



**Sumitomo Chemical's
Contribution to
Malaria Control in Africa**

**Shigenori Tsuda, Ph.D.
Executive Officer
Sumitomo Chemical Co., Ltd**

**April 9, 2007
WB CSR Seminar
Tokyo, Japan**

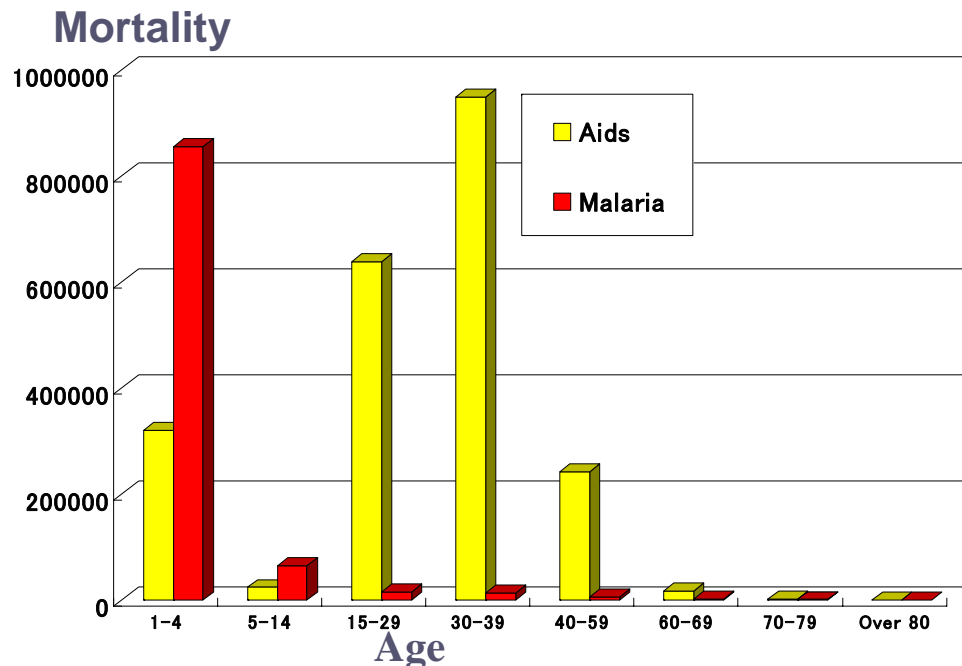
Contents

- I. Current Situations on Malaria Disease
- II. Olyset[®] Net / Long-Lasting Insecticidal Net
- III. Local Manufacture of Olyset[®] in Tanzania
- IV. Sumitomo Chemical' Support for Millennium Promise
- V. Sumitomo Chemical's Education Support Activities in Africa
- VI. Closing

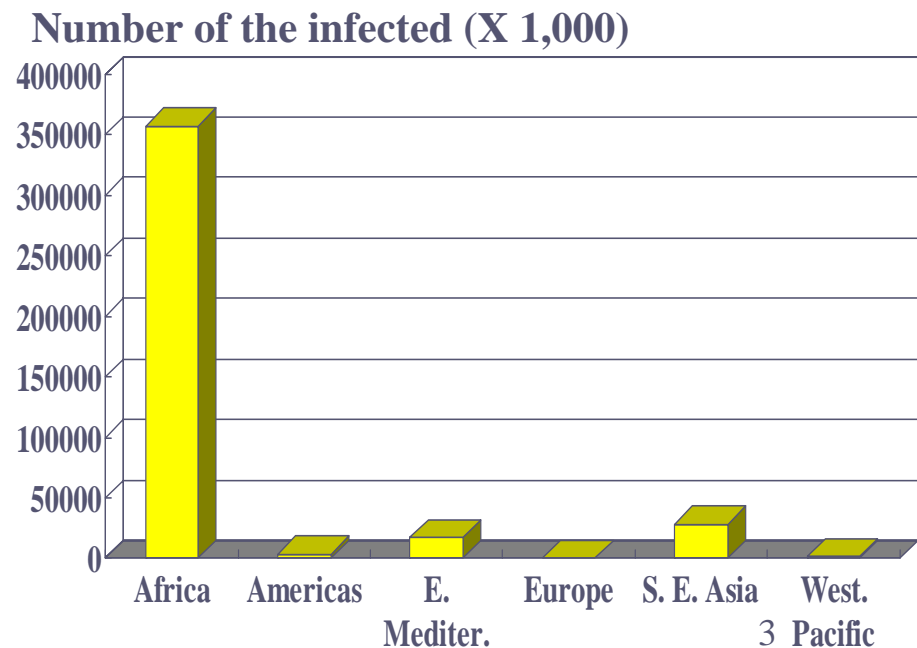


Threat of Malaria

1. 300 Mio. Malaria cases/year
2. >1 Mio. deaths/year (3,000 deaths/day)
3. 0.9 Mio. deaths are children under 5 years old (one death every 30 seconds)
4. Most of Malaria cases are in Africa



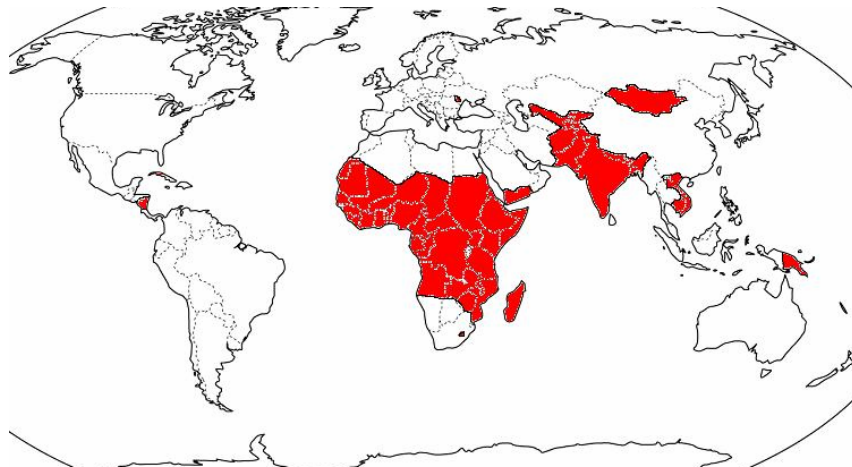
Source: WHO (2001)



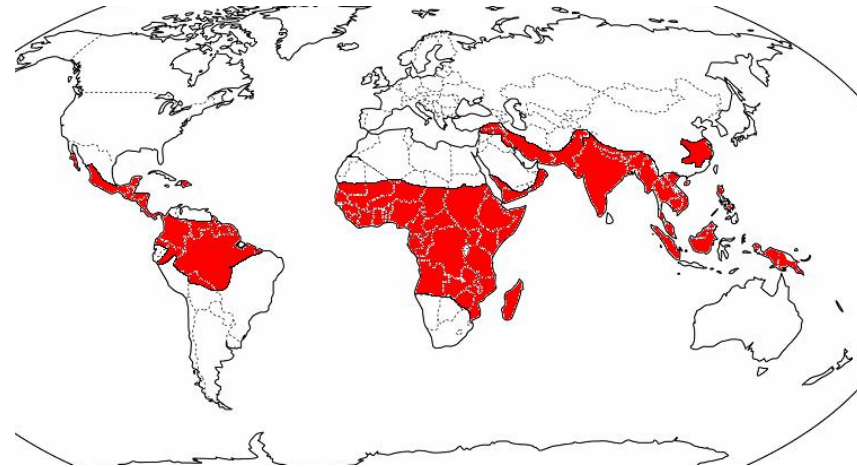
SOURCE: WHO

Relationship between Malaria and Poverty?

Poverty Areas(income: under \$2/day)

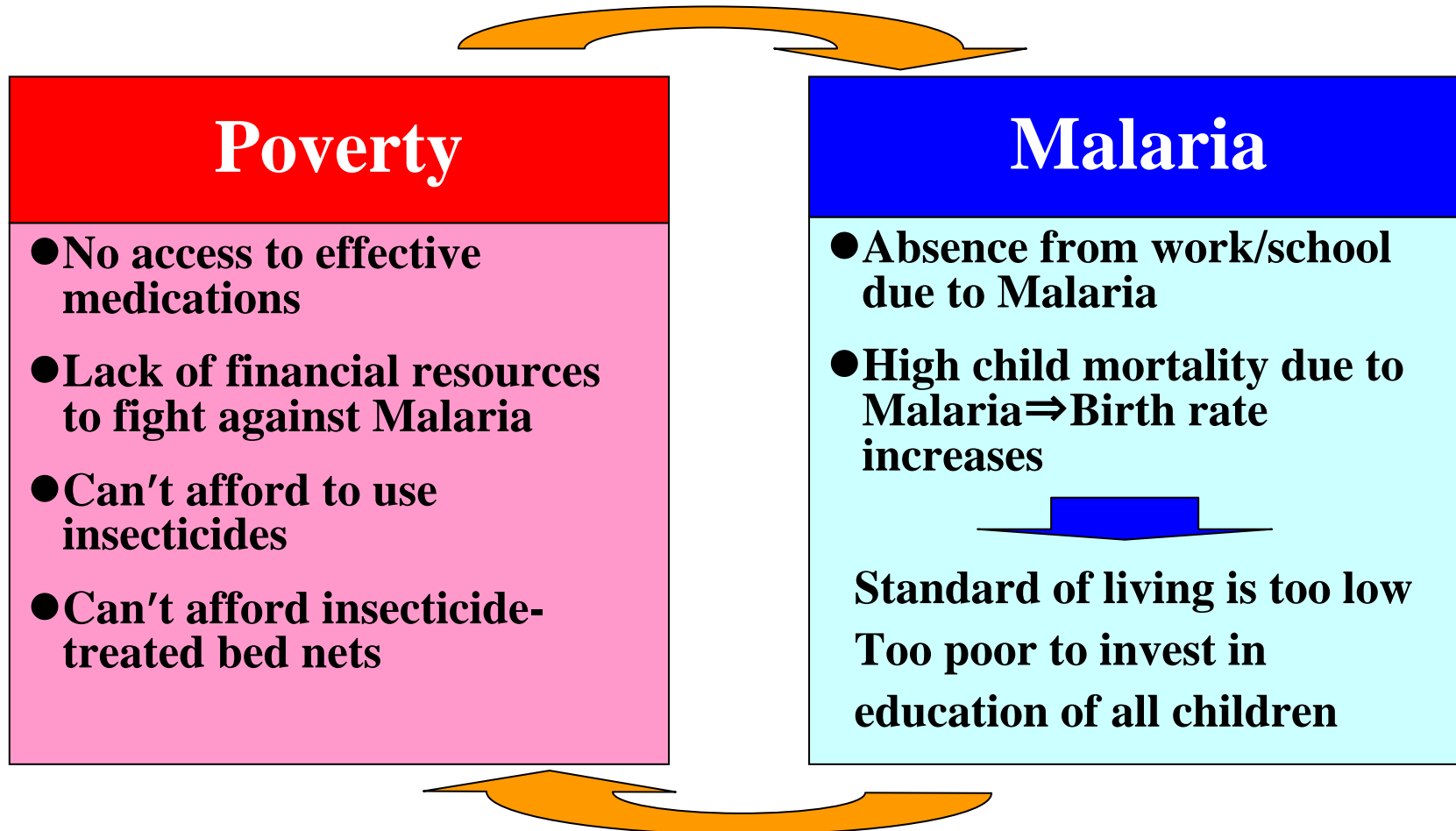


Malaria Risk Areas



Source: 「The End of Poverty」 by Jeffrey Sachs

Why Africa so much vulnerable to Malaria?



Economic loss caused by Malaria in Africa is estimated as

U\$12Billion (¥1,400Billion) as GDP



Roll Back Malaria Campaign

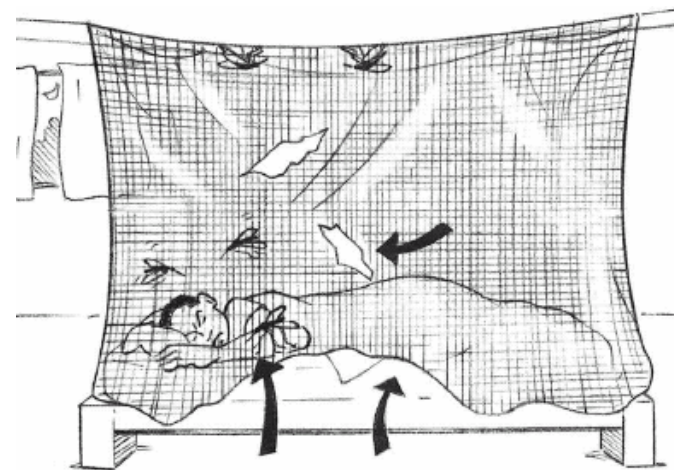
-WHO, UNICEF, World Bank, UNDP-
(Started in 1998)

Target: To reduce malaria caused mortality by 50 % by 2010

-Malaria control – Prevention by Olyset® Net

- Long lasting insecticidal net

Curative: ACT (Novartis)



WHO's Policy Changes

Originally planned to use the re-treatment of the nets with insecticides as means of increasing the awareness of the people.



The re-treatment rate was very low so it was considered difficult to scale-up.



Need for the nets not requiring re-treatment after washing.

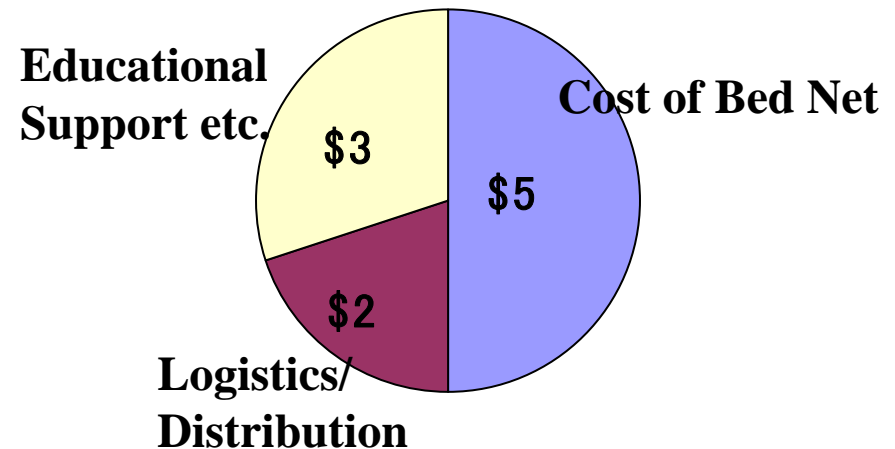


Olyset® Net - the First LLIN (Long Lasting Insecticidal Net) Approved by WHO (2001)

TIME for Kids (Nov. 06)



- Malaria kills 1 mio. people each year.
- A \$10 net can save 3 people.

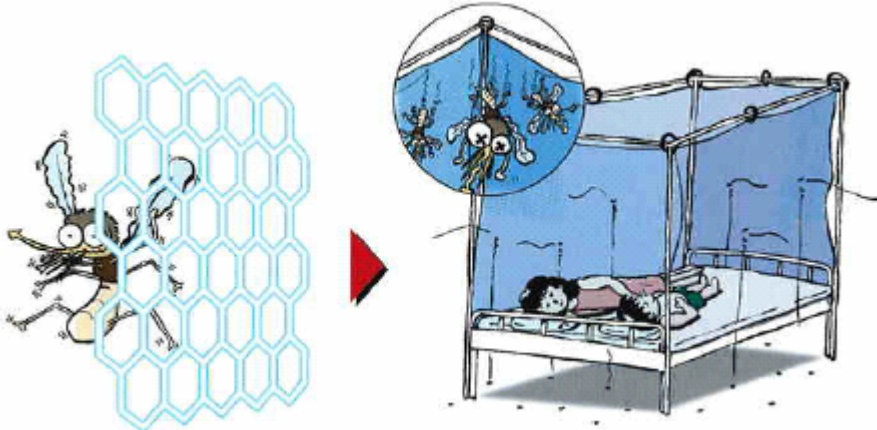


Contents

- I. Current Situations on Malaria Disease
- II. Olyset[®] Net / Long-Lasting Insecticidal Net
- III. Local Manufacture of Olyset[®] in Tanzania
- IV. Sumitomo Chemical' Support for Millennium Promise
- V. Sumitomo Chemical's Education Support Activities in Africa
- VI. Closing

Comparison between Olyset[®] net and Conventional mosquito net

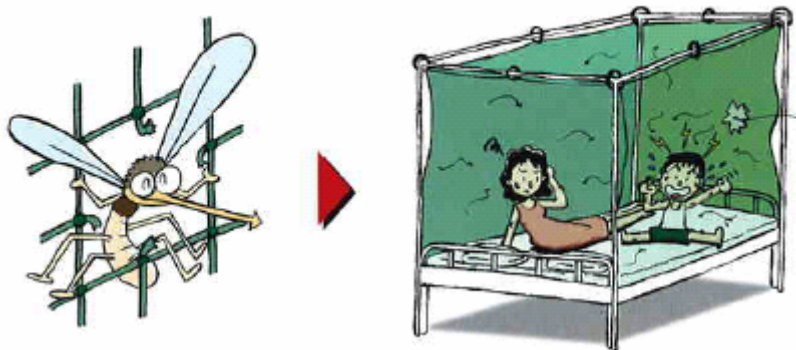
Olyset[®] Net = Long-Lasting Insecticide Net(LLIN)



The diagram for the Olyset net shows a close-up of a mosquito being blocked by a large, light blue hexagonal mesh. An arrow points to a bed with a blue net. A circular inset shows a mosquito on the net, with a skull and crossbones symbol indicating it is dead. The net is supported by a metal frame.

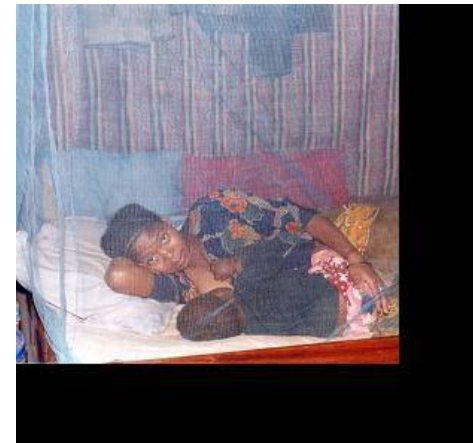
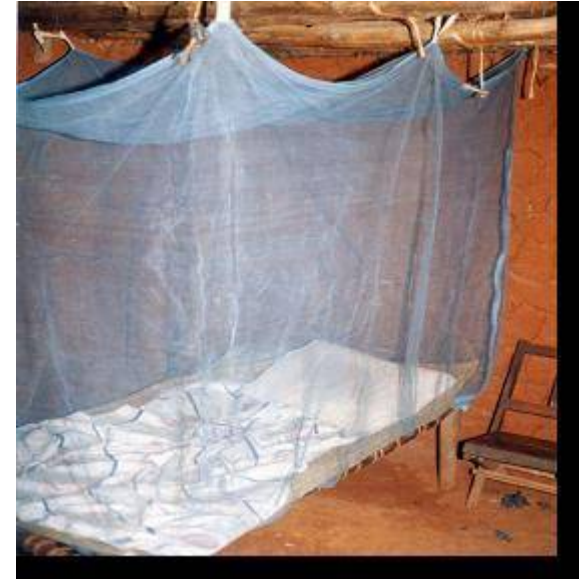
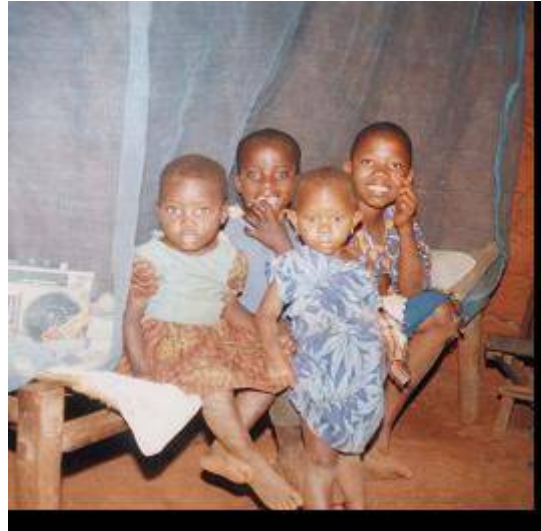
Polyethylene (thick fibre)
Tough – highly tear resistant
Wide mesh size- well-ventilated
5 year guarantee of efficacy

Conventional mosquito net



Polyester (thin fibre)
Only moderately tear resistant
Fine mesh size - poorly ventilated

Uses of Olyset[®] Net



Contents

- I. Current Situations on Malaria Disease
- II. Olyset[®] Net / Long-Lasting Insecticidal Net
- III. Local Manufacture of Olyset[®] in Tanzania
- IV. Sumitomo Chemical' Support for Millennium Promise
- V. Sumitomo Chemical's Education Support Activities in Africa
- VI. Closing

Why Local Manufacture in Africa?

Objectives

1. To save children in Africa, control mosquitoes and provide a better environment with Olyset® Nets.
2. To provide an opportunity for local economy and employment
→ Royalty-Free License of manufacturing technology and local manufacture in Tanzania

Sumitomo Chemical's Basic Principles – To make a social contribution as a private company.

- A part of CSR (Corporate Social Responsibility) activities
- **Sumitomo's business philosophy is always based on the "Contribution to the Public Benefit."**

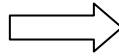
Technology License to Tanzania

- Licensed to: A to Z Textile Mills Ltd. (Arusha)
- Technology: Olyset® Net manufacturing technology
- Royalty-free license
- Local manufacture started in September 2003
- Current capacity: 4 mio. Nets/Year
- # of employees in Olyset production: Approx. 1,200
- Project partners :
WHO, UNICEF, ExxonMobil, PSI (NGO), Acumen Fund (NPO funded by Rockefeller Foundation etc.)

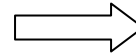
Manufacturing Process at Tanzania



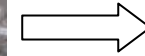
**Resin
Compound
containing
insecticide**



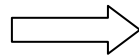
Extrusion of Fibre



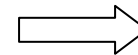
Winding of Fibre to Bobbins



Knitting



Stitching



Packing

A to Z Textile Mills Ltd.



NEW! Olyset[®] Net Manufacture J/V in Tanzania

**Demand Forecast of LLIN by WHO:
60-80 mio. Nets/Year**

Name: Vector Health International Ltd.

Shareholding: Sumitomo Chemical: 50%

Local (Owner of A to Z): 50%

JBIC (Japan Bank for Int'l Cooperation) Provision of Loan

•Place: Arusha (Tanzania)

•Capacity: 4 mio. Nets/Y

→Total Production Capa.

•Employees: Approx. 1,200

in Tanzania: 8 mio.nets/Y

•Production started in Jan. 2007

Contents

- I. Current Situations on Malaria Disease
- II. Olyset[®] Net / Long-Lasting Insecticidal Net
- III. Local Manufacture of Olyset[®] in Tanzania
- IV. Sumitomo Chemical' Support for Millennium Promise
- V. Sumitomo Chemical's Education Support Activities in Africa
- VI. Closing

Millennium Promise

- Millennium Promise
 - A NPO established in 2005 to achieve Millennium Development Goals (Chairman: Jeffrey Sachs)
 - Japanese Government also support Millennium Villages
- Activities
 - Millennium Villages – Integrated, life-saving interventions in agriculture, health, education etc. to end extreme rural poverty.
 - Quick win against Malaria – Provide LLIN/Medicines to Millennium Villages and surrounding areas
- Countries/Villages
 - 100 Villages across 10 African Countries (Ethiopia, Ghana, Kenya, Malawi, Mali, Nigeria, Rwanda, Senegal, Tanzania, and Uganda) in 5 years
- Sumitomo's Support
 - Donated 330K Olyset® Nets to reduce malaria in the villages

Preliminary Results from Sauri Village

- Place : Sauri Millennium Village (Kenya)
- Net Received in May 2005
- Preliminary Results (Q4 2006)
 - Significant decrease in the number of people who has Malaria parasites in the blood from 43% to 11%.
 - Number of cases of Malaria seen at the Sauri local clinic have fallen by 50%



Contents

- I. Current Situations on Malaria Disease
- II. Olyset[®] Net / Long-Lasting Insecticidal Net
- III. Local Manufacture of Olyset[®] in Tanzania
- IV. Sumitomo Chemical' Support for Millennium Promise
- V. Sumitomo Chemical's Education Support Activities in Africa
- VI. Closing

Sumitomo Chemical's Education Support Activities in Africa



- To build elementary school buildings and facilities (4 completed, 3 in progress)
- Other Sumitomo group companies also participate
- In cooperation with an NPO “Worldvision Japan”
- Also plan to provide Olyset® Nets.

Donation Ceremony of Elementary School in Tanzania



Contents

- I. Current Situations on Malaria Disease
- II. Olyset[®] Net / Long-Lasting Insecticidal Net
- III. Local Manufacture of Olyset[®] in Tanzania
- IV. Sumitomo Chemical' Support for Millennium Promise
- V. Sumitomo Chemical's Education Support Activities in Africa
- VI. Closing

Closing

- We are committed to the control of Malaria vector mosquitoes and the sufficient supply of our Olyset Nets to African countries.
- We are cooperating with global organizations in eradication of Malaria in Africa as a part of our CSR (Corporate Social Responsibility) programs.

Hoping that we can be of some help to end poverty in Africa.....



Olyset[®]

“Thank you”