



SGP CHEMICALS & WASTE FOCAL AREA





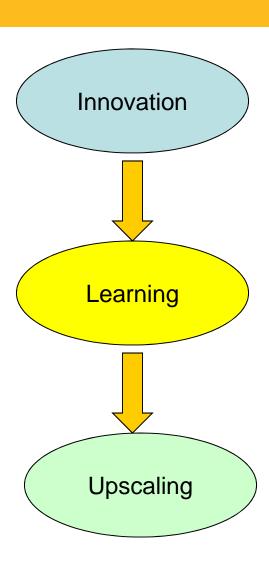
GEF-6 Chemicals & Waste

Goal: to prevent the exposure of humans and the environment to harmful chemicals and waste, including POPs, mercury, other harmful chemicals and heavy metals, through community based approach to prevent, reduce or eliminate the production, use, consumption and emissions/releases of these harmful substances.

SGP Approach & Strategy

Local to Global Coalition

- Knowledge generation and sharing
- Networking
- Policy Advocacy



Multiple Benefits



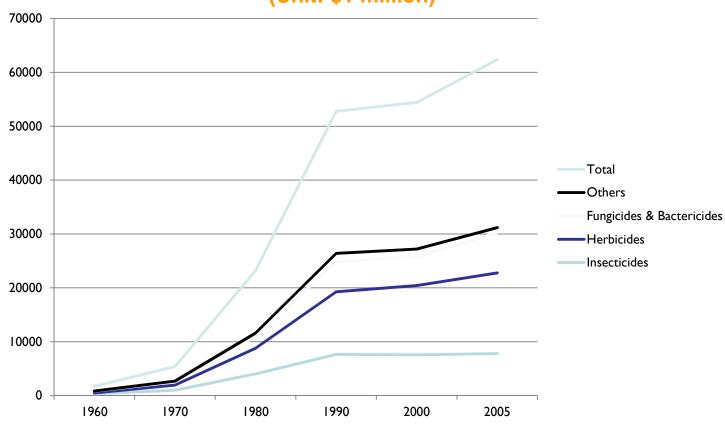
Livelihoods and socio-economic benefits

Community Empowerment



Thematic Area I: Pesticide Management

Pesticides Consumption Worldwide (Unit: \$1 million)



Source: Zhang, 2011

Thematic Area I: Pesticide Management

Pesticide Management

- Packing, storage and environmental disposal of obsolete pesticide
- Organic farming and certification
- Technologies & alternatives to pesticides (e.g. traditional knowledge)



Thematic Area I: Pesticide Management

Proposed activities:

- Introduction of alternatives to DDT for vector control including approaches to improve their safe and rational use for public health
- Introduction of non-chemical alternatives
- Integrated pesticide management including in the context of food security
- Design of products and processes that minimize the use and generation of hazardous substances and waste

Thematic Area 2: Waste Management

The issues we are facing:

- E-waste: 48.9 million metric tons worldwide in 2012 to 65.4 million metric tons in 2017 (equivalent to 200 Empire State Buildings)
- Plastics: In 2010 alone, 265 million tonnes of plastics were produced, 5% increase every year

Thematic Area 2: Waste Management

Waste Management (solid waste sorting, collection and recycling to avoid open burning

- Domestic solid waste
- Medical waste
- E-waste
- Plastics recycling







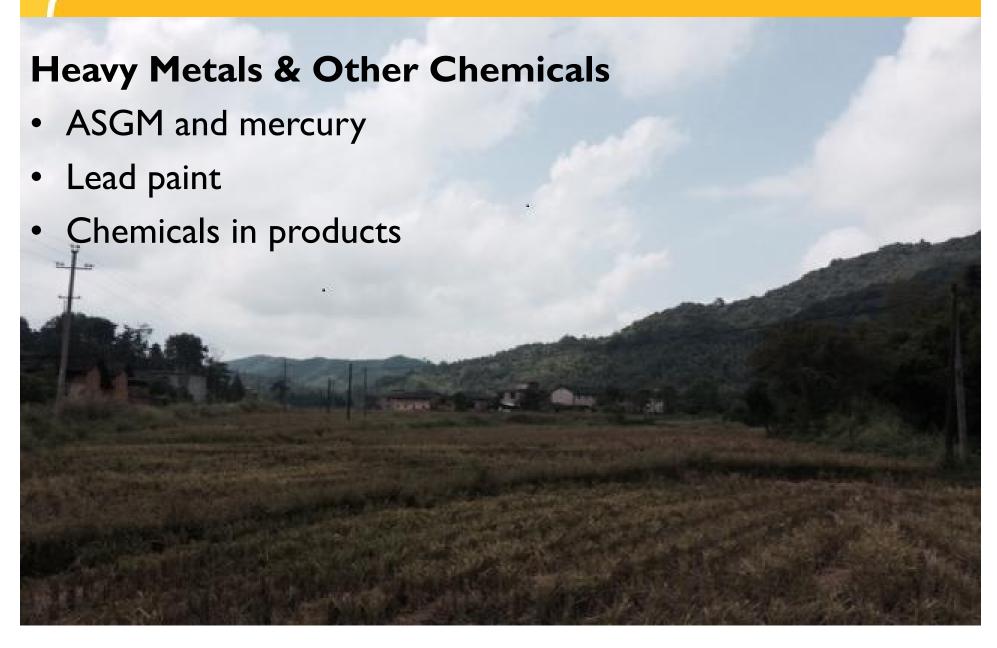


Thematic Area 2: Waste Management

Proposed Activities

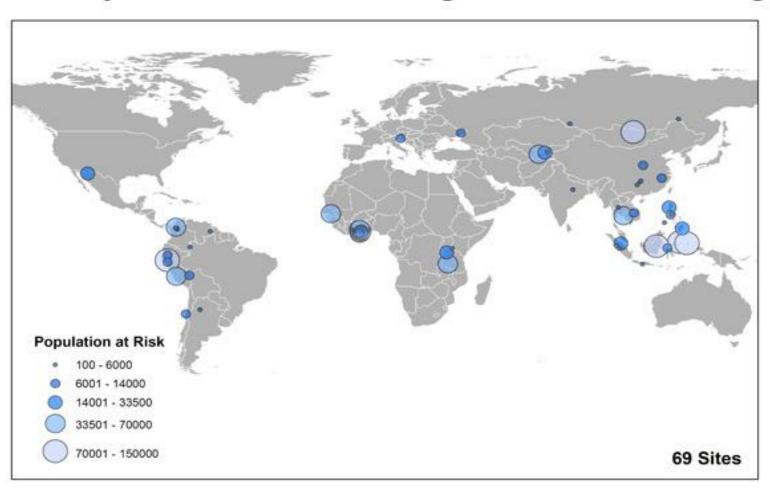
- Promote sound solid waste management to avoid public open burning through alternative environmentally sound waste disposal and management
- Develop or establish community-based waste sorting, collection, recycling or environmentally sound waste management (e.g. sustainable cities)
- Develop and implement integrated waste management plan at the community level generating livelihoods, health and other benefits
- Promote awareness-raising, knowledge and technical capacity for waste management

Thematic Area 3



Mercury

Mercury Pollution from Mining and Ore Processing



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Top Gold Mining Countries

- Uzbekistan (9th World largest producing country)
- Kyrgyzstan (24th)
- Kazakhstan (27th)
- Turkey (30th)
- Tajikistan (54th)
- Armenia (60th)



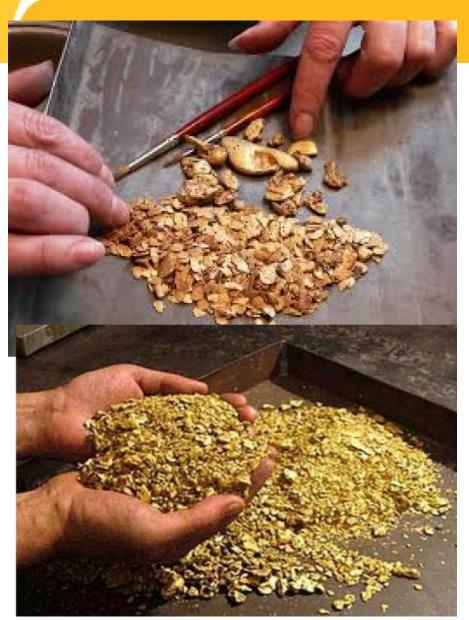


Thematic Area 3 Artisanal and Samll-scale Gold Mining (ASGM)





Most Artisanal miners use mercury amalgamation with no personal or environmental precautions



Gold-mining and mercury

Whole ore amalgamation is very common and is the most polluting practice possible.



Thematic Area 3 Heavy metals and other chemicals

- Support the development, testing and demonstration of technologies, alternatives, techniques to avoid the use or release of heavy metals and other chemicals
- Introduce technology and training that will help artisanal miners reduce the amount of mercury (e.g. mercury retort device)
- Promote alternative livelihoods activities for miners
- Enhance local communities' awareness

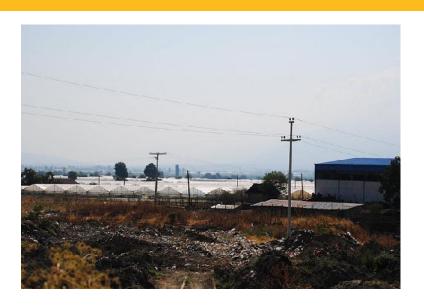
Thematic Area 4 Coalitions and Networks

Local to global coalition

- Systems of local certification of producers and/or their products
- Development and implementation of local certification manual/guidelines
- Networking of producers
- Strategic linkages and agreements between producers and consumers
- Advocacy for national policies that will influence chemicals import and export.

Case: Agriculture Waste Management in Macedonia

- Awareness and capacity development workshops
- Individual village plans
- Waste collection sites were created in the two villages
- Establishment of waste management system, including collection and recycling
- Project results upscaled by four local governments and USAID





Case: Turning Tires Burning into Shoe Making

- Stockholders' meetings
- Baseline survey to map major open burning spots in Mombasa
- Awareness raising and capacity building
- Demonstration





Case: PEN Award PCB Project in Nepal

Project activities

- Media, knowledge and campaign
- Medical waste sorting and appropriate disposal
- An alternative welding machine model introduced reduce POPs release





Project Results:

- Reduced dioxin an furan release by preventing the burning of medical waste treatment in Kanti children hospital
- Approximately 2,000 litres of PCBs contaminated transformer oil avoided

Mercury Waste Management, China

Community-based Mercury-contained Waste Investigation and Collection









- 9 hardware stores joined project and become the mercury-contained lamps collection stations
- √ 300 volunteers involved and 4548 mercury-contained lamps collected
- Mercury-contained
 waste sorting has
 been incorporated
 into the waste
 sorting
 demonstration sites
 in Shanghai

Results, Reporting & Sharing

Project level indicators:

- Tons of waste avoided open burning
- Tons of pesticides avoided and reduced

Portfolio level indicators:

- Number of technologies, alternatives and practices to avoid the use of chemicals/harmful substances
- Number of coalitions/networks

