



Regional Program for Action and Demonstration of Sustainable Alternatives for DDT-free Malaria Control in Mexico and Central America (PAEDDT)



Proposal to the GEF presented by the CEC, PAHO and the governments of Belize, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua and Panama

Background

Actions taken in the PDF phase of PAEDDT (2000-2001)

- **Formation of the Steering and Operating Committees.** Mexico, September 2000.
- **Formation and initial meetings of national working groups in each of the 8 participating countries.**
- **Scientific meeting on new malaria control methods.** Panama, February 2001.
- **Preparation of national reports.**
- **Regional workshop.** Guatemala, March 2001.
- **Preparation of proposal to GEF (PAHO, CEC and participating countries).**

Objectives



Contribute to the protection of human health and ecosystems in Mexico and Central America by promoting new approaches to malaria control within an integrated, coordinated regional program that will help to build the national capacity needed to apply these alternative methods.

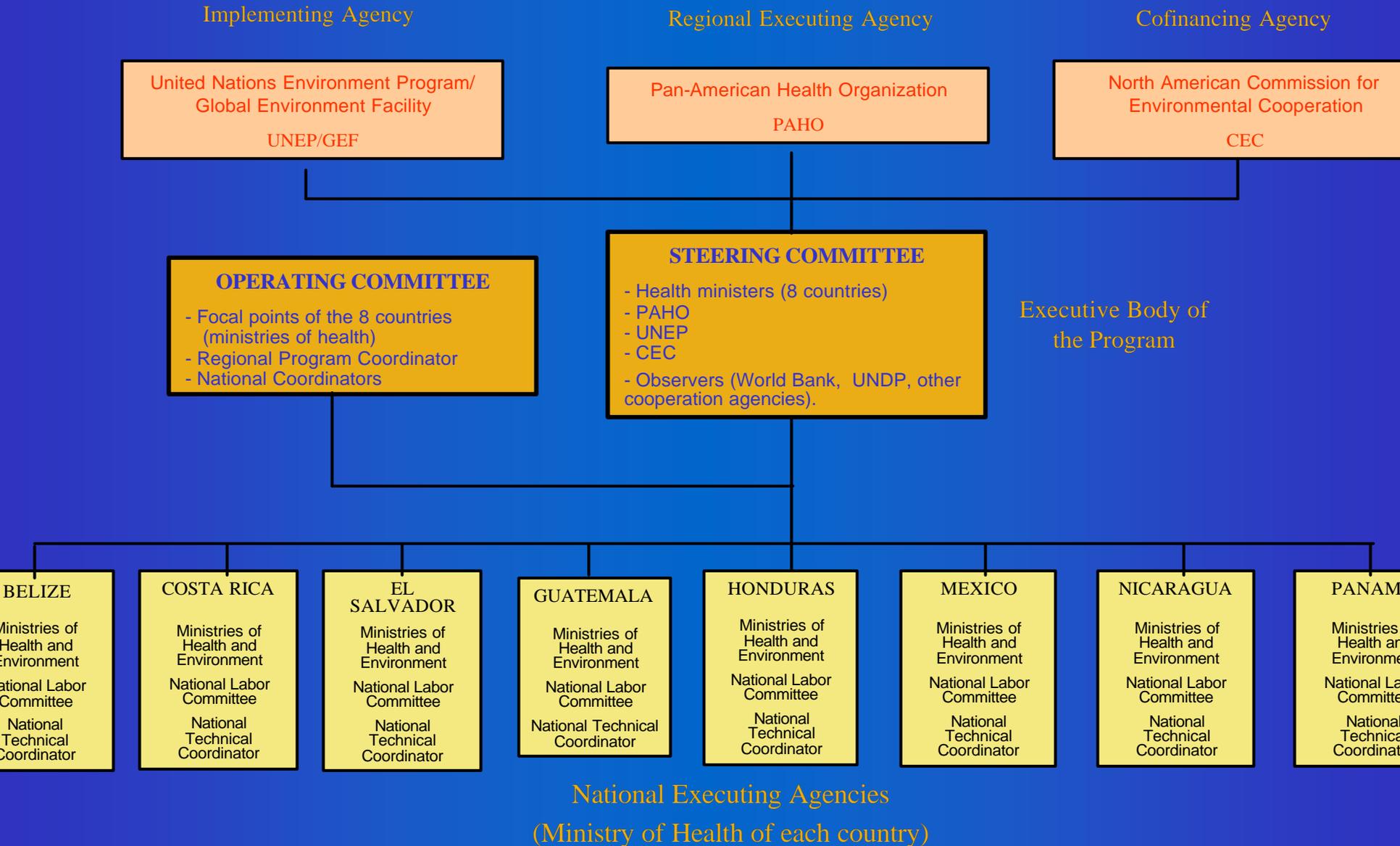
- Prevent the reintroduction of DDT into the region.
- Promote the use of integrated DDT-free malaria control techniques.
- Build national and regional institutional capacity.

Coordination



- 8 countries (Belize, Costa Rica, El Salvador, Guatemala, Honduras, Mexico, Nicaragua and Panama)
- 16 government departments (ministries of health and environment)
- 3 international agencies
 - UNEP (implementing agency)
 - PAHO (executing agency)
 - GEF (will provide funding)
- CEC as partner and promoter of the program.

Organization and Administration



Program Components



Component 1. Demonstration Projects and Publicity

- Implement, evaluate and publicize alternative DDT-free control strategies for malaria vectors at 9 localities having specific ecological and socioeconomic features.
- Build national capacity to manage and disseminate information on alternative malaria control strategies.
 - Regional Information System (Web site, geographic information system (GIS), accesibles databases, publications, etc.);
 - Build capacity of national laboratories.

Program Components



Component 2. Building National Institutional Capacity

- Develop sufficient national and local capacity to control malaria with DDT-free methods, as part of a regional network comprising information systems, data quality assurance programs and adequate information exchange.

Program Components



Component 3. Elimination of DDT Stockpiles

- Inventory existing stockpiles
- Secure inadequately stored stockpiles
- Eliminate obsolete stockpiles
- Donation of good quality stockpiles (with adherence to the specifications of the Stockholm Convention on POPs).

Program Components



Component 4. Coordination and Administration

- One regional program coordinator and one national coordinator in each participating country to facilitate the organization, implementation and evaluation of demonstration projects.
- Annual meetings of the Steering and Operating Committees.
- Planning and operational evaluation meetings.

Anticipated Results

1. Models replicable in other parts of the world where similar environmental conditions and vectors exist.
2. Regional epidemiological information system on malaria control integrated with the national public health monitoring systems of each country.
3. Increased participation of NGOs, academic institutions and other local, national and regional civic organizations supporting DDT-free malaria control strategies.
4. Up-to-date information on the human health and ecosystem effects of pesticides used in malaria control.

Program Budget



Program Costs (in thousand US\$)

| Component | GEF Contribution | Government | | | | Total |
|---|------------------|--------------|------------|------------|-------|---------------|
| | | Cofinancing* | CEC | PAHO* | Other | |
| COMPONENT 1 : DEMONSTRATION PROJECTS AND PUBLICITY | 3,412 | 2,214 | 200 | 150 | | 5,976 |
| COMPONENT 2 : INSTITUTIONAL CAPACITY BUILDING | 1,244 | 360 | ** | 364 | ** | 2,368 |
| COMPONENT 3 : ELIMINATION OF DDT STOCKPILES | 400 | 40 | | 50 | ** | 510 |
| COMPONENT 4 : COORDINATION AND ADMINISTRATION | 1,285 | 200 | ** | 90 | ** | 1,775 |
| TOTAL | 6,341 | 2,814 | 200 | 654 | | 10,009 |
| PAHO PROGRAM SUPPORT COSTS : (13 %) | 824 | | | | | 824 |
| PDF - B PHASE OF THE PROGRAM | 330 | * 240 | *** 100 | * 100 | | 770 |
| Total | 7,495 | 3,054 | 300 | 754 | | 11,603 |

* Cash contribution.

** The possibility of financing under these headings is under discussion.

*** From 1996 to 1999, the CEC supported project and actions for an amount of \$442,000, in addition to the \$100,000 corresponding to the PDF phase undertaken during 2000-2001, for a total amount under this heading of \$542,000.

Actions in México

Epidemiological monitoring:

- ~ Promotion of monthly reporting
- ~ Epidemiological investigation

Control of parasite (*Plasmodium sp.*):

Elimination of the parasite from the persistent population through:

- Timely diagnosis.
- Single-dose treatment.

Actions in México

Control of vector (*Anopheles sp.* mosquitos):

- **Larval phase**

- ~ Elimination of mosquito breeding areas with community participation on a monthly basis.

- ~ Where *Anopheles albimanus* predominates, this will be done in the first half of the year.

- **Adult phase**

- ~ Rapid low-volume residential spraying with pyrethroid (deltamethrin); only in houses with at least one case of malaria.

Proposal Evaluation Process

- Report to the Council of the CEC for the US \$200,000 contribution to the Program for a 3-year period.
- Meeting of the Steering Committee in Mexico City (September 2001) to approve the Program proposal.
- PAHO submitted the Program proposal to GEF in October 2001.
- To date, letters of support have been received from 6 of the 8 participating countries. Mexico and Guatemala are expected to provide their letters shortly.

Benefits

- **Demonstration of potential to implement the POPs Convention.**
- **Forging ties between health and environment institutions.**
- **Forging ties between the CEC and other international organizations dealing with the environment and other areas.**
- **Experience gaining access to international funds on a large scale.**
- **Experience with capacity building.**

Proposed Additional Actions

- **Meeting of Health and Environment Ministers**
 - **Presentation of Regional Action Program on DDT in Mexico and Central America by a minister from that region (UNEP, GEF, PAHO, CEC, 8 governments).**
- **Johannesburg**
 - **Demonstrate North America's leadership in the sound management of chemicals, specifically in relation to the POPs Convention.**