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INTERGOVERNMENTAL NEGOTIATING COMMITTEE FOR AN  
INTERNATIONAL LEGALLY BINDING INSTRUMENT  
FOR IMPLEMENTING INTERNATIONAL ACTION ON  
CERTAIN PERSISTENT ORGANIC POLLUTANTS

Seventh session

Geneva, 14-18 July 2003

Item 5 of the provisional agenda\*

**Preparations for the Conference of the Parties**

**INFORMATION AND GUIDANCE NEEDED TO ASSIST IN EVALUATING  
CONTINUED NEED FOR DDT FOR DISEASE VECTOR CONTROL\*\***

Note by the secretariat

1. The production and use of DDT is to be eliminated except for Parties that have notified the secretariat of their intention to produce or use it in accordance with the provisions of annex B of the Stockholm Convention on Persistent Organic Pollutants. Each Party that produces and/or uses DDT must restrict its production and/or use to disease vector control in accordance with World Health Organization recommendations and guidelines on the use of DDT and when locally safe, effective and affordable alternatives are not available to the Party in question (paragraphs 1 and 2 of part II of annex B).
2. Paragraph 6 of part II of annex B of the Convention reads as follows:

“Commencing at its first meeting, and at least every three years thereafter, the Conference of the Parties shall, in consultation with the World Health Organization, evaluate the continued need for DDT for disease vector control on the basis of available scientific, technical, environmental and economic information, including:

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\* UNEP/POPS/INC.7/1.

\*\* Stockholm Convention on Persistent Organic Pollutants, annex B, part II, paragraph 6; Conference of Plenipotentiaries on the Stockholm Convention, resolution 1, paragraph 4 (in document UNEP/POPS/CONF/4, appendix I); report of the Intergovernmental Negotiating Committee on its sixth session (UNEP/POPS/INC.6/22), annex I, decision INC-6/2.

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- (a) The production and use of DDT and the conditions set out in paragraph 2 [of part II of annex B];
- (b) The availability, suitability and implementation of the alternatives to DDT; and
- (c) Progress in strengthening the capacity of countries to transfer safely to reliance on such alternatives.”

3. At its sixth session, the Intergovernmental Negotiating Committee in its decision INC-6/2 requested the secretariat, in cooperation with the World Health Organization, to develop a report on guidance and information needed to assist the Conference of the Parties in evaluating the continued need for DDT for disease vector control as required under paragraph 6 of part II of annex B of the Convention.

4. The secretariat, in cooperation with the World Health Organization, identified a possible initial list of information items needed to assist the Conference of the Parties in evaluating the continued need for DDT for disease vector control. That list is included in annex I to the present note. To facilitate the process of collection and review of the information in preparation for its evaluation at the first meeting of the Conference of Parties, a draft questionnaire, included in annex II of the present note, is proposed for completion by Parties using, producing, importing and/or exporting DDT for disease vector control. For efficiency reasons, section 1 of the questionnaire, which concerns the use of DDT for disease vector control, is the same as that which is proposed in annex I of UNEP/POPS/INC.7/3.

5. Annex III to the present note provides a summary of information needed from Parties on DDT use extracted from a detailed report prepared by the World Health Organization contained in document UNEP/POPS/INC.7/INF/21. This report explains, for all information items identified in annex I to the present note, assessment intent, critical data and proposed data collection methods, and proposes elements of a possible process to evaluate the information collected. It suggests that in addition to questionnaires and other available national and international information sources, it may be necessary in some cases to carry out more in-depth “on-site” studies when more complex issues are present.

6. The annexes to the present note have not been formally edited.

7. The World Health Organization has also developed a list of references to its existing recommendations and guidelines concerning the use of DDT for disease vector control that will be available in UNEP/POPS/INC.7/INF/22. The World Health Organization will also develop a consolidated manual on all existing recommendations and guidelines on DDT use for disease vector control. The published manual will be presented to the first session of the Conference of the Parties to assist in its deliberations.

#### Possible action by the Committee

8. The Committee may wish to consider:

(a) Recommending to the first session of the Conference of the Parties for its consideration, with any amendments, the proposed list included in annex I to the present note of information items needed for the evaluation by the Conference of Parties of the continued need for DDT for disease vector control as required under paragraph 6 of part II of annex B of the Convention;

(b) Noting, with any amendments, the draft questionnaire contained in annex II to the present note for reporting by each Party that uses, produces, imports and/or exports DDT for disease vector control;

(c) Requesting the secretariat, in cooperation with the World Health Organization, to:

- (i) Conduct field tests of the questionnaire in countries that use DDT for disease vector control;

- (ii) Consult with experts in forms design regarding how the present format could be modified to be more efficient and effective in collecting the required information;
- (iii) Develop a modified format taking into account the results of (i) and (ii) above;
- (iv) Submit the modified format to the first session of the Conference of the Parties for its consideration and possible adoption, with any amendments;

(d) Inviting Parties that use, produce, import, and/or export DDT to provide information on such activities using the draft format of the questionnaire above to the secretariat not later than six months before the first session of the Conference of the Parties;

(e) Requesting the secretariat to collect such information from Parties and other relevant information and to prepare a report to assist the Conference of the Parties in evaluating at its first session the continued need for DDT for disease vector control;

(f) Inviting the World Health Organization to participate actively in the work referred to in subparagraph (e) above and in any other manner in which it may support the Conference of the Parties in evaluating the continued need for DDT for disease vector control.

Annex I

POSSIBLE INITIAL LIST OF INFORMATION ITEMS NEEDED TO ASSIST  
THE CONFERENCE OF THE PARTIES IN EVALUATING  
THE CONTINUED NEED FOR DDT FOR DISEASE VECTOR CONTROL

<p><b>A Production and Use of DDT</b></p> <ol style="list-style-type: none"> <li>1. Availability (source, quality)</li> <li>2. Efficacy (entomological, including susceptibility and resistance management, epidemiological)</li> <li>3. Acceptability</li> <li>4. Annual use for disease control (in kg of active ingredient, by disease and target population)</li> <li>5. Current stocks, including stock management</li> <li>6. Human &amp; environmental safety (risk assessment, regulatory measures)</li> <li>7. Cost analysis</li> </ol>
<p><b>B DDT Alternatives (insecticides, methods &amp; strategies)</b></p> <p><u>B 1 Alternative Insecticides including bio-pesticides</u></p> <ol style="list-style-type: none"> <li>1. Alternative insecticide and bio-pesticide options in use</li> <li>2. Availability (source, quality)</li> <li>3. Efficacy (entomological, including susceptibility &amp; resistance management, epidemiological)</li> <li>4. Acceptability</li> <li>5. Annual use for disease control (in kg of active ingredient, by type of application, disease and target population)</li> <li>6. Current stocks, including stock management</li> <li>7. Human &amp; environmental safety (risk assessment, regulatory measures)</li> <li>8. Cost analysis</li> </ol> <p><u>B2 Non-chemical Methods</u></p> <ol style="list-style-type: none"> <li>1. Non-chemical options in use</li> <li>2. Availability (source, quality)</li> <li>3. Efficacy (entomological, epidemiological)</li> <li>4. Acceptability</li> <li>5. Annual use for disease control (by disease and target population)</li> <li>6. Current stocks, including stock management</li> <li>7. Human &amp; environmental safety (risk assessment, regulatory measures)</li> <li>8. Cost analysis</li> </ol> <p><u>B3 Strategies</u></p> <ol style="list-style-type: none"> <li>1. Disease management strategies</li> <li>2. vector control strategies</li> <li>3. Resistance management strategies</li> </ol>
<p><b>C Systems Strengthening</b></p> <ol style="list-style-type: none"> <li>1. Institutional set-ups</li> <li>2. Capacity for planning, implementing, monitoring and evaluation (financial, human resources, infrastructure)</li> <li>3. Capacity for operational research (financial, human resources, infrastructure)</li> <li>4. Capacity for insecticide management (regulatory: registration &amp; control)</li> <li>5. Targets and needs for reducing reliance on DDT</li> </ol>

Annex II

DRAFT QUESTIONNAIRE ON INFORMATION REQUIRED FOR EVALUATING THE CONTINUED NEED FOR DDT FOR DISEASE VECTOR CONTROL PROPOSED FOR REPORTING BY PARTIES USING, PRODUCING, IMPORTING AND/OR EXPORTING DDT FOR DISEASE VECTOR CONTROL

**SECTION 1: USE OF DDT**

See annex 1 of UNEP/POPS/INC.7/3

**SECTION 2: DDT ALTERNATIVES**

45. Please complete the following tables for DDT alternatives that are in use:

Alternative control category	Method or chemical used & mode of application	Disease targeted	Annual use (quantity; for chemicals in kg active ingredient)	Target population (%)	Acceptability <sup>1</sup>	Annual budget (US\$) (also as % of vector control )	Unit cost <sup>2</sup>
Biological control							
Chemical control & related strategies (eg. bednets)							
Environmental control							

<sup>1</sup> End-user refusal rate (Rt) and/or use rate (Ut), indicate as appropriate <sup>2</sup> As appropriate. E.g. unit cost of bednet or cost of chemical application per house

46. Complete the following table on sources of the alternative options listed above, as applicable:

Alternative category	Biological or chemical product used	Source (Import/local)	Formulations (as applicable)	Annual import	Managing authority	Cost (US\$)
Biological control						
Chemical control						

47. Complete the following table on the disposal relating to the alternative options listed:

Alternative category	Biological or chemical product used	Total national stock (kg or quantity, as applicable)	Total obsolete stock (kg or quantity, as applicable)	Disposal method used	Annual disposal cost (US\$)	Agency responsible for disposal
Biological control						
Chemical control						

48. Provide information on vector resistance to any of the insecticides listed previously as DDT alternatives in use:

Disease	Vector species	Insecticide tolerance/resistance reported in the country (indicate region/area of country associated with report)	Year of report

49. Complete the table on other DDT alternative(s) that have been considered for use or have been used in the country in the past:

Alternative control category	Method or product used & mode of application	Disease targeted	Reason why the use of the method/product was rejected or stopped
Biological control			
Chemical control & related strategies (eg. bednets)			
Environmental control			

**Main vector(s) susceptibility to insecticide (DDT alternatives listed)**

50. Please indicate minimum & maximum diagnostic insecticide concentrations for the species.

Disease	Vector species	Insecticide 1:		Insecticide 2:		Insecticide 3		Insecticide 4:		Insecticide 5:	
		Mortality		Mortality		Mortality		Mortality		Mortality	
		Min %	Max %	Min %	Max %	Min %	Max %	Min %	Max %	Min %	Max %
Year last tested											
Maximum diagnostic concentration		.....		.....		.....		.....		.....	
Minimum diagnostic concentration		.....		.....		.....		.....		.....	

**Insecticide efficacy (for each insecticide listed above)**

Insecticide name: \_\_\_\_\_

Please provide the following information on insecticide efficacy:

(a) Insecticide bioassay results by month: yr1

Month1 \_\_\_\_\_

Month2 \_\_\_\_\_

Month3 \_\_\_\_\_

Month4 \_\_\_\_\_

Month5 \_\_\_\_\_

Month6 \_\_\_\_\_

Month7 \_\_\_\_\_

Month8 \_\_\_\_\_

Month9 \_\_\_\_\_

Month10 \_\_\_\_\_

Month11: \_\_\_\_\_

Month12 \_\_\_\_\_

(b) Insecticide bioassay results by month: yr2

Month1 \_\_\_\_\_

Month2 \_\_\_\_\_

Month3 \_\_\_\_\_

Month4 \_\_\_\_\_

Month5 \_\_\_\_\_

Month6 \_\_\_\_\_

Month7 \_\_\_\_\_

Month8 \_\_\_\_\_

Month9 \_\_\_\_\_

Month10 \_\_\_\_\_

Month11: \_\_\_\_\_

Month12 \_\_\_\_\_

(c) Insecticide bioassay results by month: yr3

Month1 \_\_\_\_\_

Month2 \_\_\_\_\_

Month3 \_\_\_\_\_

Month4 \_\_\_\_\_

Month5 \_\_\_\_\_

Month6 \_\_\_\_\_

Month7 \_\_\_\_\_

Month8 \_\_\_\_\_

Month9 \_\_\_\_\_

Month10 \_\_\_\_\_

Month11: \_\_\_\_\_

Month12 \_\_\_\_\_



**SECTION 3: GENERAL HUMAN AND ENVIRONMENTAL SAFETY ISSUES**

52. Has there been any insecticide incident(s) in relation to vector control (generalised human exposure &/or environmental release of INSECTICIDES) in the country? YES\_\_ NO\_\_

53. If the answer to question 52 is yes, please elaborate by completing the following table:

Insecticide (DDT & alternative)	Details of exposure or environmental release?		
	Date	Place	Date

54. For each incident listed in question 53, please indicate (i) how exposure/release came about, (ii) estimated number of people exposed, (iii) remedial measures employed, (iv) who was responsible for the intervention, and (v) what safeguard measures have since been employed to prevent future incidents

\_\_\_\_\_

\_\_\_\_\_

55 Which agency(ies) is(are) responsible for assessing the risks posed by the use of insecticides for public health \_\_\_\_\_

\_\_\_\_\_

56. Are households educated on safety issues relating to insecticides use? YES\_\_ No \_\_.  
Please elaborate

\_\_\_\_\_

\_\_\_\_\_

57. If yes, who does the education? Describe the public education method(s) used

\_\_\_\_\_

\_\_\_\_\_

58. Which agency(ies) is(are) responsible for developing regulations governing use of DDT and other insecticides \_\_\_\_\_

\_\_\_\_\_

59. How are the laws enforced? Is enforcement effective? \_\_\_\_\_

\_\_\_\_\_

60 What are the limitations with the current regulations and regulatory mechanisms, and how can they be improved? \_\_\_\_\_

\_\_\_\_\_

**Disease management strategies**

63. Is there a national vector control policy? YES\_\_\_\_ NO\_\_\_\_

64. Is the country implementing an integrated vector management (IVM) strategy YES\_\_ NO\_\_

65. If yes, please list the components parts of the IVM for the diseases listed in this report:

Disease	Annual budget (US\$)	Vector control component	% of overall budget	Major limitation to implementation

66. Please elaborate on the vector resistance management strategy employed \_\_\_\_\_

67. Provide any information on the entomology laboratories available in country. For each laboratory, indicate if it is adequately equipped to carry out insect resistance testing and related functions. If not please indicate (quantify if possible) the limitations faced: \_\_\_\_\_

68. Is there research into the development of locally appropriate alternative options to DDT?  
 YES \_\_\_\_\_ NO \_\_\_\_\_

69. If yes, please elaborate (indicate institutions leading such research, if any) \_\_\_\_\_

**SECTION 4: SYSTEMS STRENGTHENING**

70. National targets for relevant trained personnel (categorized):

Category of personnel	Level of training (PhD, Master, Bachelor)	Present staffing levels	Targeted staffing level
Technical			
Operational			
other (please list)			
other (please list)			

71. What is the overall budget for disease vector control \_\_\_\_\_ (US\$). Also indicate as a percentage of the national health budget \_\_\_\_\_

72. What is the budget shortfall (US\$) for vector control (actual & percentage) Yr.1 \_\_\_\_ Yr. 2 \_\_\_\_ Yr. 3 \_\_\_\_

73. Give the proportion of the annual budget mobilized locally \_\_\_\_\_ and externally \_\_\_\_\_

74. List the vector control training facilities in the country

Training facility	Training level provided (degree or other)	Annual output

75. Elaborate on the in-service training programmes available, especially at the regional and district levels:

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76. Do formal mechanisms exist for inter-sectoral collaboration in disease vector control YES \_\_ NO \_\_ If yes, please elaborate \_\_\_\_\_

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77. If the answer to question 76 is NO, what are the limitations to developing such mechanisms

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78. What are the limitations to the monitoring and evaluation of vector control programmes? \_\_\_\_\_

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and how can they be best overcome? \_\_\_\_\_

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Annex III

SUMMARY OF INFORMATION NEEDED FROM PARTIES ON DDT USE

<b>Basic information</b>	<b>Assessment intent</b> (Why the basic information is needed)	<b>Critical data needed</b> (What minimum data is needed)	<b>Collection method</b> (How the data is to be collected)
<b>A. PRODUCTION AND USE OF DDT</b>			
<b>Availability (source, quality)</b>	Information on how much DDT is available to a Party (sources and amount of production, export & import) and the formulations of DDT.	a. Annual production, export or import of active ingredient b. Formulations c. Production plant information (location & capacity) d. Import source(s) & repackaging information	(a - d) Questionnaire &/or review of country records (e.g. POPs Inventories, Ministry reports) - Other collection supplements (e.g. WHOPES & UNIDO database on POPs).
<b>Annual use for disease control</b>	Indicates need for DDT; criteria for application & coverage. Decision making/Institutional structures	a. Annual amount of active ingredient used, by disease: - application criteria - geographical areas - population coverage b. Disease profiles in application areas c. Decision making process on use	(a- c) Questionnaire & supplemented by review of country reports (c) Evaluation reports of periodic direct assessment
<b>Current stocks, including stock management</b>	Evaluation of current stock; the conditions of stocks & storage facilities, as well as the distribution systems utilized.	a. Annual stock in use & condition of stocks b. Storage (location/capacity of facilities & storage conditions) c. Distribution systems in use	(a & b) Questionnaire & supplemented by review of country reports (e.g. Pesticide Inventories), as well as WHOPES records (b & c) Evaluation reports of periodic direct assessment
<b>Disposal</b>	Evaluation of the disposal methods in use for (a) small amounts of unwanted chemicals, (b) application containers and (c) obsolete stocks Disposal capacity	a. Disposal methods for application containers & residuals of DDT b. Disposal methods for obsolete DDT c. Disposal facilities (location, capacity and annual amount disposed)	(a - c) Questionnaire. (a - c) Evaluation reports of direct periodic assessment

Basic information	Assessment intent (Why the basic information is needed)	Critical data needed (What minimum data is needed)	Collection method (How the data is to be collected)
<b>Efficacy (entomological, including susceptibility and resistance management, epidemiological)</b>	To validate the assumptions underlying DDT application choices (vis-à-vis epidemiology profile of disease, & vector ecology)	a. Annual susceptibility test b. DDT residual efficacy bioassays (monthly) c. Disease prevalence rates. d. Entomological inoculation rates e. Components of resistance monitoring mechanisms	(a - e) Questionnaire & supplemented by review of country reports (e.g. Ministry of health)  (e) Evaluation reports of periodic direct assessment
<b>Acceptability</b>	Level of acceptance of DDT application; indication of public involvement in decision making processes	a. Refusal + re-plaster rates (+ reasons given by targeted populations)	Questionnaire
<b>Human &amp; environmental safety (risk assessment, regulatory measures)</b>	Provides insight into measures for promoting health and environmental protection.  Evaluates regulatory mechanisms and efficacy of regulations	a. Components risk assessment strategy b. Descriptives on (+ efficacy of ) regulatory mechanisms c. DDT Incidents, if any	(a - c) Questionnaire & supplemented by review of country reports
<b>Cost analysis</b>	Will enable comparative evaluation with other options currently employed & cost-effective analysis	a. Annual cost/budget for DDT application (by disease & to overall vector control)  b. Cost per cycle & per household	(a & b) Questionnaire & supplemented by review of country reports
<b>B 1. ALTERNATIVE INSECTICIDES INCLUDING BIO-PESTICIDES</b>			
<b>Availability (source, quality)</b>	Information on how many DDT insecticide alternatives are available to a Party, and the formulations in use.	a. Annual production, export or import of active ingredient b. Formulations c. Production plant information (location & capacity) d. Import source(s) & repackaging information	(a -d) Questionnaire &/or review of country records (e.g. POPs Inventories, Ministry reports)  - Other collection supplements (e.g. WHOPES)

Basic information	Assessment intent (Why the basic information is needed)	Critical data needed (What minimum data is needed)	Collection method (How the data is to be collected)
<b>Annual use for disease control</b>	Indicates need for pesticide; criteria for application; coverage etc. Decision making/Institutional structures Insecticides application processes This will aid the assessment of validity of assumption underlying use of chemical alternatives.	a. Annual amount of active ingredient used (by alternative & disease): - application criteria - geographical areas - population coverage b. Disease profiles in application areas (not covered under DDT) c. Decision making process on use of insecticides	(a- c) Questionnaire & supplemented by review of country reports (c) Evaluation reports of periodic direct assessment
<b>Current stocks, including stock management</b>	Evaluation of current stocks of alternative insecticides; the conditions of stocks & storage facilities, as well as the distribution systems utilized.	a. Annual stock in use & condition of stocks b. Storage (location/capacity of facilities & storage conditions) – if not covered under DDT c. Distribution systems in use	(a & b) Questionnaire & supplemented by review of country reports (e.g. Pesticide Inventories), as well as WHOPES records (b & c) Evaluation reports of periodic direct assessment
<b>Efficacy (entomological, including susceptibility and resistance management, epidemiological)</b>	To validate the assumptions underlying the use of the alternatives (vis-à-vis epidemiology profile of disease, & vector ecology)	a. Annual susceptibility test b. Insecticide residual efficacy bioassays (monthly) c. Disease prevalence (if not covered under DDT) d. Entomological inoculation rates e. Components of resistance monitoring mechanisms (if not covered under DDT)	(a - e) Questionnaire & supplemented by review of country reports (e.g. Ministry of health) (e) Evaluation reports of periodic direct assessment
	Evaluation of the disposal methods in use for (a) small amounts of unwanted chemicals, (b) application containers and (c) obsolete stocks Disposal capacity	a. Disposal methods for application containers & residuals of insecticides IF NOT COVERED UNDER DDT: b. Disposal methods for obsolete insecticides c. Disposal facilities (location, capacity and annual amount disposed)	(a - c) Questionnaire. (a - c) Evaluation reports of direct periodic assessment
<b>Acceptability</b>	Level of acceptance of DDT insecticide alternatives; indication of public involvement in decision making processes	Acceptance &/or use rates (+ associated reasons given by targeted populations)	Questionnaire

Basic information	Assessment intent (Why the basic information is needed)	Critical data needed (What minimum data is needed)	Collection method (How the data is to be collected)
<b>Human &amp; environmental safety (risk assessment, regulatory measures)</b>	Provides insight into measures promoting health and environmental protection. Evaluation of regulatory mechanisms (including institutional structures) and efficacy of regulations; needs History of insecticide incidents (relating to vector control) Public awareness strategies Worker safety issues	a. Components of risk assessment strategy b. Descriptives on (+ efficacy of) regulatory mechanisms c. Insecticide incidents, if any d. Descriptives on worker safety & public awareness strategies	(a - c) Questionnaire & supplemented by review of country reports
<b>Cost analysis</b>	To make possible comparative evaluation with other options currently employed & cost-effectiveness analysis	a. Annual budget for alternative application (by disease & proportion of overall vector control) b. Cost per application cycle (& per household, as applicable)	(a & b) Questionnaire & supplemented by review of country reports
<b>B 2. NON-CHEMICAL METHODS</b>			
<b>Availability (source, quality)</b>	Evaluate alternative non-chemical options in use; sources and quality of related materials and products, a appropriate.	a. List of methods in use: b. Annual production, export or import of related materials & products (as appropriate) c. Production facility (capacity & location)	(a - c) Questionnaire &/or review of country records (e.g. POPs Inventories, Ministry reports) - Other collection supplements (RBM-MAL sources)
<b>Current stocks, including stock management</b>	Current stock information; conditions of stocks & storage facilities	a. Annual stock of main materials and products (nets etc.) b. Storage (location/capacity of facilities & storage conditions) c. Technical & management personal (national/local areas) d. distribution/delivery processes	(a - d) Questionnaire &/or review of country records (e.g. POPs Inventories, Ministry reports) (b - d) Evaluation reports periodic direct assessment

<b>Basic information</b>	<b>Assessment intent</b> (Why the basic information is needed)	<b>Critical data needed</b> (What minimum data is needed)	<b>Collection method</b> (How the data is to be collected)
<b>Annual use for disease control (by disease and target population)</b>	Evaluation of the need for methods in use (by disease type and coverage).	Annual coverage (by method): - amount of main products/materials used - targeted diseases - geographical areas covered - population coverage by method (also as proportion of overall vector control)	Questionnaire & supplemented by review of country reports
<b>Efficacy (entomological, epidemiological)</b>	Validate assumptions underlying the use of methods employed	Contributory impact on disease prevalence (measurement of bite rates in relation to ITMs, impact on vector density etc. as appropriate)	Questionnaire & supplemented by review of country reports (vector control programme reports)
<b>Acceptability</b>	Level of acceptance of DDT application; indication of public involvement in decision making processes	Use rate (+ reasons given by targeted populations)	Questionnaire
<b>Human &amp; environmental safety (risk assessment, regulatory measures)</b>	Evaluation of risks posed by the use of methods, as well as regulatory structures and mechanisms ensuring appropriate use	Components of risk assessments strategy (by method) - major findings of risk assessment	Questionnaire & supplemented by review of country reports
<b>Cost analysis</b>	Cost evaluation of the different methods in use to enable comparative assessment of cost-effectiveness, etc.	Annual programme budget per method, including: - Funding sources for related products and materials etc) - unit cost + annual recurrent cost or cost per application, as appropriate	Questionnaire & supplemented by review of country reports (vector control programme reports)
<b>B3. STRATEGIES</b>			
<b>Disease management strategies</b>	Evaluation of disease management options and impact on disease incidences	List of disease management options (+ related budgets) Descriptives on delivery methods Impact on disease incidence	Questionnaire & supplemented by review of country (Sector) reports Also validated by the evaluation reports on direct periodic assessments



Basic information	Assessment intent (Why the basic information is needed)	Critical data needed (What minimum data is needed)	Collection method (How the data is to be collected)
<b>Vector control strategies</b>	Evaluation of disease control strategies and impact on disease incidences	List of vector control options in use Vector control targets List of past options and reasons for termination Descriptives on delivery methods (institutional & programmatic) Impact on disease incidences (local & national, as appropriate)	Questionnaire & supplemented by review of country (Sector) reports Also, validated by the evaluation reports on direct periodic assessments
<b>Resistance management strategies</b>	Assessment of mechanisms for preventing vector resistance to the options in use	Descriptives on (+efficacy of) resistance mechanisms/structures	Questionnaire & supplemented by review of country reports Also, validated by the evaluation reports on direct periodic assessments
<b>C. SYSTEMS STRENGTHENING</b>			
<b>Capacity for planning, implementing, monitoring and evaluation (financial, human resources, infrastructure)</b>	Situational assessment to explore opportunities for strengthening (for both needed resources and no-cost improvements)	Trained management personnel (by technical area & distribution)	Questionnaire & supplemented by review of country reports
<b>Capacity for operational research (financial, human resources, infrastructure)</b>		Annual vector control budget (+ as proportion of overall disease management) Sources of funding (local and external) List of relevant training institutions	Also, validated by the evaluation reports on direct periodic assessments
<b>Capacity for insecticide management (regulatory: registration &amp; control)</b>		Regulatory mechanisms (+ efficacy)	
<b>Targets and needs for reducing reliance on DDT</b>	Needs assessment	a. Program gaps b. Policy, regulatory and institutional gaps c. Technical manpower gaps (by technical area) d. Training gaps e. Annual funding gaps	Questionnaire & supplemented by review of country reports Also, validated by the evaluation reports on direct and detailed periodic assessments

Basic information	Assessment intent (Why the basic information is needed)	Critical data needed (What minimum data is needed)	Collection method (How the data is to be collected)
<b>SUPPLEMENTARY</b>  <b>vector control methods used in the past (insecticides, bio-pesticides and non-chemical)</b>	Information on what methods have been applied in the past and the reasons for their discontinuation	List of options used in the past - Length of time in use - reasons for discontinuation	Questionnaire

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