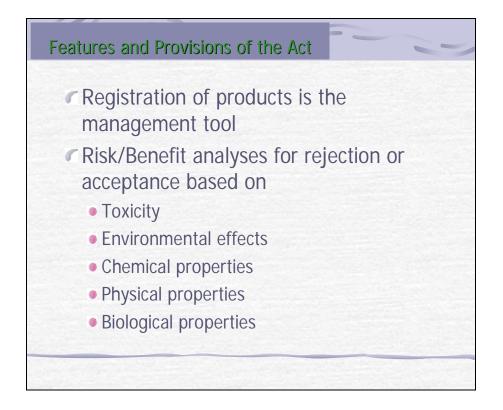




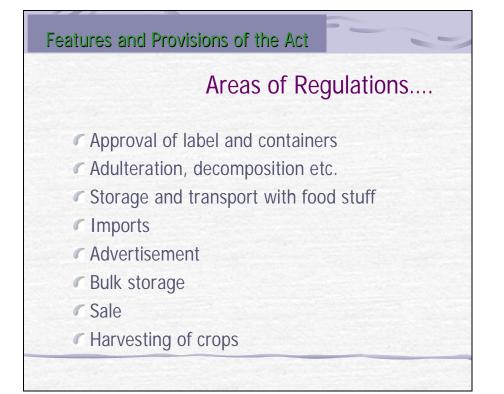






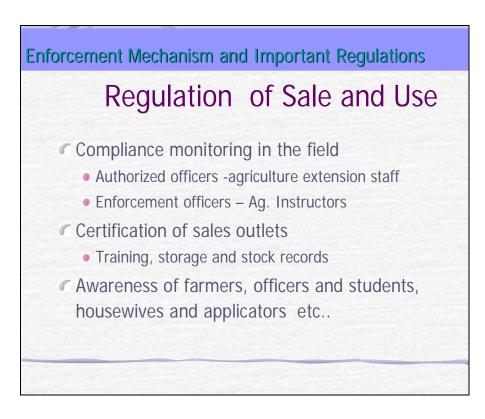




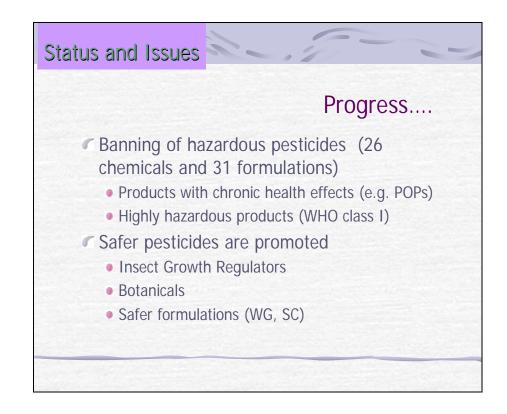


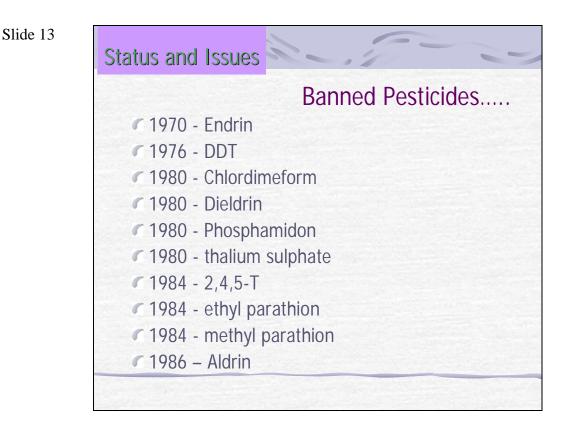




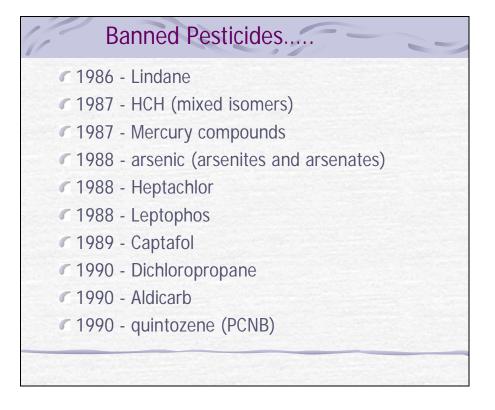


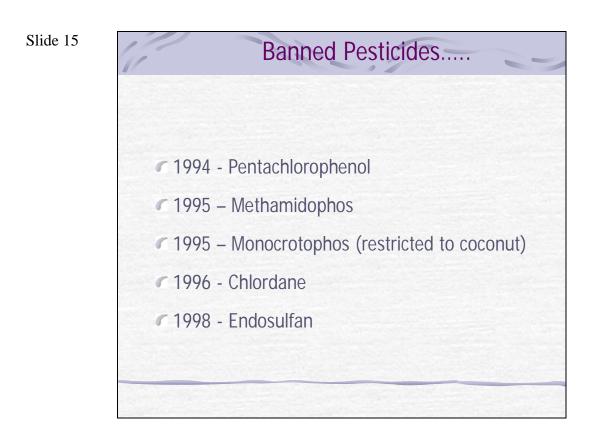




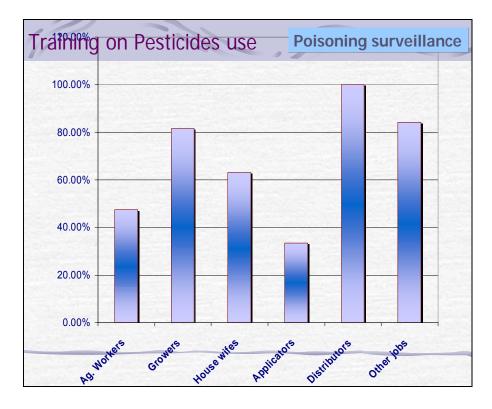




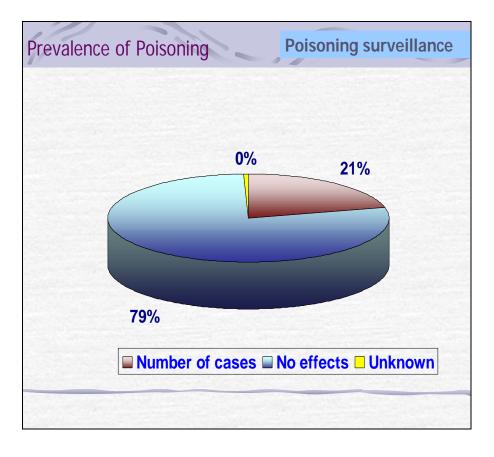


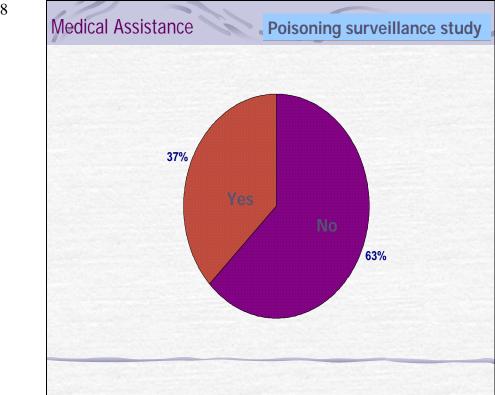






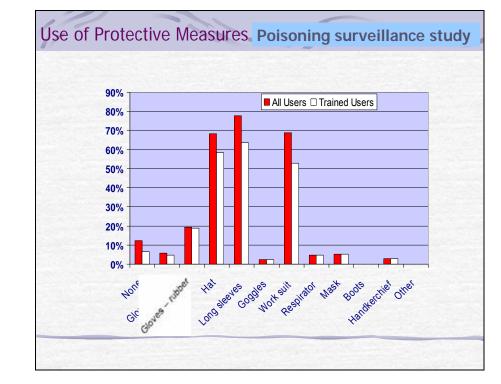


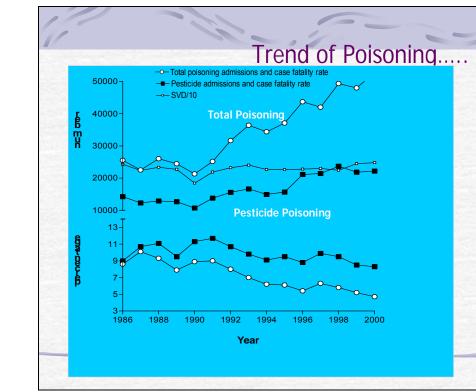




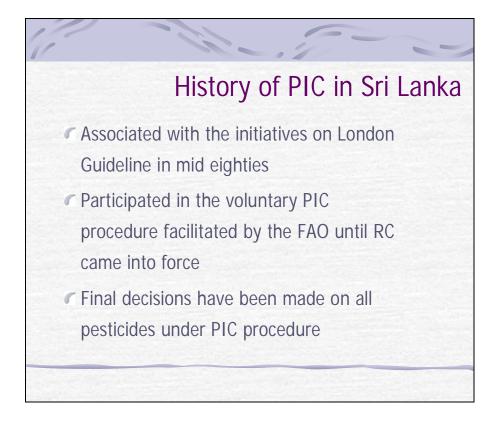
















Stakeholders		
Sector/Discipline	Area of Responsibility	
Ministry of Foreign Affairs	International relations and coordinations	
Ministry of Finance and Planning	National policies and project implementation	
Ministry of Health	Health related issues	
Ministry of Environment and Natural Resources	National focal point for Stockholm Convention/ Basel Convention	
Ministry of Industries	Import/Export handling of Industrial chemicals	

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Slide 25
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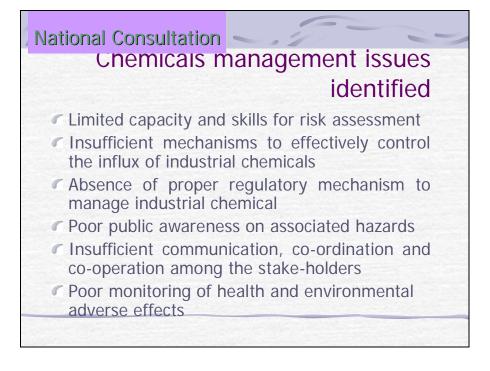
National Consultation

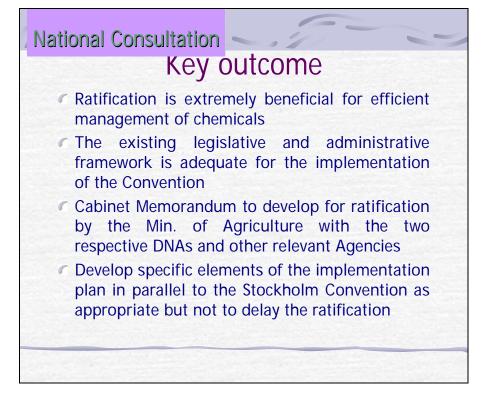
Vinistry of Agriculture	Representing Agriculture
Department of Customs	Regulation of imports
Department of Import Control	Import/Export control
Central Environmental Authority	UNITAR project on Integrated chemicals management
Central Environmental Authority	DNA/PIC - Industrial Chemicals
Ports Authority	Facilitation of Import of Chemicals

6.

CropLife-Sri Lanka (Pesticide Industry)	Chemical Importers
Industrial Chemicals	Chemical Importers
Department of Agriculture	regulatory affairs related to plant protection
Office of the Registrar of Pesticides	DNA/PIC-Pesticides
NGO	Representing the public interest groups
Board of Investment	Responsible for Free-Trade investments









Slide 30

National Consultation

Current implementation status

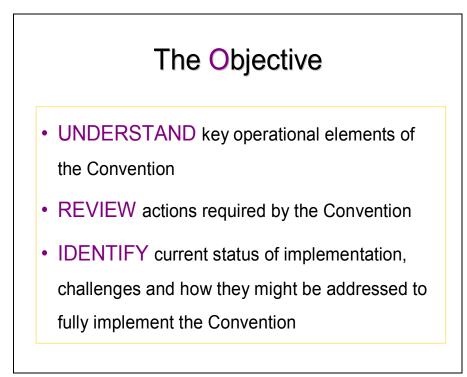
- Creation of National Sub-division for import control
- Setting up of National Coordinating Committee
- Pesticide and Industrial chemical DNAs, do the preparation and submission of import response, notification etc..
- Advisory Committees for national and decisions re. pesticides are taken by the Pesticides

Session 4, Presentation # 1, by Mr. Bill Murray



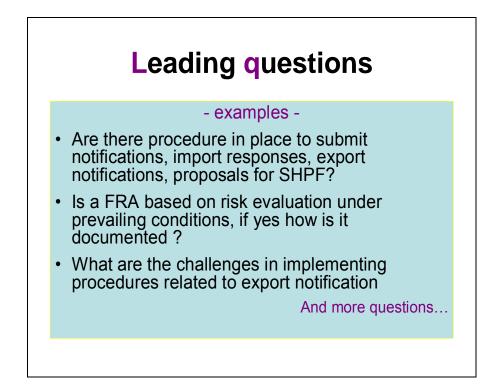






The 4 Tables

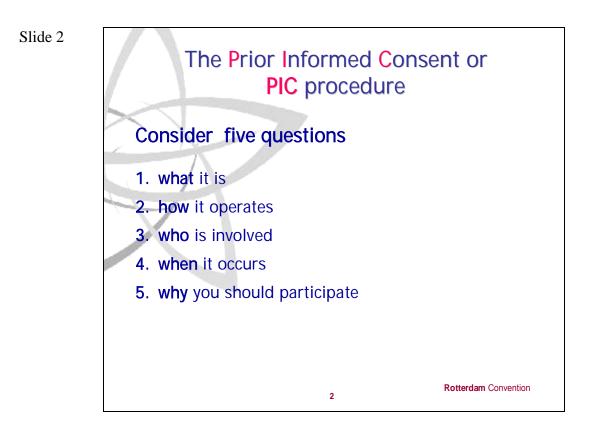
4 Key	Leading questions:			
operational	•What might be the challenges in submitting import			
elements	response?			
•Import	•How do you communicate import decisions published in			
Decision	the PIC Circular to all concerned in the country?			
•FRAs	•Are those concerned aware of the implication associated			
•SHPF	with import decisions?			
•Export Notification	Current legal infrastructure/adm in procedure	What has been done	What needs to be done	Who is responsible and to do



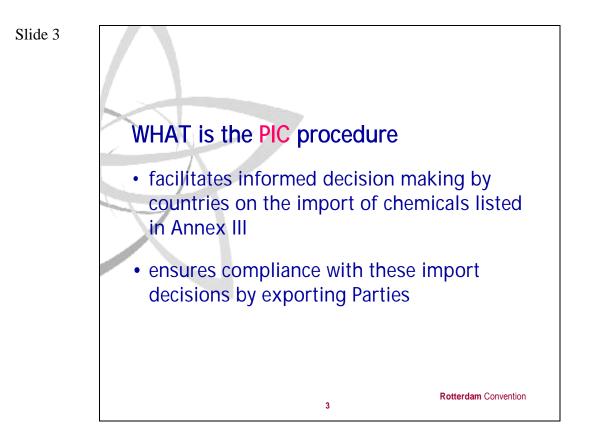
Road Map

- Set time to focus on leading questions for each operational element
- Set time to discuss the outcomes and wrap up for the report
- Type the results directly in the table
- Rapporteur/Chair will report to Plenary on key outcomes of the discussion

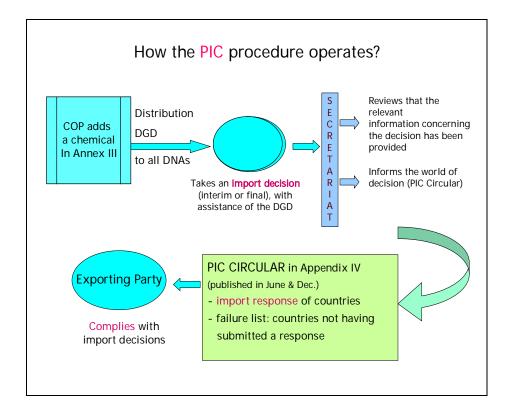
Slide 1 CLORENTIAL CLORENTIAL CODERATION OF THE ROTTER CONVENTION Part 1 The Prior Informed Consent (PIC) Procedure and Import Response

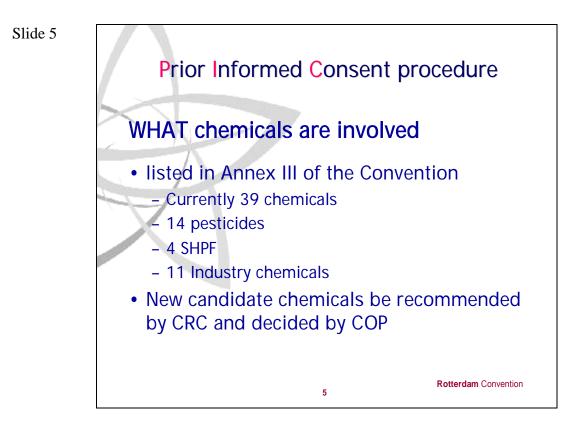


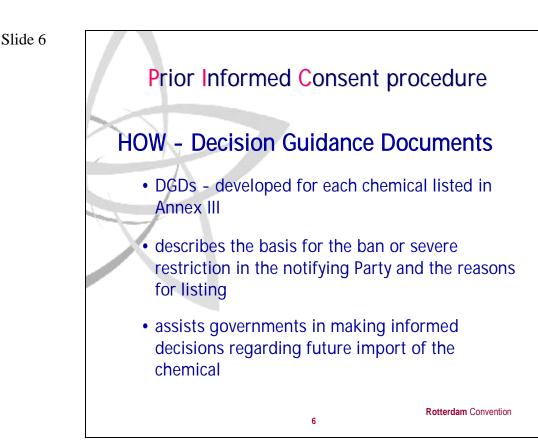
Session 4, Presentation # 2, by Mr. Bill Murray

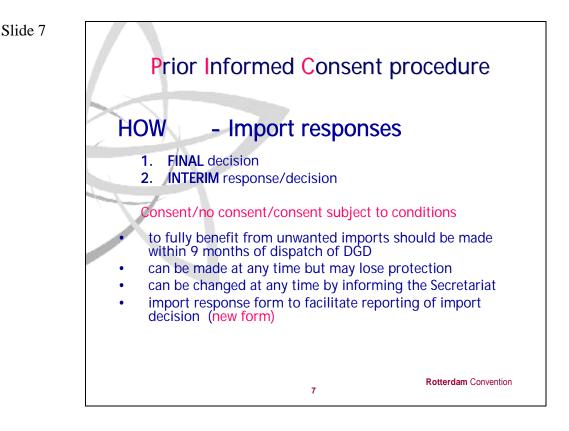


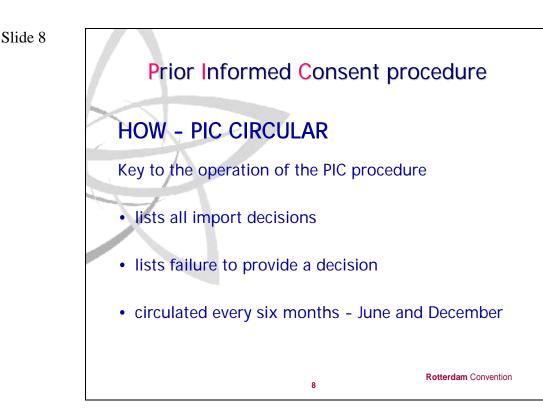


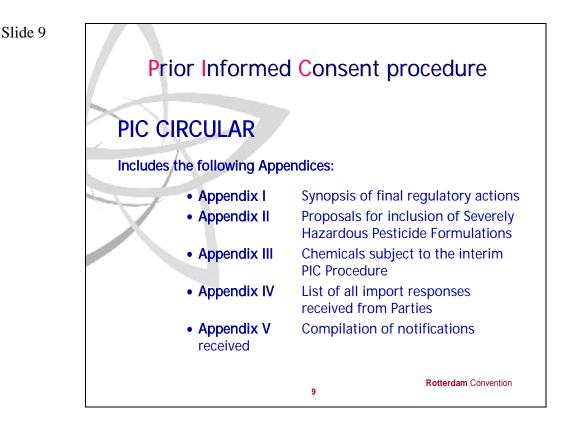






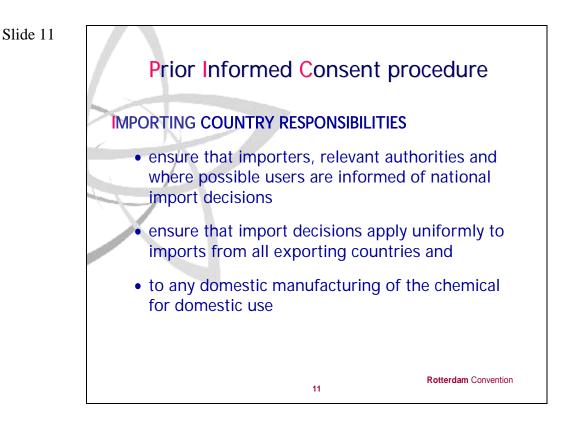






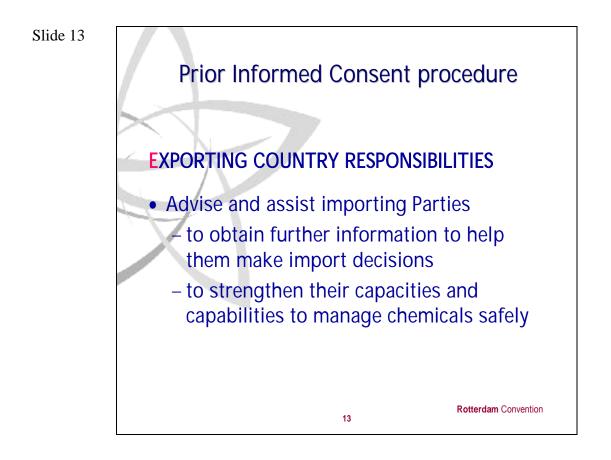
















WHEN

- 1. COP decides to make a chemical subject to the PIC Procedure
 - 2. Secretariat circulates a DGD to all Parties
- 3. Parties submit import response for each chemical
- 4. Secretariat circulates all import responses to all Parties through the PIC Circular

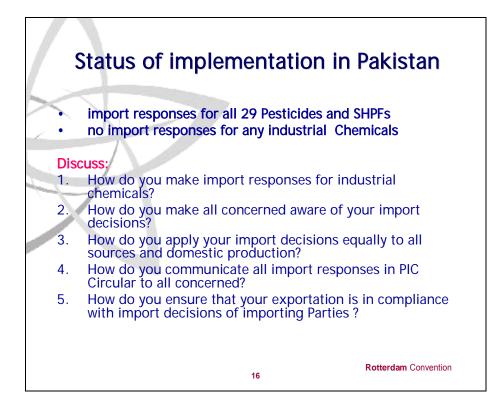
14

Rotterdam Convention

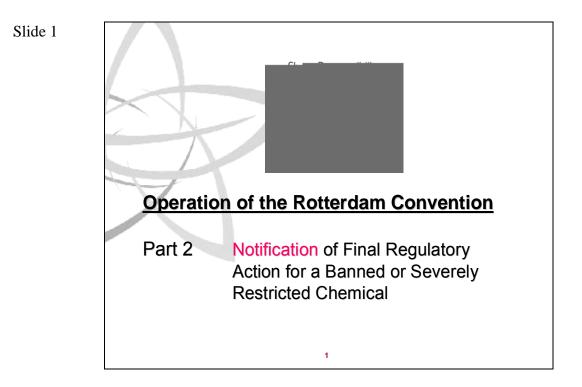
5. Parties comply with import / export responsibilities

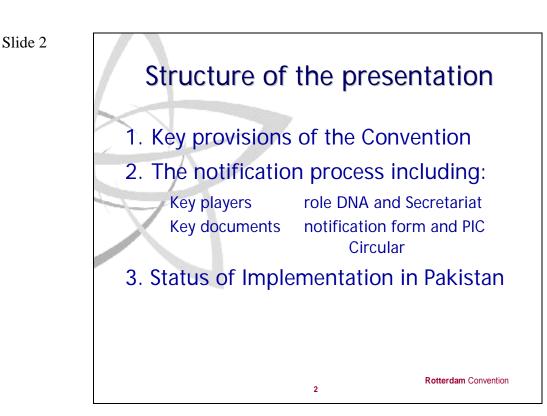






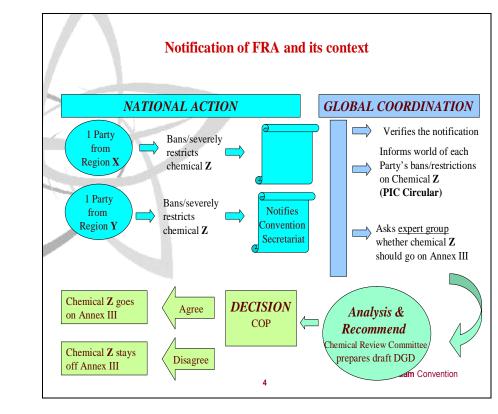
Session 4, Presentation # 3, by Mr. Bill Murray

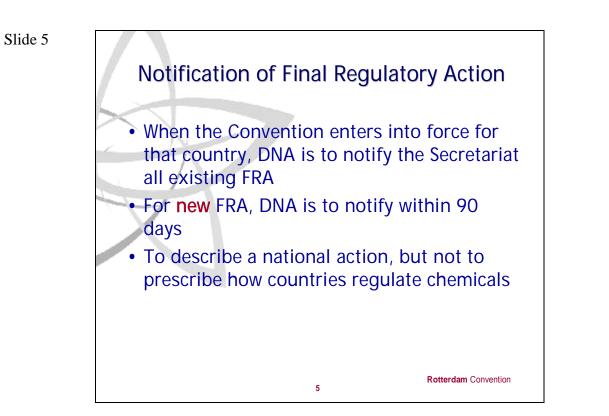




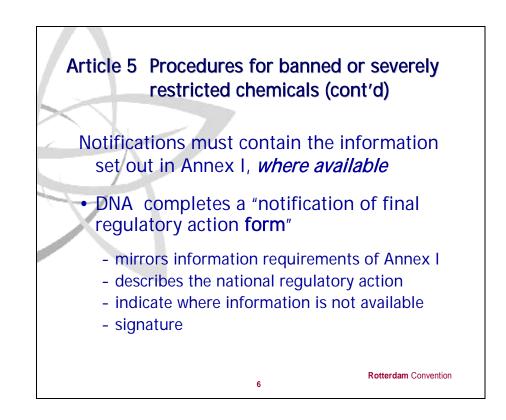


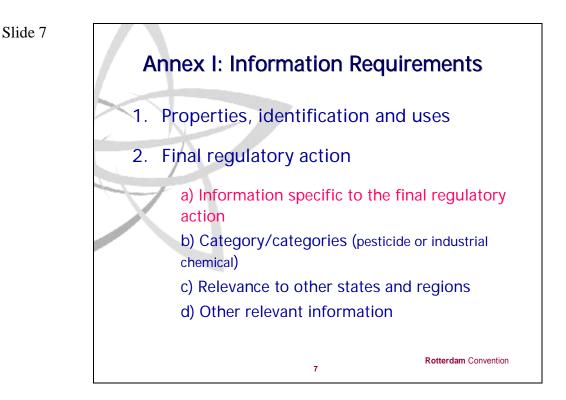


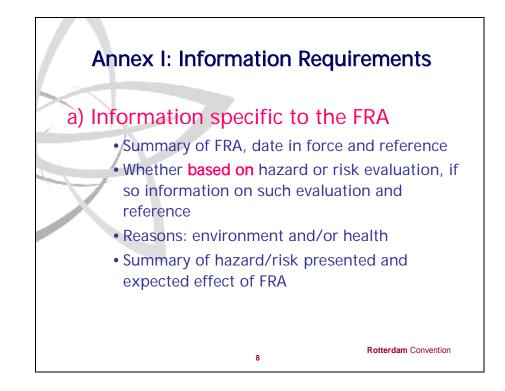




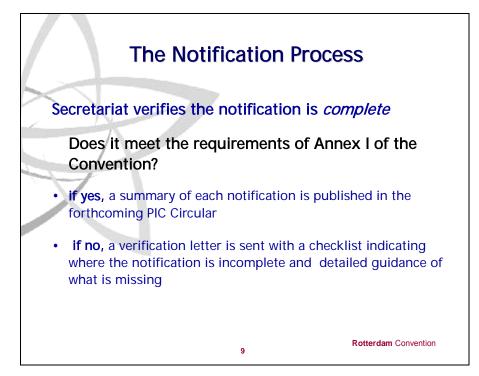


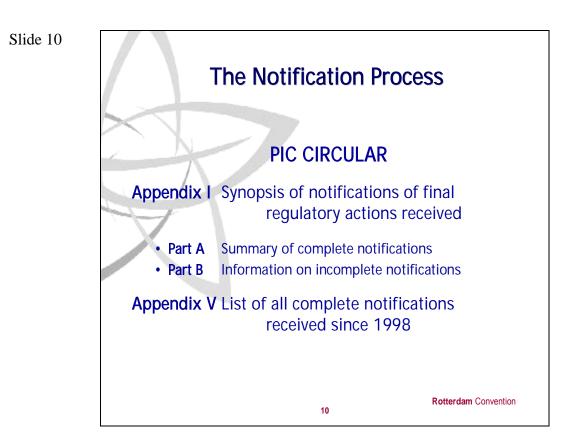


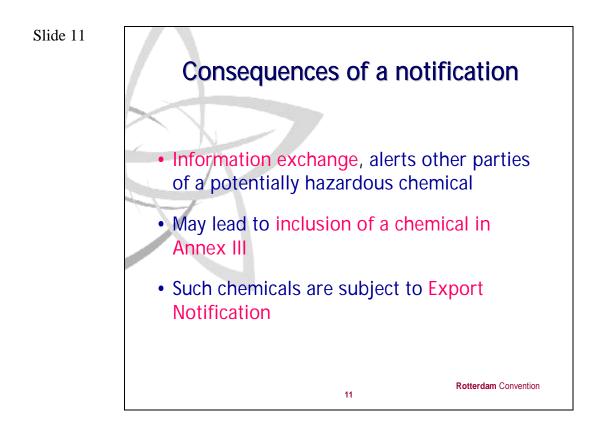


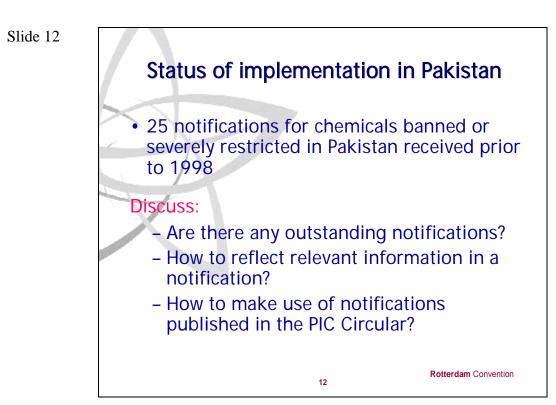




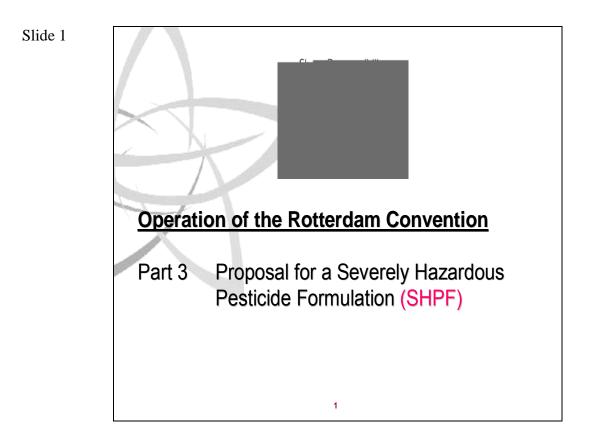


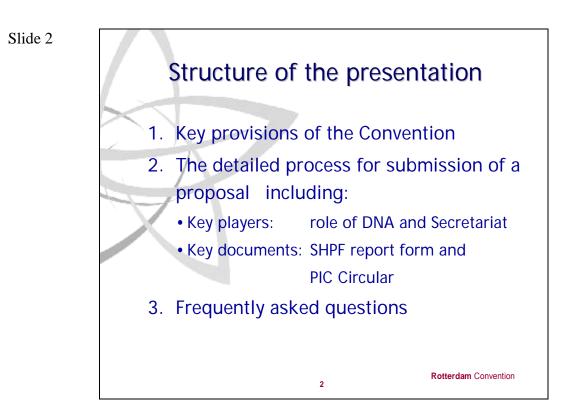


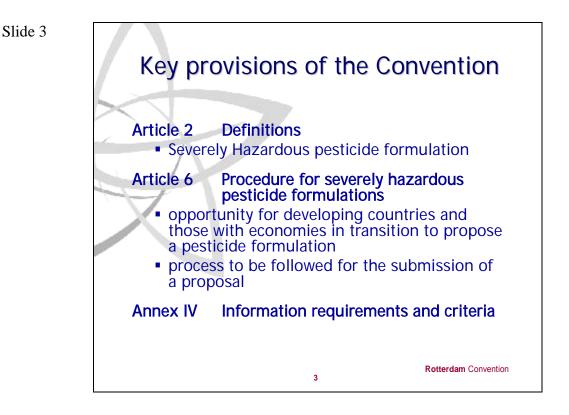


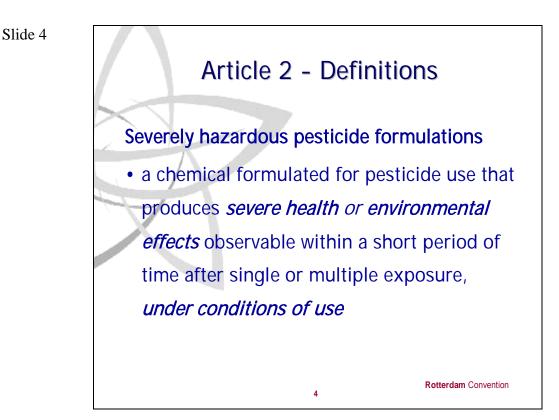


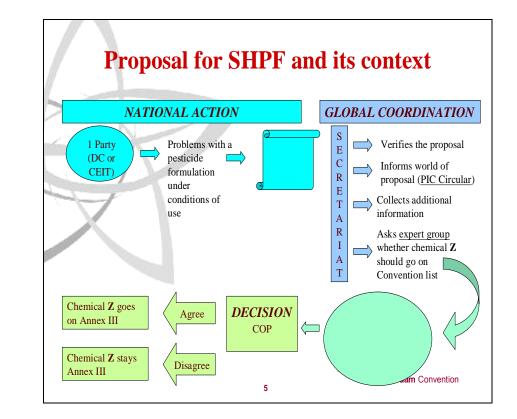
Session 4, Presentation # 4, by Mr. Bill Murray



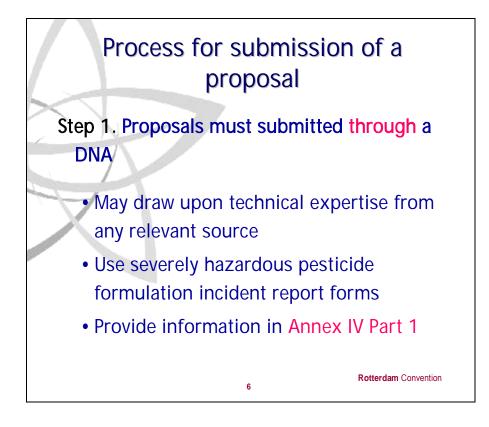


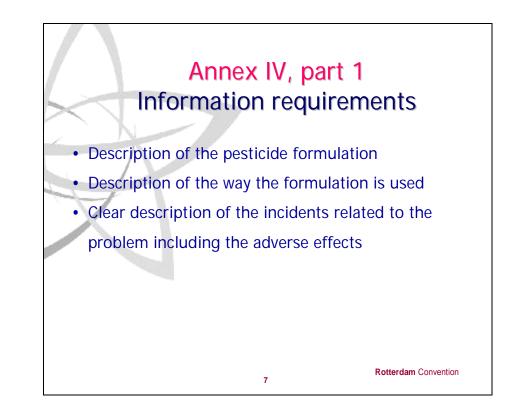




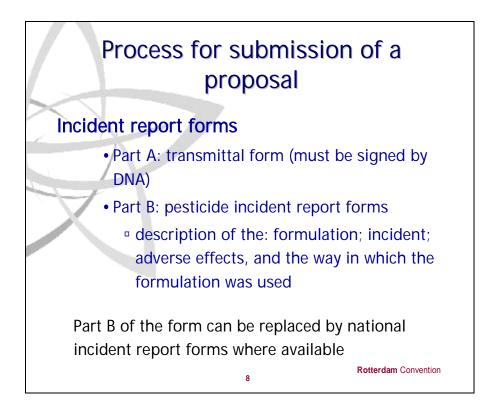


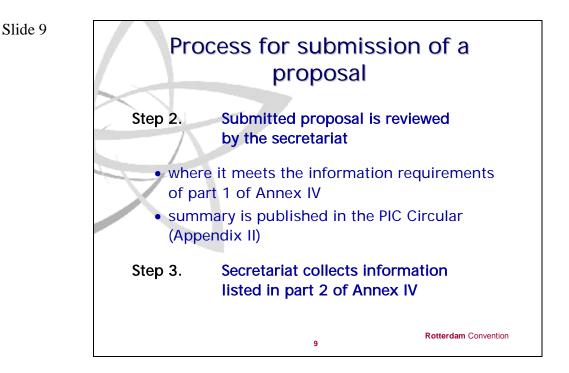


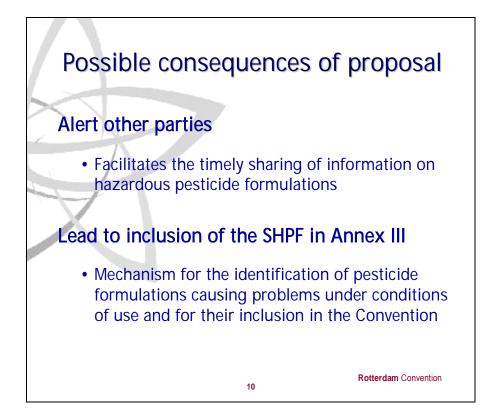




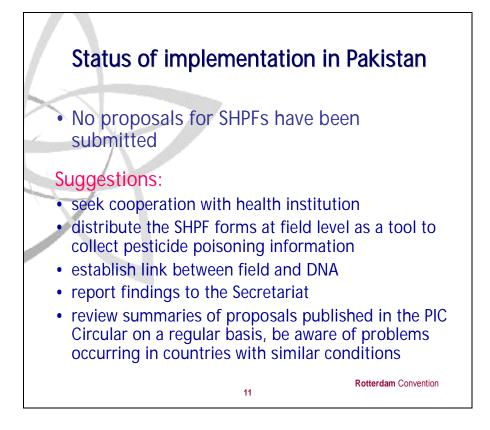


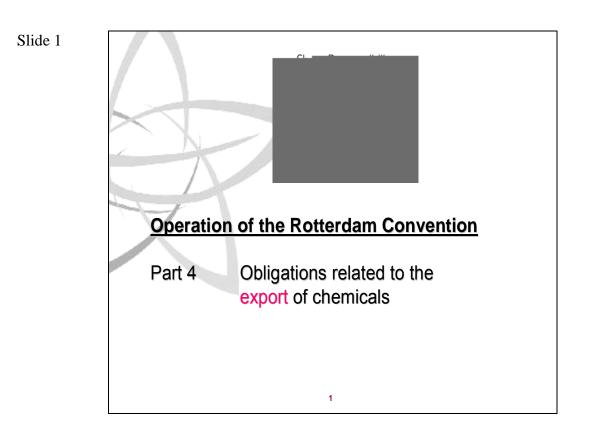






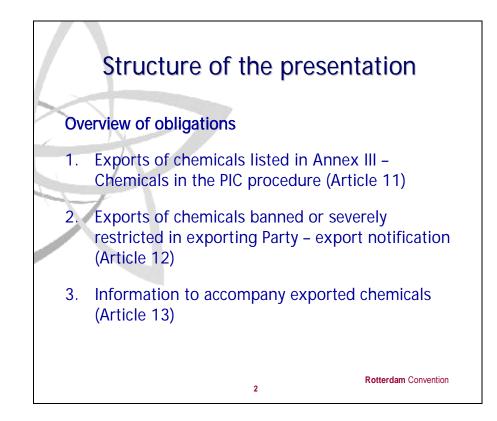


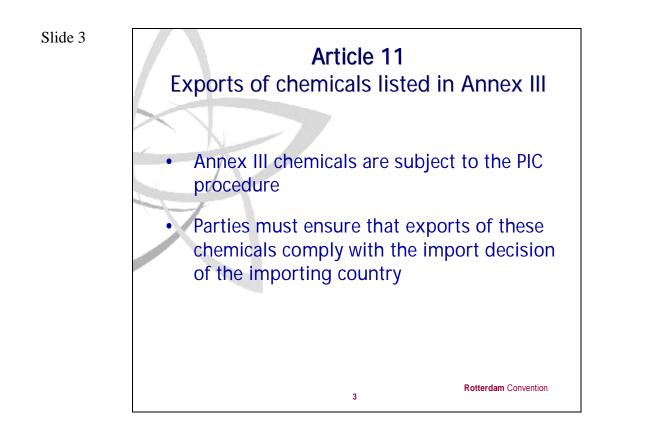




Session 4, Presentation # 5, by Mr. Bill Murray

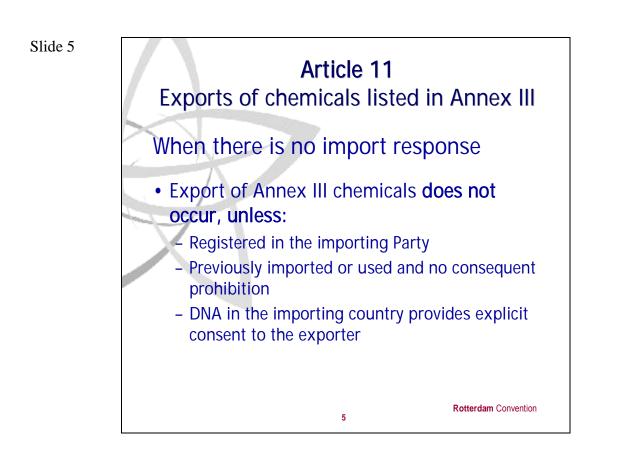






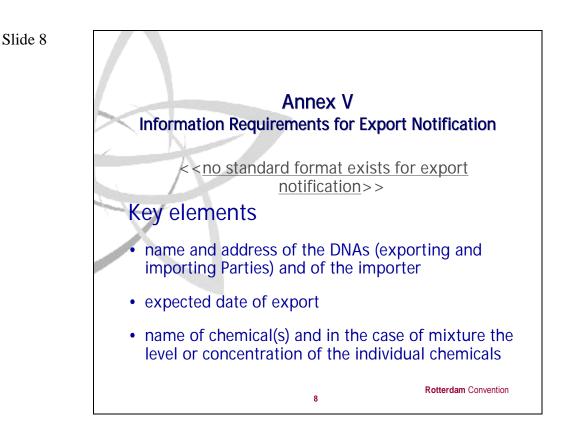


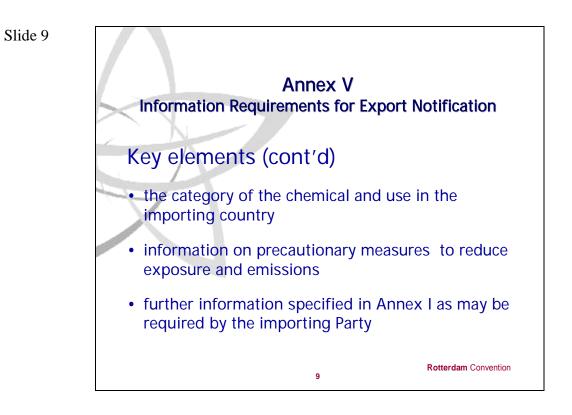


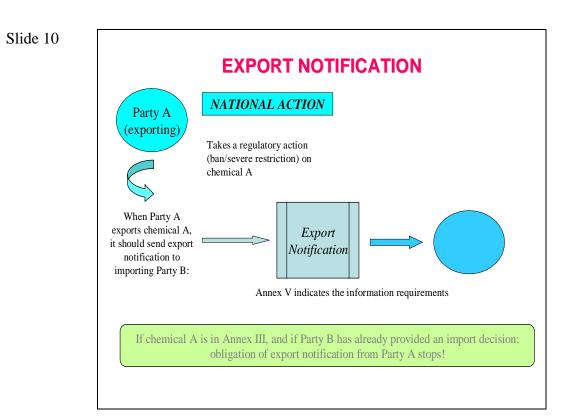


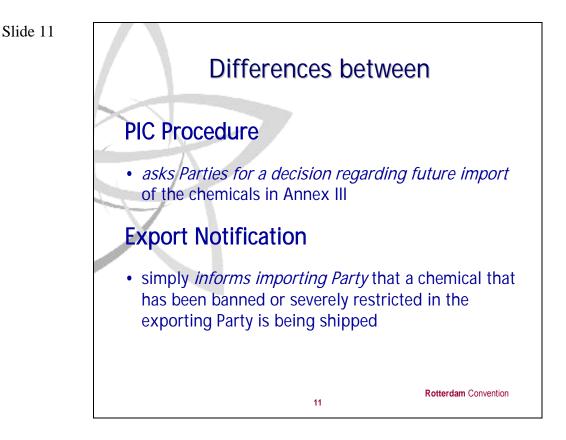


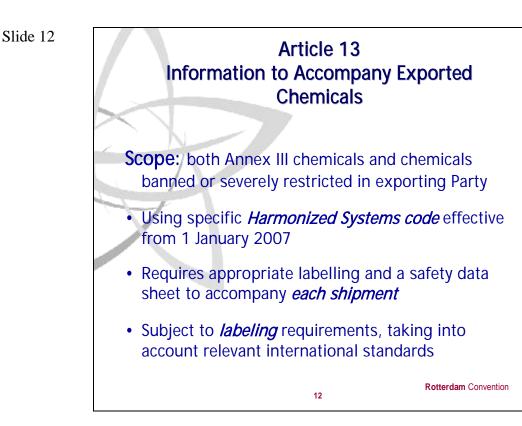




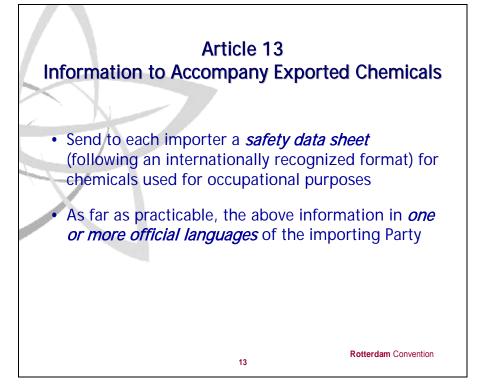




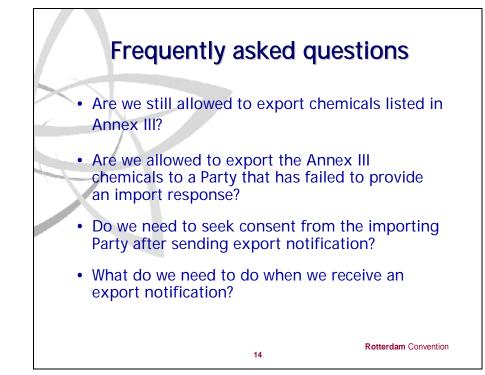




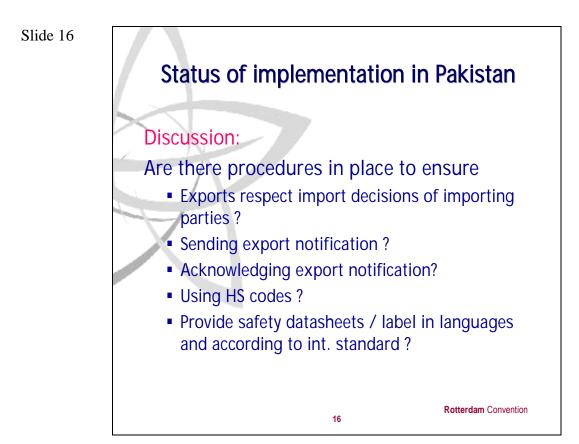










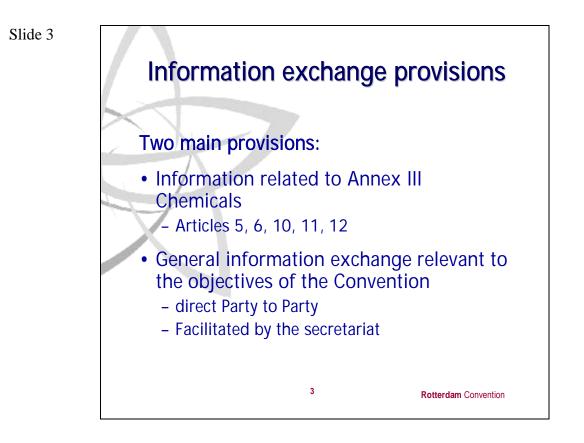




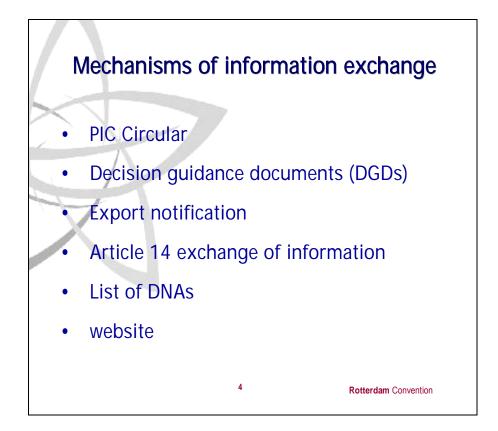


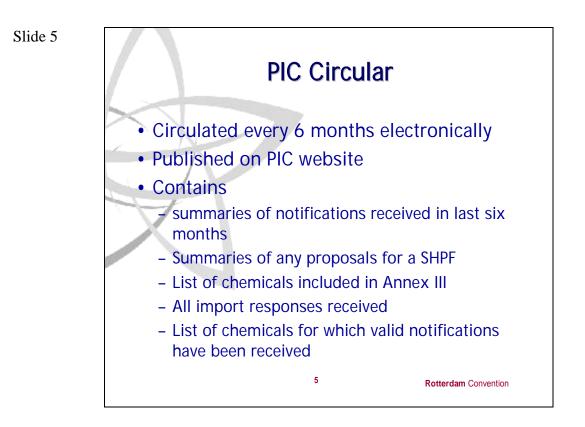
Slide 2 Structure of the presentation Information exchange provisions under the Convention Types of information which can be exchanged and mechanisms of exchange Potential benefits of information exchange

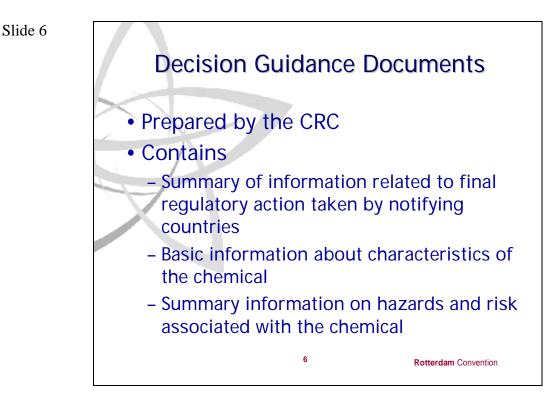
Session 5, Presentation # 1, by Mr. Bill Murray







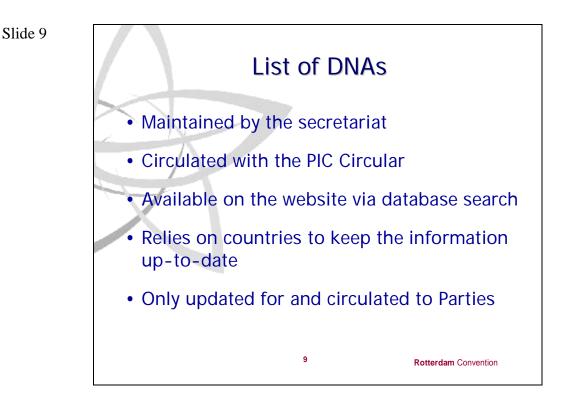


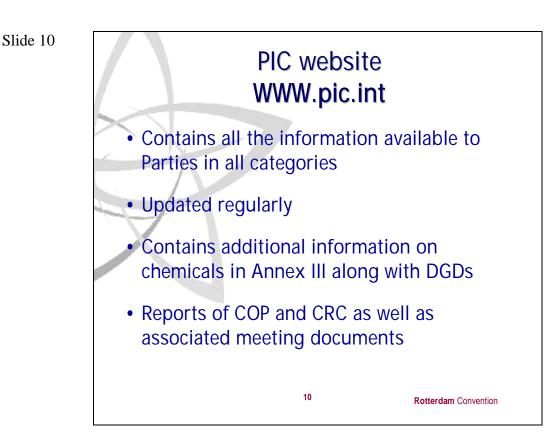


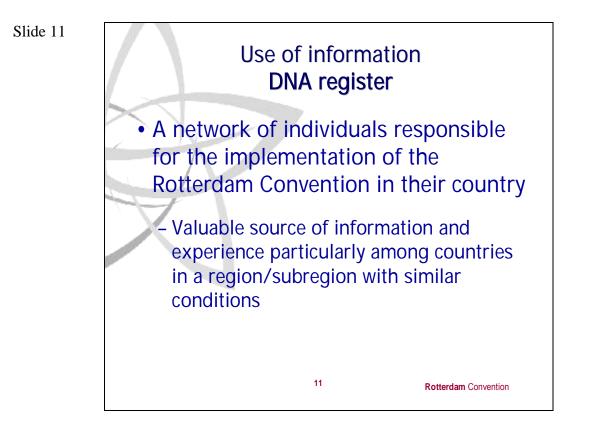


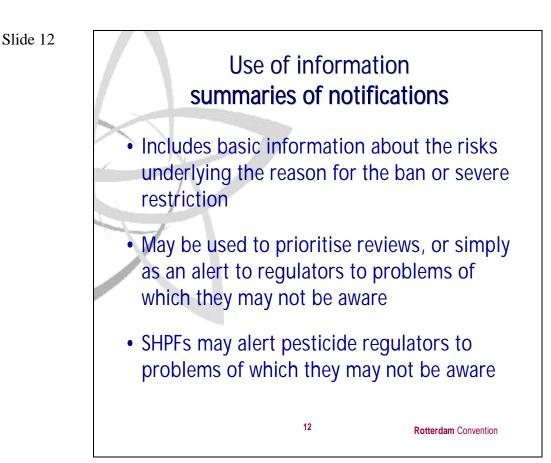


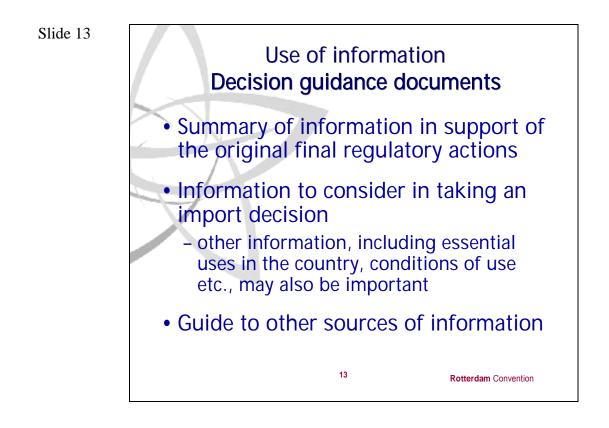








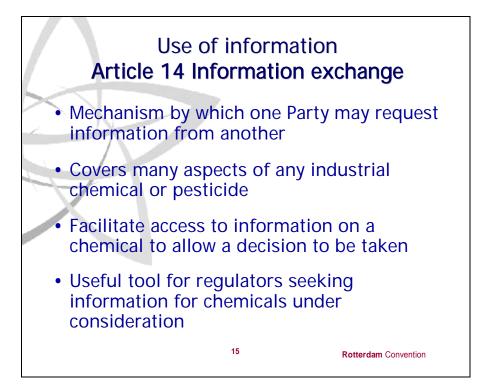


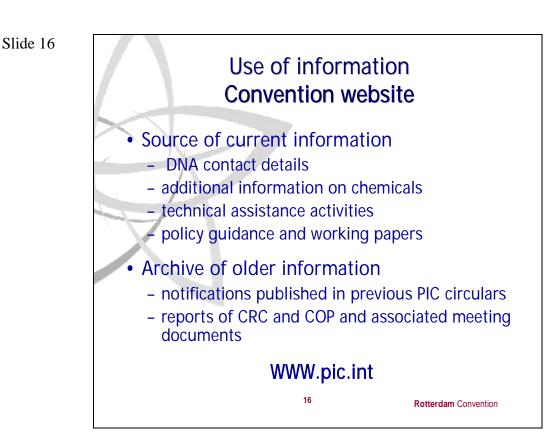


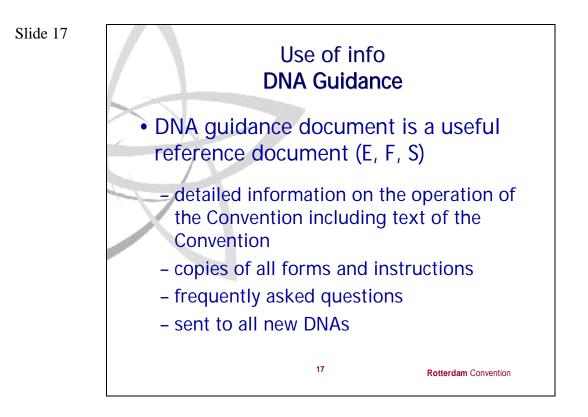




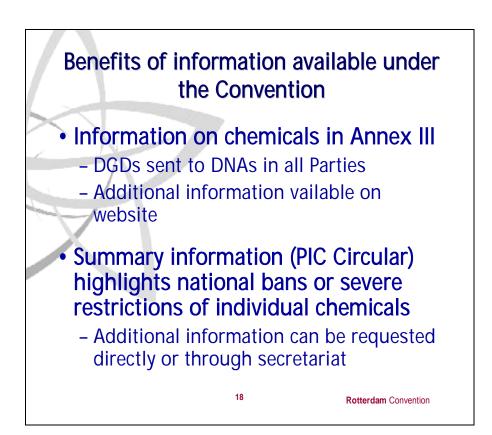


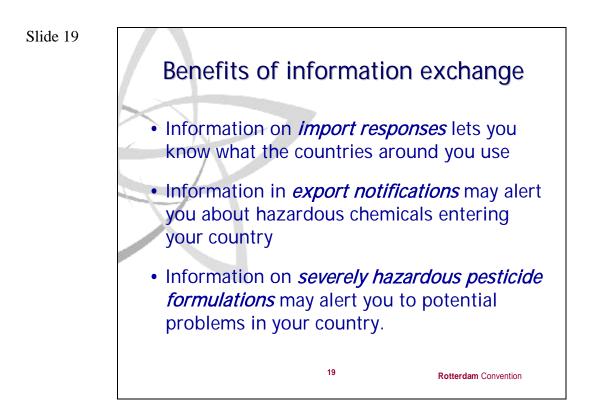


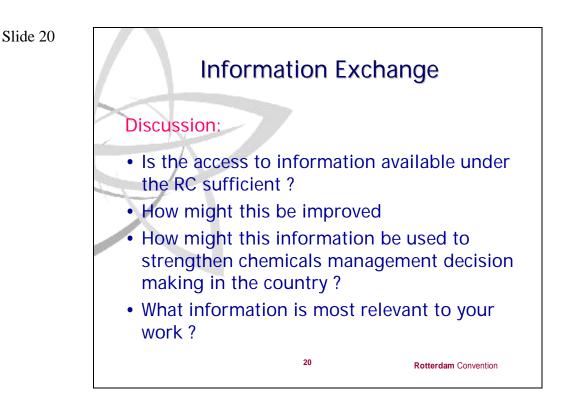








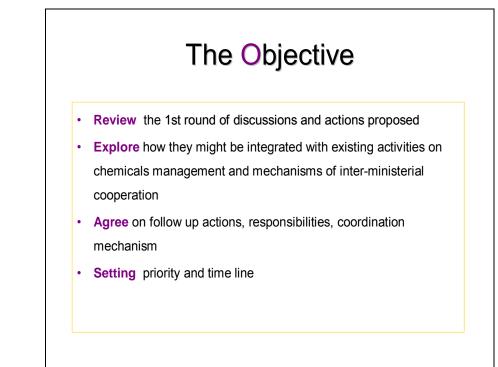




Session 6, Presentation # 1, by Mr. Bill Murray

Slide 1







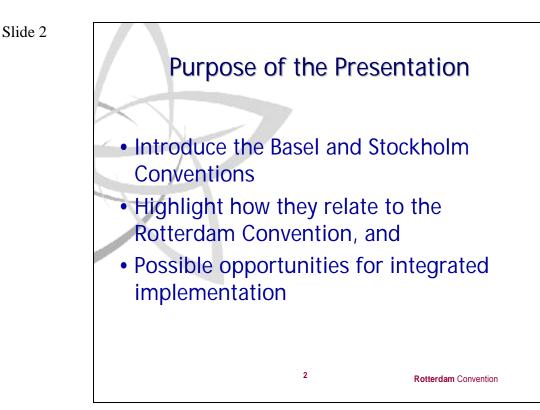
The 4 Tables

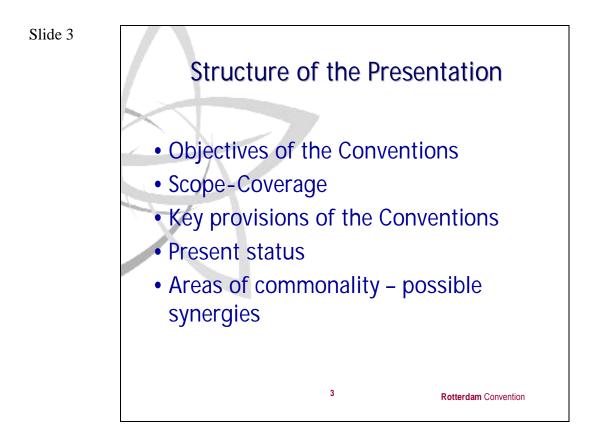
The scope and communication channel: •FRAs •SHPF •Import	Leading questions: •Regulations of your Government? •Procedures in place? •Challenges? •Roles?				
•Export Notification	Current legal infrastructure	What has been done	What needs to be done	Who is responsible and to do?	



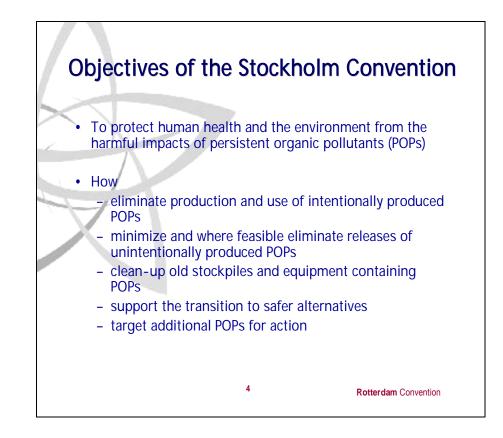
4 Road map Set timeline for the review process Set timeline for discussion and wrap up for the report in Plenary Type the results directly in the table BOG chairs will prepare a consolidated table to report back to plenary for discussion and adoption

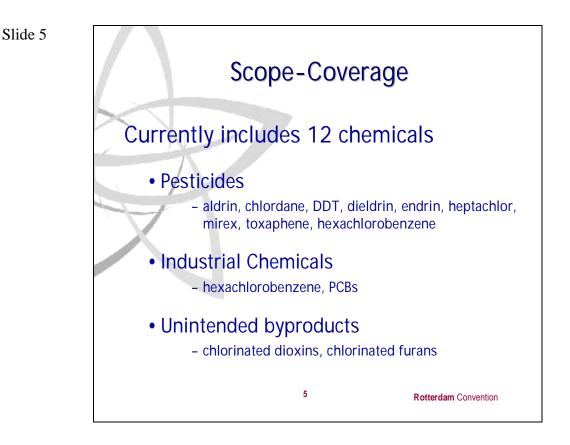
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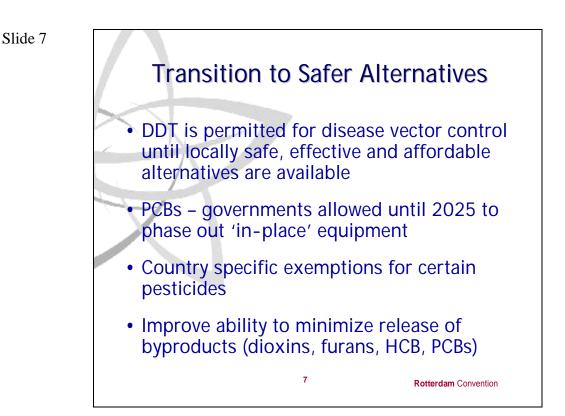


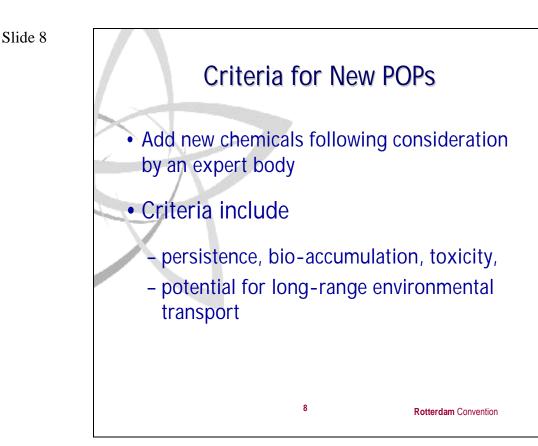


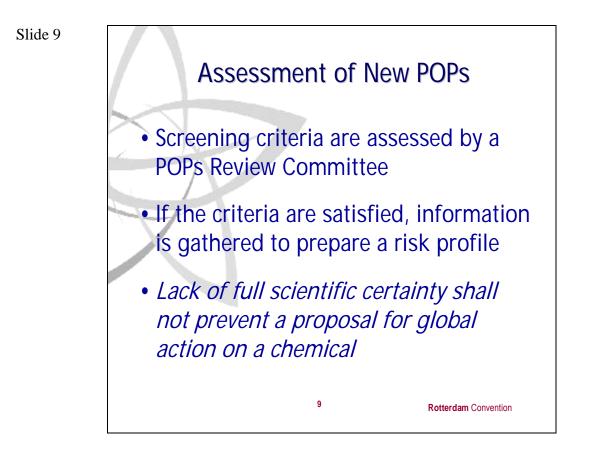


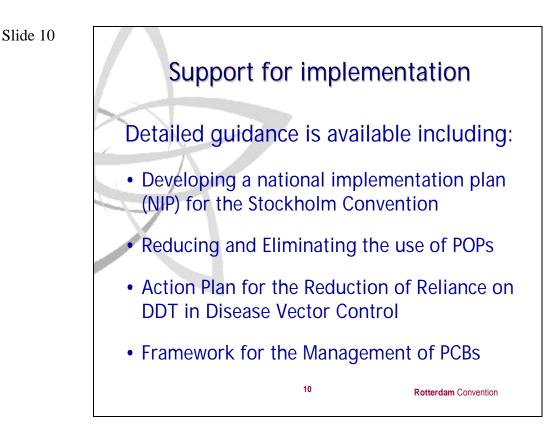


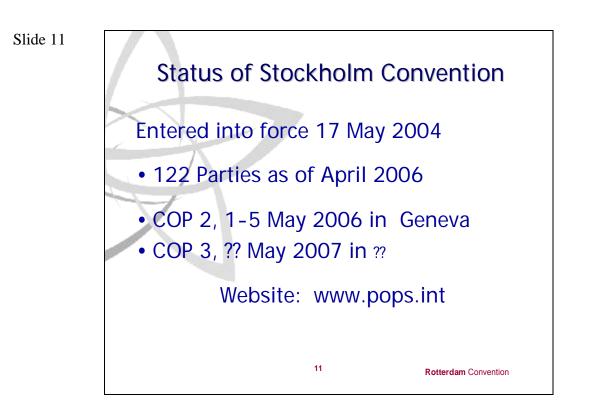




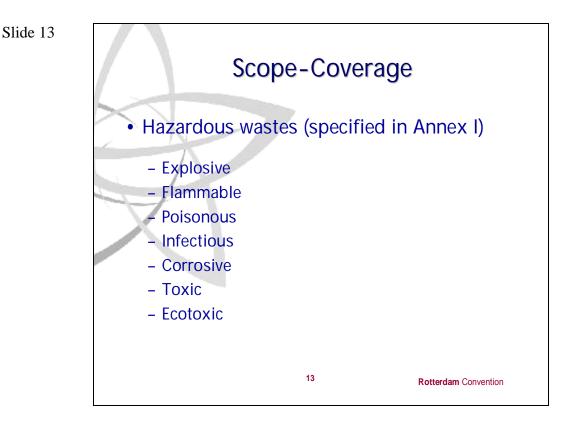


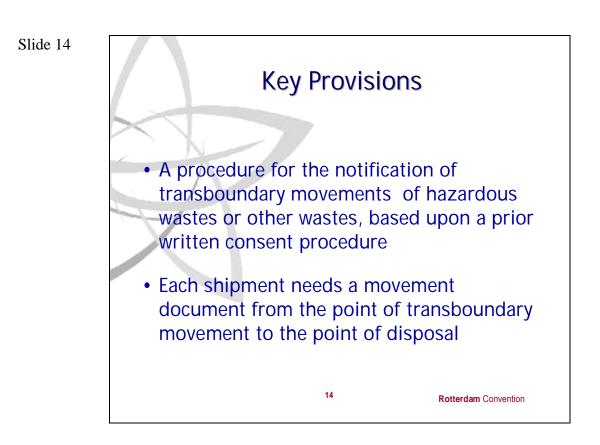


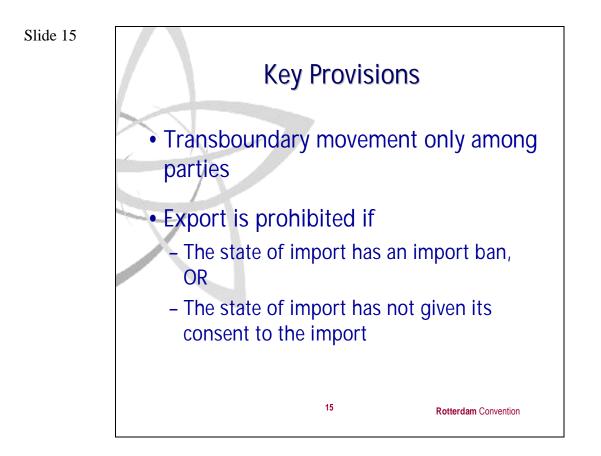




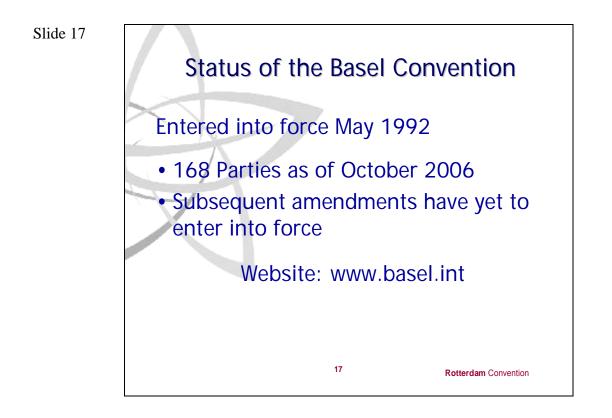




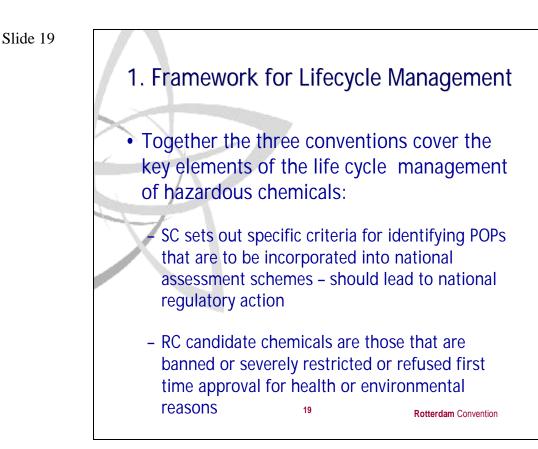


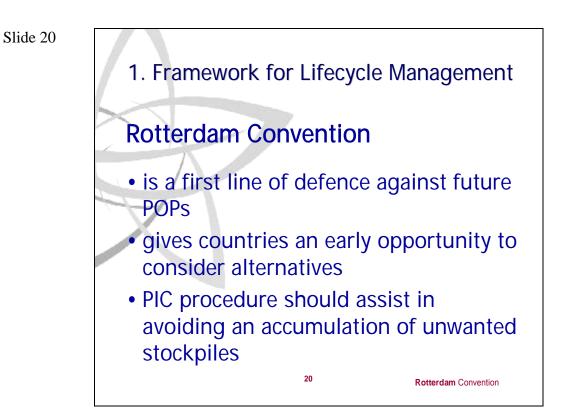




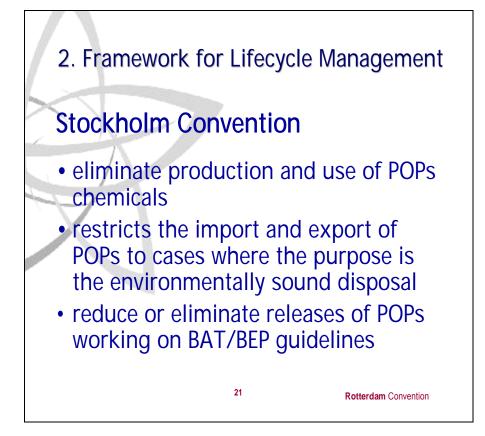




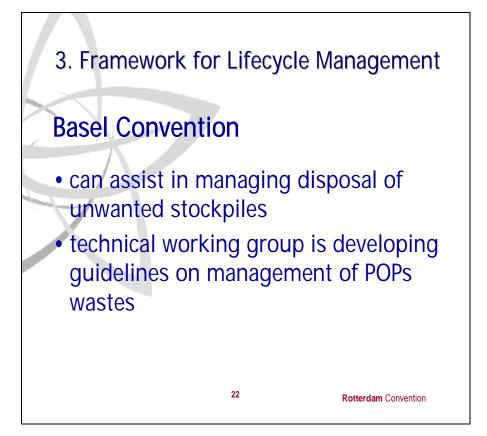


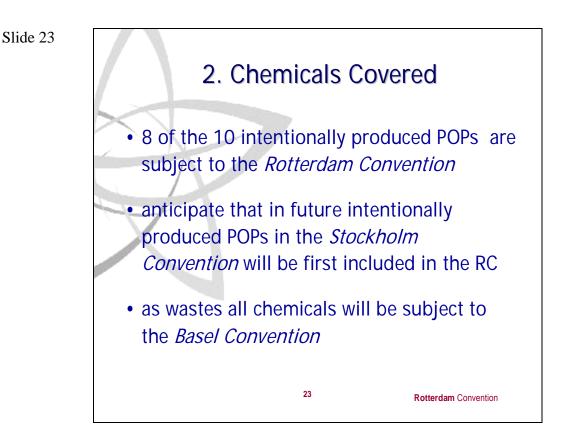


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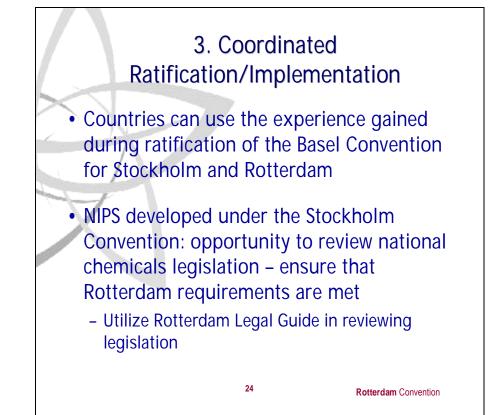


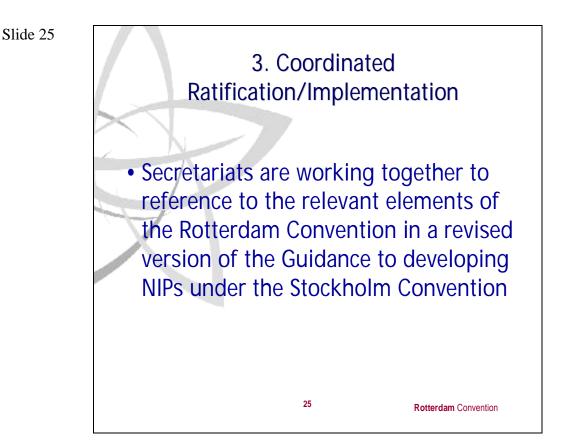






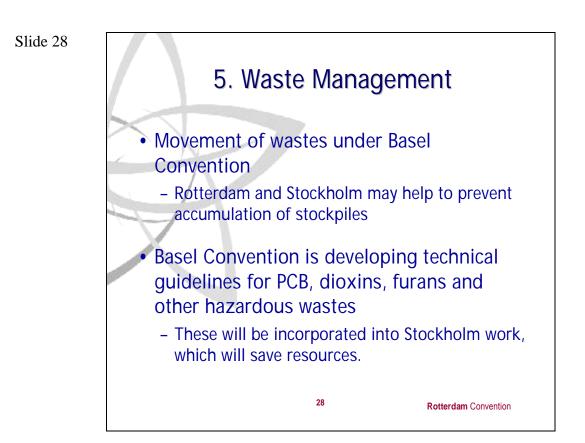


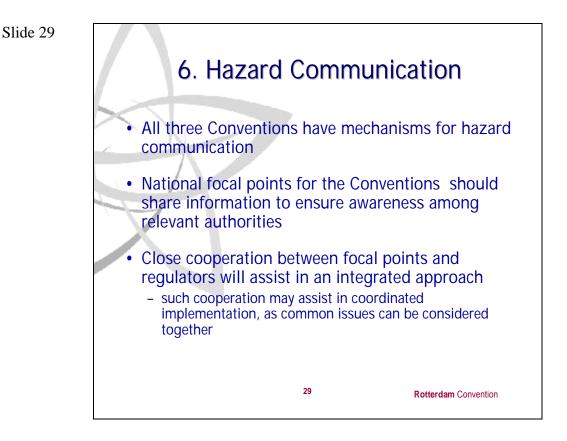


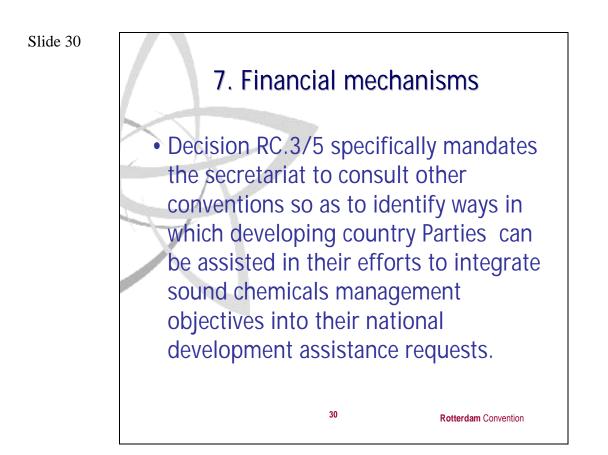


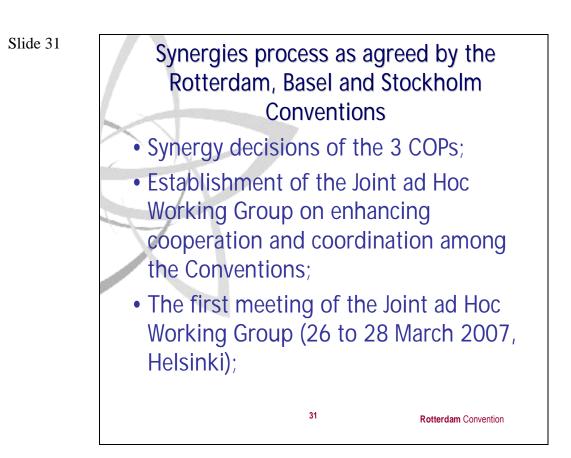






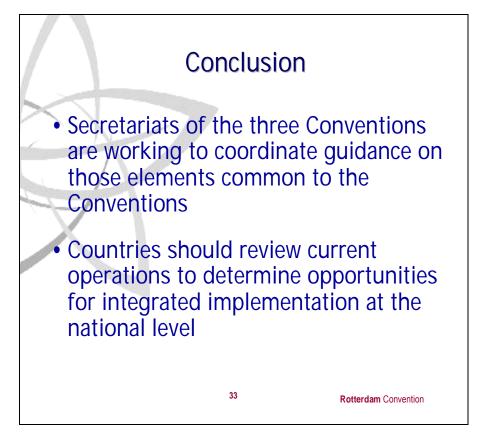






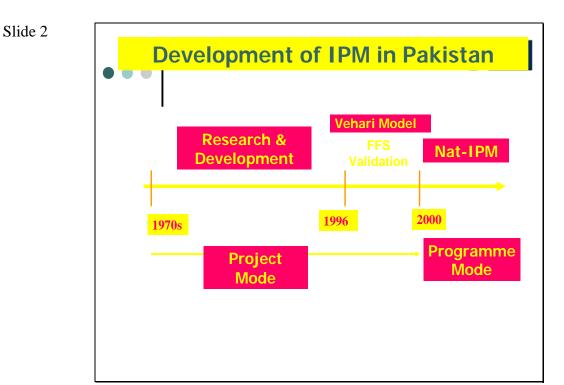








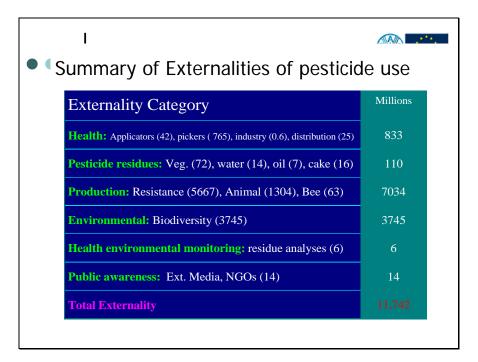
Session 6, Presentation # 3, by Dr. Iftikhar Ahmad



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Slide 3
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Projects under National IPM Programme

- FAO-UNDP Pesticide Policy Study (2000-2001)
- FAO-EU Cotton IPM in Asia (2000-2004)
- FAO-ADB Cotton IPM Project (2001-2004)
- FAO-AGFUND Project on Pesticide Risk Reduction in Women (2002-2003)
- National IPM Project (2004-2009)

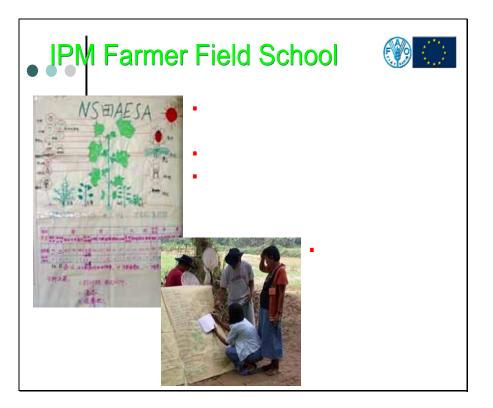


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Slide 5
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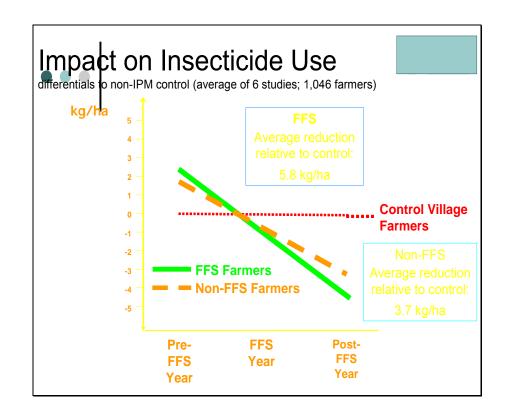
Externality, pesticide use cost and Benefits					
	True Cost of Pesticide use	Rs. Millions			
Why	Total costs per year (Rs. Million)	18611			
	Pesticide costs (chemical + spray)	7044			
Р М	External costs	11567			
	Benefit	8069			
	Benefit-cost ratio without external cost	1.14			
	Benefit-cost ratio with external cost	0.43			

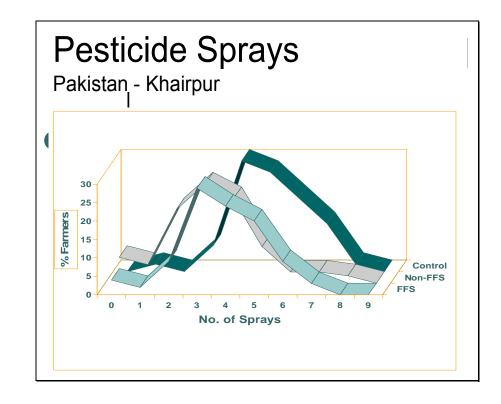


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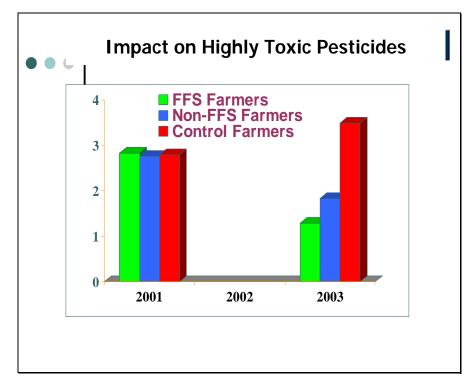


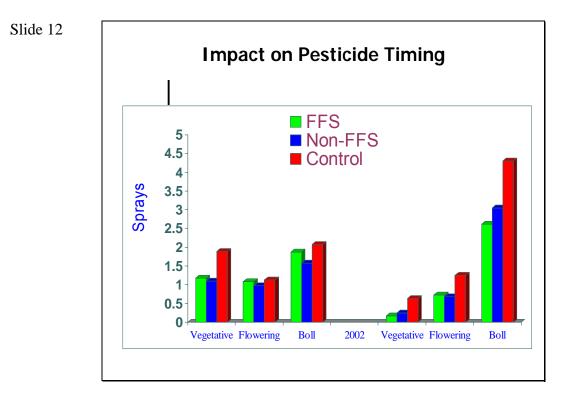
	Total
Training of Facilitators (ToF)	56
Facilitators trained	1156
Farmer Field Schools (FFS)	3225
Women Facilitators Trained (in pesticide risk reduction)	37
Women Open Schools (WOS)	86
Farmers trained	56892
Women trained in WOS	1619



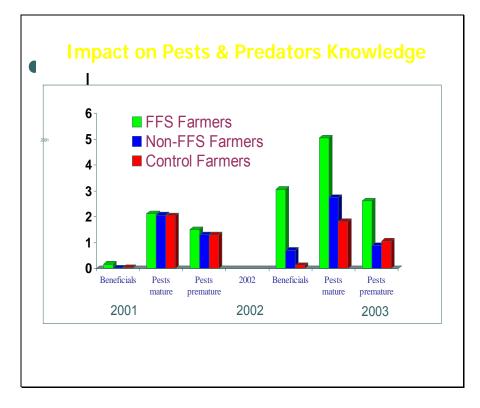




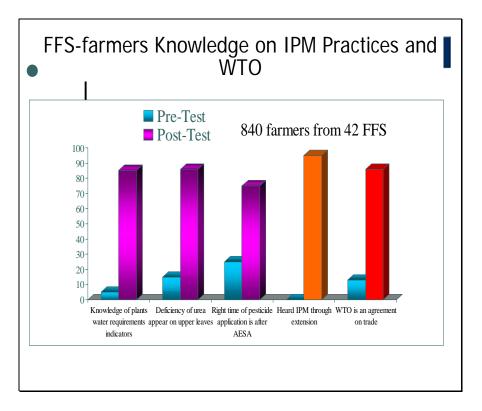




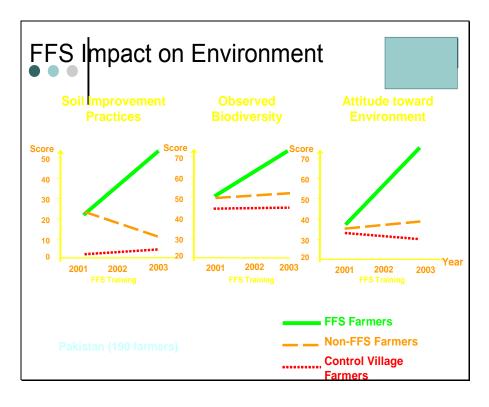


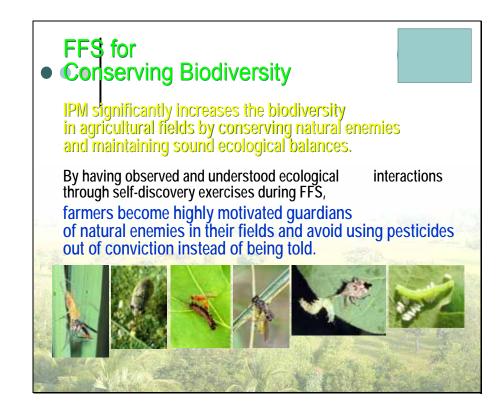




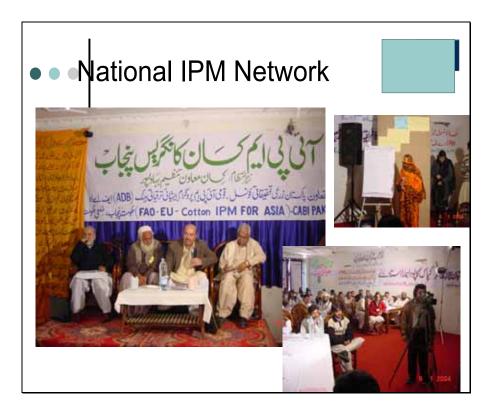




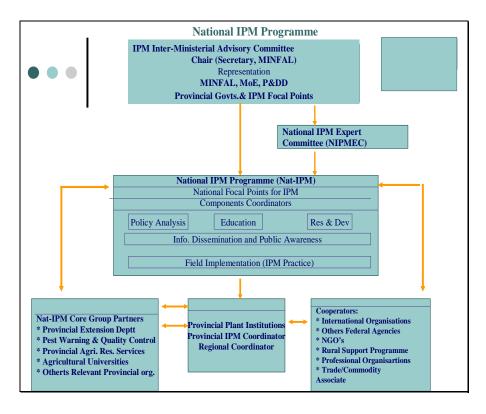












NATIONAL IPM NETWORK





PUNJAB UNIT LAHORE OFFICE National IPM Project Directorate General of PW&QCP 21-Davis Road, Lahore Ph: ++92-042-9200726, 9204372, E-mail: pestwarning@hotmail.com

MULTAN OFFICE National IPM Project H. 230, Taghluq Town, Opposite New General Bus Stand, Multan Cell: 0334-5197907, 0300-5197907 E-mail: khalidjam@hotmail.com

IPM Sub-Station PARC Univerity College of Agriculture BZU, Multan Ph: ++92-061-4746312, Cell: 0300-8377374 E-mail: attaullahg@gmail.com NWFP UNIT National IPM Project Director General Agriculture Extension, Jamrud Road, Peshawar, NWFP Ph: 091-92163772-74 Fax: 091-9216372, 0300-5594947

SINDH UNIT National IPM Project Agriculture Training Institute, Sakrand, Sindh Ph: 0241-22783, Cell: 0231-691715 E-mail: ismailbhatti2004@yahoo.com

BALOCHISTAN UNIT National IPM Project Director Agric.Ext. & Adaptive Research, Rani Bagh, Quetta, Balochistan. Ph: 081-9211510, Fax:081-9211506, Cell:0300-5795650 E-mail: tariqkhan@hotmail.com

IPM Community Organizations Network								
	Organiz	zations						
	Punjab	Sindh	Organizational					
Provincial	1	1	Structure					
Regional	-	-						
District	4	10	President					
FFS	12	27	 Vice-President-I 					
Total	17	38	 Vice-President-II 					
Farmers &	0	1	General Secretary					
Facilitators			 Joint Secretary 					
Facilitator	0	-	5					
Women Facilitator	0	1	Secretary Finance					
Farmer Facilitator	1	1	 Sec. Public Relation & Press 					



KWA (KISSAN WELFARE ASSOCIATION) Regional Agricultural Research Institute, Model Town A, Bahawalpur Ph: ++92-0622-889830, E-mail:kwapunjab@yahoo.com

KISSAN FOUNDATION Pai Ahna, U/C Jhoran Centre Zahir Pir, Tehsil Khan Pur District Rahim Yar Khan Ph: ++92-068-5040501 kissanfoundation@hotmail.com

FIDA (Farmers Integrated Development Association) Plan-Pakistan Program Unit H. No. 233, Main Road, Sharqi Colony, Vehari. E-mail: fidaipm@gmail.com

SADO (Sindh Agriculture Development Organization) Qalandri Tracking Station National Highway Moro District Naushero Feroze, Sindh. Cell 0300-3038376 WADO (Women Agriculture Development Organization) P.O. Jiskani Taulka Kot Diji District Khairpur Mirs' Sindh. Cell 0301-3411867 Ph: 0243-620147

RADO (Regional Agriculture Development Organization) C/O District Officer, Agriculture Extension Noshero Feroze Sindh. Ph: 0242-481234 Fax: # 0242-448451

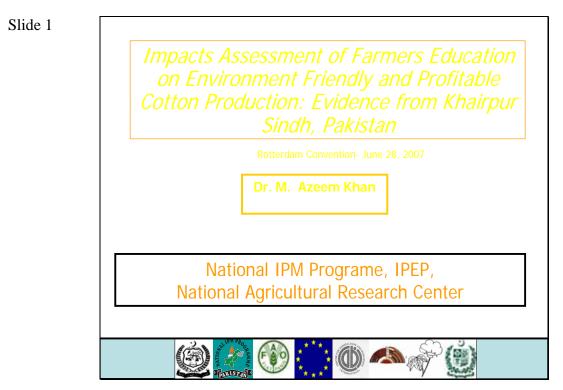
SAO (Sustainable Agriculture Organization) C/O Agriculture Extension Office Kumb P.O Kumb, District Khairpur Mirs' Sindh. Cell # 0300-3113156 Fax: # 0243-9280042

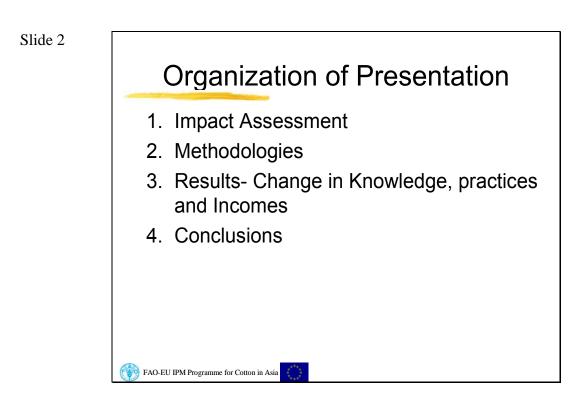
FFO (Farmers Facilitators Organization) C/O DDO Agriculture Extension Taulka Thari Mirwah District Khairpur Mirs' Sindh. Ph: # 0243-790542 NAFO (Natural Agriculture Farming Organization) C/O DDO Agriculrue Singoro. Sindh Ph: # 0235-531031, Cell 0300-3354490, 0345-3724785

FAIDO (Farmer Agriculture Innovative Development Organization) C/O Deputy District Officer, DDO Agriculture Extension Umer Kot, Sindh. Ph: 0238-570074 Cell 0333-2956630

SAFE(Sustainable Agriculture & Friendly Environment) C/O District Officer Agriculture Extension, Qazi Ahmad Road, Nawabshah, Sindh. Cell 0300-3215101

Session 6, Presentation # 4, by Dr. M. Azeem Khan





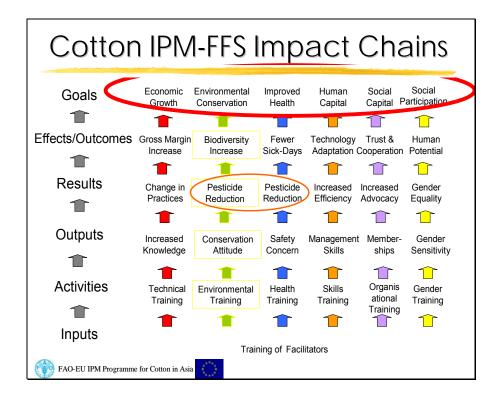


IPM-FFS Impact Targets

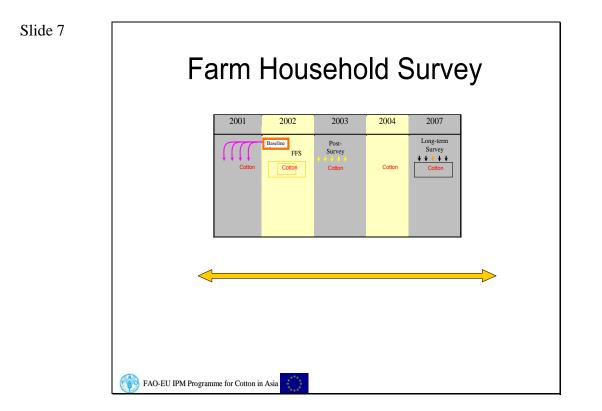
- · Empowerment of Farming Communities
 - Knowledge and Skills
 - Attitude towards Environment
 - Organization as alumni
 - Change in Production Practices
 - Poverty Alleviation / Economic Well-Being
 - Increase in gross margin
 - Reduction in expenditures for agric. Inputs
 - Increased net household income for better nutrition and/or productive assets

(Main FFS beneficiaries are "normal" to marginal cotton farmers)

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Slide 5
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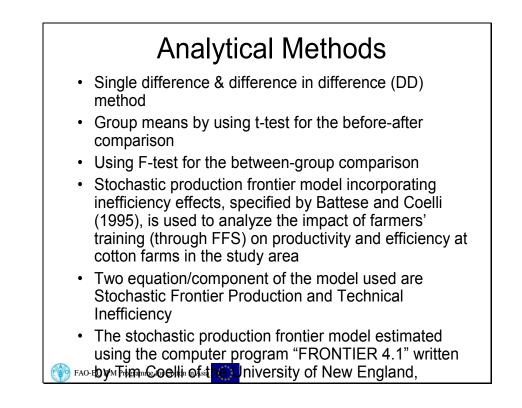








	IPM V	illages	Non-IPM Village
	FFS-Farmers	Non-FFS Farmers	Control Farmers
Pre-Training Baseline	4x25=100	4x15=60	4x15=60
Post-Training Survey	78	59	53
Long-term Post Training Survey	4x25=100	4x15=60	4x15=60



Slide 10



- Gini Coefficient to estimate income inequalities
- Head-count ratio: the proportion of individuals below the poverty line
- Poverty gap indicator: income of the poor and its distance from the poverty line (Sensitive to the number of poor and the extent of poverty)
- FGT measure: sensitive to the distribution of income within the poor
- Redistribution Index: Redistribution index (R) indicates whether the poor population can be compensated through a shift in income from the rich population to the poor. With the index smaller than 1, the rich population is able to provide the compensation
 - Foster, J., J.Greer, and E.Thorbecke. 1984. A Class of Decomposable Poverty Measures. Econometrica 52: 3.

FAO-EU IPM Programme for Cotton in Asia



Change in Knowledge & Empowerments (Differences of Differences)				
(Differences of Differences)				
Variables	FFS-Control	NFFS-Control		

Variables	FFS-Control			NFFS-Control		
	Pre	Post /	Diff	Pre	Post	Diff
Knowledge: pest (#)	0.08	3.23	3.15	0.03	0.94	0.91
Knowledge: natural enemies(#)	0.13	2.93	2.8	-0.01	0.58	0.59
Decision making score	1	25	24	-5	0	5
Experimentation score	6	8	2	3	4	1
Biodiversity score	6	26	20/	5	9	4
Attitude score*	4	46	42	2	9	7
* 15 Statements on: Dependen biodiversity loss, cultural metho on pesticides FAO-EU IPM Programme for Cotton in	ods validity,					

Variables	FF	S-Con	trol	NF	FS-Con	trol
	Pre	Post	Diff	Pre	Post	Diff
Seed Rate (kg/ha)	-1.53	-7.97	-6.44	-1.82	-7.82	-6
Total Fertilizer	-62	-127	-65	-71	-135	-65
N (kg/ha)	-46.96	-82.2	-35.24	-57.28	-95.48	-38.2
P (kg/ha)	-14.97	-44.81	-29.84	-13.22	-39.91	-26.69
Insecticide (#/season)	-1.02	-2.68	-1.66	-1.44	-2.21	-0.77
Insecticide dose (kg/ha)	1	-4.8	-5.8	0.2	-3.6	-3.8
Field EIQ	-2	-239	-237	-34	-180	-146
Total Lab. Md/ha	12.53	9.15	-3.38	4.75	-9.88	-14.63

Slide 14

Change in Outputs/Income (Differences of Differences)

Variables	FF	FFS-Control			NFFS-Control			
	Pre	Post	Diff	Pre	Post	Diff		
Yield (kg/ha)	25.73	25.73 245.2 219.54		-125.47	-162.52	-37.05		
GM (\$/ha)	90.09	366.2	276.17	75.08	126.24	51.16		
GM-(<2ha farmer)	0	414	414	66	158	92		
GM (>4 ha farmers)	158	376	218	-55	85	140		
Social Recognition Score	7	19	12	2	0	-2		
Sick Days\$	7.6	0.3	-7.3	-1.2	1.0	2.3		
Precaution score	15	21	6	9	11	2		

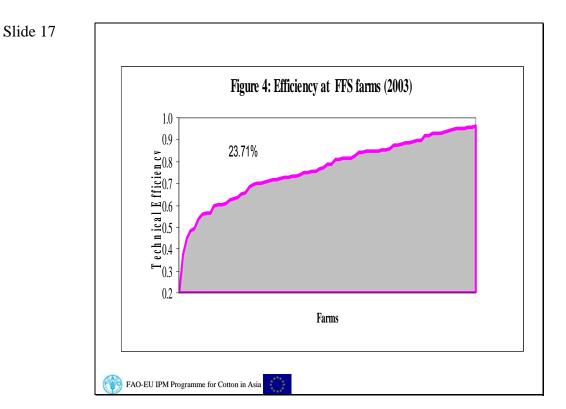
	Ρ	overty	during	Pre ar	nd Po	st FF	S Scenari
	Year	Туре	Incidenc e	Povert y Gap	FGT	Gini	Redis.
	200 1	FFS	0.71	0.38	0.24	0.43	1.03
	I	Non- FFS	0.75	0.47	0.37	0.54	1.38
		Contro I	0.89	0.47	0.60	0.80	7.90
	200 3	FFS	0.55	0.25	0.15	0.47	0.34
	5	Non- FFS	0.69	0.39	0.27	0.52	0.88
		Contro I	0.85	0.70	0.80	0.95	7.49
	200	FFS	0.41	0.16	0.09	0.41	0.18
👘 FA	D-EU IPM P	rogramme for Co	tton in Asia (🗋				

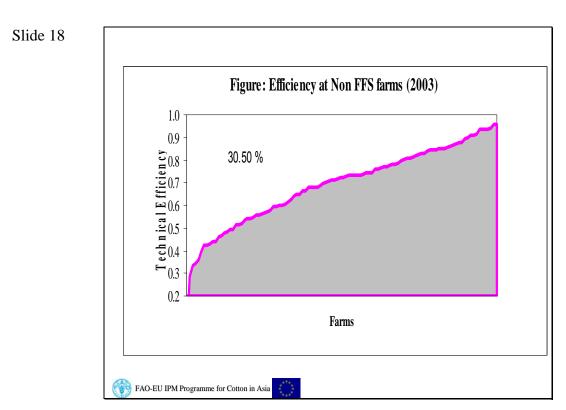
Slide 16

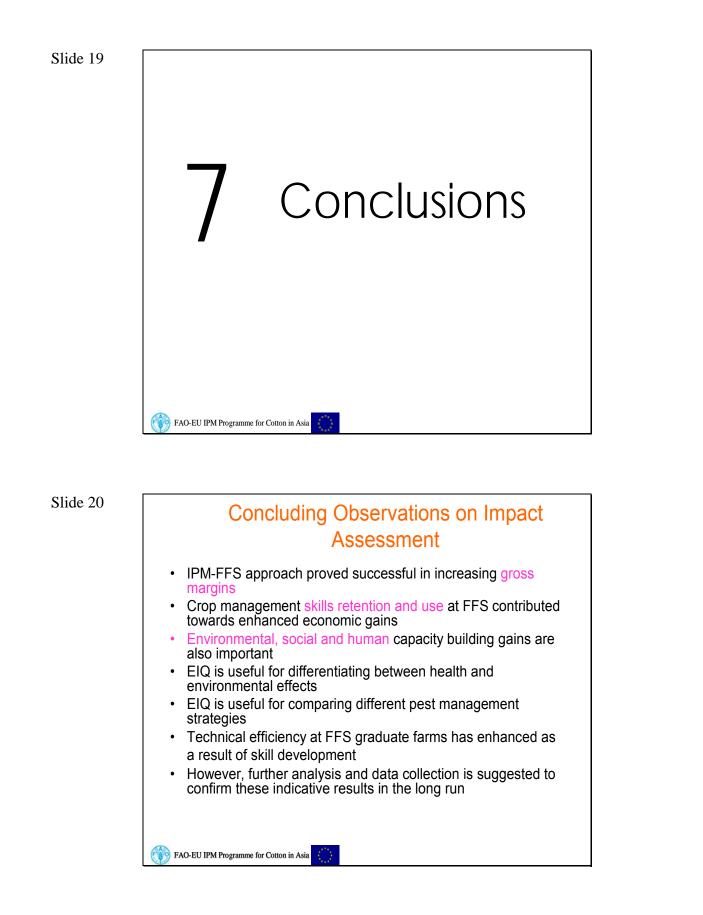
Poverty on FFS Farms: Disaggregated

Year	Туре	Incidenc e	Povert y Gap	FGT	Gini	Redis.
Atten dance	Greater than 90%	0.40	0.18	0.12	0.53	0.12
	50-90%	0.59	0.26	0.15	0.46	0.38
	Less than 50%	0.56	0.26	0.13	0.35	1.23
Far	Up to 1 ha	0.67	0.46	0.34	0.42	2.78
m size	1.01-3.0 ha	0.66	0.29	0.17	0.36	0.85
	> 3 ha	0.35	0.12	0.05	0.46	0.07

FAO-EU IPM Programme for Cotton in Asia







Sustainability: FFS beyond IPM

- Simply diffusion of less practiced FFS knowledge would be a risk towards sustainability
- Institutionalizing farmers to farmers transfer would help in effective diffusion
- Sharpen Focuses on critical factors/technical efficiency of production in Curriculum Design
- Targeted Training of Critical Mass in most Disturbed Production Systems

FAO-EU IPM Programme for Cotton in Asia

PROGRAMME

National Consultation on the Development of National Action Plan for the Implementation of the Rotterdam Convention June 26 – 29, 2007

Islamabad – Pakistan

Day one – June 26 (Tuesday)

8:00 - 9:45	Registration
Opening Session:	
9:45 - 11:00	i. Recitation from Holy Quran.
	ii. Welcome Speech by Joint Secretary
	(International Cooperation), Ministry of
	Environment, Government of Pakistan.
	iii. Opening Remarks by Bill Murray, Secretariat
	of the Rotterdam Convention.
	iv. Speech by FAO Representative in Pakistan.
	v. Inaugural Address by Federal Minister for
	Environment/Secretary, Ministry of
	Environment, Government of Pakistan.
11:00 - 11:15	Group photo
11:15 - 12:00	Tea/Coffee break
2 nd Session	Introduction to the Rotterdam Convention
12:00 - 12:45	Presentation by participants and representative of
	Secretariat of RC
	Overview of the agenda and organization of the
	workshop
	Objectives/Structure
	• Local arrangements
	• Brief overview of the Rotterdam Convention
	• Operation of the Convention
	• Benefits to the Parties
	• The role of designated national authority

12:45 - 13:00	Question/Answer Session	
13:00 - 14:00	Lunch	
3 rd Session	Status of implementation	
14:00 - 14:30	Status of pesticides regulation in Pakistan,	1. DNA for
	opportunities of the Rotterdam Convention in	pesticides
	improving pesticides management in Pakistan	2. Mr. Tariq Nazir,
		SO (IC-I)
14:30 - 15:00	Status of industrial Chemicals regulation in	DNA for Industrial
	Pakistan, opportunities of the Rotterdam	Chemicals
	Convention in improving industrial chemicals	
	management in Pakistan	
15:00 - 15:30	The role of national customs official in the	Representative
	implementation of the RC	from Customs
15:30 - 16:00	The role of other government agencies responsible	
	for chemicals and pesticides import/export	
	regulation (if any, to be confirmed by national	
	counterpart)	
16:00 - 16:15	Question/Answer Session	
16:15 - 16:30	Tea/Coffee break	
16:30 - 17:00	Rotterdam Convention and relevant regional	FAO regional
	activities in pest and pesticides management in the	officer/APPPC
	Asia region	Secretary
17:00 - 17:15	Experience in another Party in the implementation	
	of the Rotterdam Convention	
17:15 – 17:30	Question/Answer Session	
17:30 - 17:45	An overview of current activities under the	Secretariat of RC
	Rotterdam activities	
17:45 - 18:00	Organizing of the work for the next days, break	Secretariat of RC
	out groups (BOG)	

Day two – June 27 (Wednesday)

4 th Session	Operation of the Rotterdam Convention
9:00 - 9:40	Introduction to the key operational elements and Secretariat of RC
	what is required from a Party by the RC
	- The PIC procedure and import response
	- Notification of final regulatory action
	Question/Answer Session
9:40 - 9:50	Preparation of break out groups (BOG) Secretariat of RC
9:50 – 12:30	BOG (break out group) 1 st round discussion
	- import response
	- notification
	(includes coffee break)
12:30 - 13:30	Lunch
13:30 - 14:00	Introduction to the key operational elements and Secretariat of RC
	what is required from a Party by the RC
	(continued)
	- Proposal for severely hazardous pesticide
	formulation
	- Export notification
	- Information to accompany exportation
	Question/Answer Session
14:00 - 14:10	Preparation of break out group (BOG)
14:10 - 16:30	BOG 1 st round discussion (continued)
	On proposal for SHPF, export notification and
	information to accompany exportation
	(including coffee break 15:15 – 15:30)
16:30 - 17:00	BOG chairs to prepare presentation for the next
	morning

Day three – June 28 (Thursday)

9:00 - 9:30	Plenary report by the break out groups Chairs	
5 th Session	Information exchange	
9:30 - 10:00	Opportunities for information exchange	Secretariat of RC
	- Information available from secretariat incl. web	
	site	
	- Information to be requested from government	
10.00 10.17	- Uses of information	
10:00 - 10:15	Plenary discussion on uses of information	
10:15 – 10:30	Tea/Coffee break	
6 th Session	Opportunity for collaboration at national	
	level	
10:30 - 11:00	National IPM programme	
	- impact on risk reduction to human health and	
	environment,	
	- socio-economic impact assessment,	
11:00 - 11:10	- IPM network at field level Preparation for break out group discussion	Secretariat of RC
11:10 - 12:30	BOG 2 nd round discussion	
	- Review the results of the 1 st round BOG	
	discussion	
	- Taking into consideration of possible linkage	
	an integration with relevant ongoing	
	programmes	
	- Identify the key elements of the national action	
	plan	
12:30 - 13:30	Lunch	
13:30 - 14:30	BOG Chairs to prepare a consolidated report	

7 th Session	Consolidation of next steps as a National
	Action Plan for the Implementation of the
	Rotterdam Convention based on the elements
	identified in sessions 1 – 6
14:30 - 15:30	Plenary discussion: presentation of consolidated
	report of the BOG discussions, discuss and
	finalize report.
15:30 - 15:45	Tea/Coffee break
15:45 - 17:00	Drafting Group: based on the consolidated
	results of the BOG, prepare a draft conclusion
	with executive summary

Day four - June 29 (Friday)

9:00 - 9:30	Executive summary and final tables to be
	available for distribution
9:30 - 10:30	Plenary:
	- presentation of the conclusion with draft
	executive summary by the drafting group
	- discussion of the next steps and adoption of the
	conclusion
10:30 - 11:00	Tea/Coffee break
11:00 - 12:30	Concluding Session:
	- Representative from Secretariat of the
	Rotterdam Convention
	- FAO regional officer
	- Representative of the Ministry of Environment
12:30 - 13:30	Lunch

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Make Up Of Organizing Committees

Supervisory Committee

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- 2. Syed Zaheer Ahmad Gillani, Project Manager, National MEAs Secretariat
- 3. Mr. Maqsood Akhtar, Deputy Program Manager, Ozone Cell
- 4. Mr. Zaighum Abbas, Technical officer (Chemicals), M/o Environment
- 5. Mr. Tariq Nazir, Section officer (IC-I), M/o Environment

Drafting Committee

- 1. Dr. Muhammad Irfan Khan, Chairman Environmental Sciences Department
- 2. Ms. Nuzhat Khan, Senior Research Officer, National Institute of Oceanography, Karachi
- 3. Mr. Zaigham Abbas, Technical Officer (Chemicals), Ministry of Environment, Islamabad
- 4. Mr. Asif Hanif, Deputy Project Manager, National MEAs Secretariat, Ministry of Environment.

Management Committee

1. Mr. Fateh Ali Khan, Deputy Project Manager, National MEAs Secretariat

- Chief of Protocol
- Hospitality Arrangements
- Reception of Guests

2. Mr. Noor-Ul-Hadi, Deputy Project Manager, National MEAs Secretariat

• Overall coordination, logistics, conference materials

3. Mr. Asif Hanif, Deputy Project Manager, National MEAs Secretariat

- Master of ceremonies
- Overall conference rapporteur

4. Mr. Ahmad Hussain, Deputy Project Manager, National MEAs Secretariat

- Rapporteur of the technical Sessions
- Participated in hospitality and registration etc.

5. Syed Hashim Raza Zaidi, Subject Specialist, National MEAs Secretariat

- Rapporteur of the reception and technical sessions
- reception of Guests

6. Mr. Waseem Shahid, Stenographer, National MEAs Secretariat

• Assisted in Compiling, Formatting and Typing

7. Syed Naubahar Shah, Finance Assistant National MEAs Secretariat

• Provided Logistics assistance

Annex-IV

BREAKOUT GROUP-I

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DR. MUHAMMAD NAWAZ CH.	MEMBER
MR. MOHAMMAD ALI KHAN	MEMBER
MR. ZAIGHAM ABBAS	MEMBER
MR. YASIR HUSSAIN	MEMBER
MR. MANZOOR ALAM QURESHI	MEMBER
MR. YONG FAN PIAO	ADVISOR
MR. AHMAD HUSSAIN	FACILITATOR / RAPPORTEUR

BREAKOUT GROUP-II

DR. HIZBULLAH KHAN	CHAIR / PRESENTOR
DR. IRFAN KHAN	MEMBER
MR. ASAD ALI SHAH	MEMBER
MR. HUSSAIN MEHMOOD	MEMBER
MR. IMRAN ALI	MEMBER
MR. AMJAD HUSSAIN	MEMBER
MR. IFRAN ULLAH	MEMBER
MR. GAMINI MANUWEERA	ADVISOR
SYED HASHIM RAZA ZAIDI	FACILITATOR / RAPPORTEUR

BREAKOUT GROUP-III

MS. NUZHAT KHAN	CHAIR
MR. MUHAMMAD JAMSHED HASNI	MEMBER / PRESENTOR
MR. MASOOD-UL-HASSAN	MEMBER
MR. MUAHMMAD NAFEES	MEMBER
MR. MUHAMMAD IRFAN KAHN	MEMBER
MR. SHAUKAT FAROOQ	MEMBER
MR. ZAHID ULLAH	MEMBER
MR. TARIQ NAZIR	MEMBER
MR. BILL MURRAY	ADVISOR
MR. ASIF HANIF	FACILITATOR / RAPPORTEUR