Responding to Vector-borne Diseases in a "stove-piped" world

Integrated Vector Management

Michael Macdonald, Sc.D.
Malaria Advisor
US Agency for International Development

mmacdonald@usaid.gov

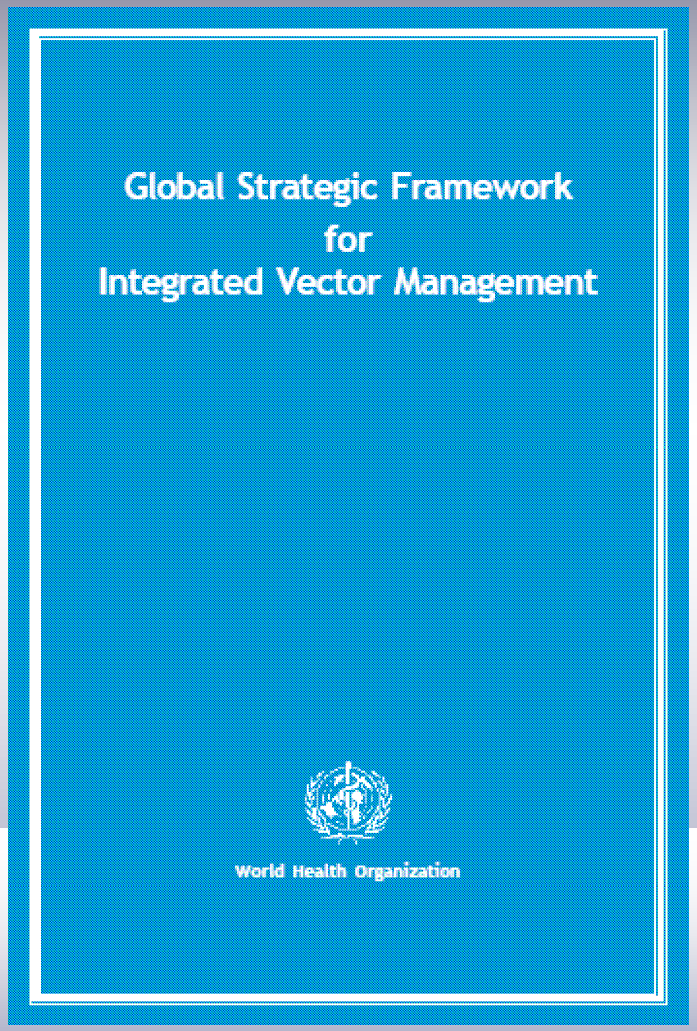
Integrated Vector Management

"a rational decision-making process for the optimal use of resources for vector control".

160.6m LLINs from Industry to SSA '04-08

19.8 m people protected by PMI IRS by end 2008

IVM: Five Key Elements:

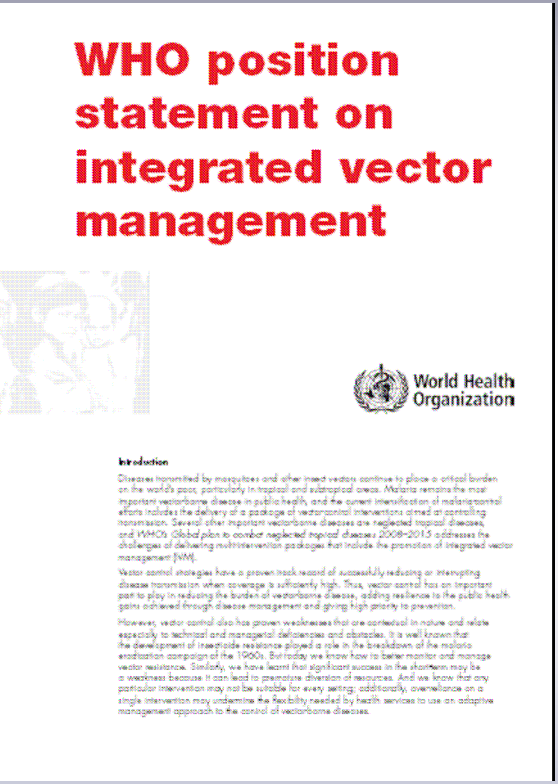


November 2004

- Advocacy, social mobilization and legislation
- Cross sector collaboration
- Integrated approach
- Evidence-based decision-making
- Capacity-building

IVM Global Development

May 2007



April 2008

WHO Consultation on Development of a Global Action Plan for Integrated Vector Management (IVM) 1-3 December 2008

December 2008

Cross-sector Collaboration

- Consideration of all options for collaboration *within and between public and private sectors;*
- Focus on local capacity for planning and decision-making;
- Strengthening *channels of communication* among policy-makers, vector-borne disease control programme managers and other IVM partners.

Integrated approach

- Ensure rational use of available resources through application of *a multi-disease control approach.*
- Integration of *non-chemical and chemical vector control* methods,
- Integrated with other disease control measures

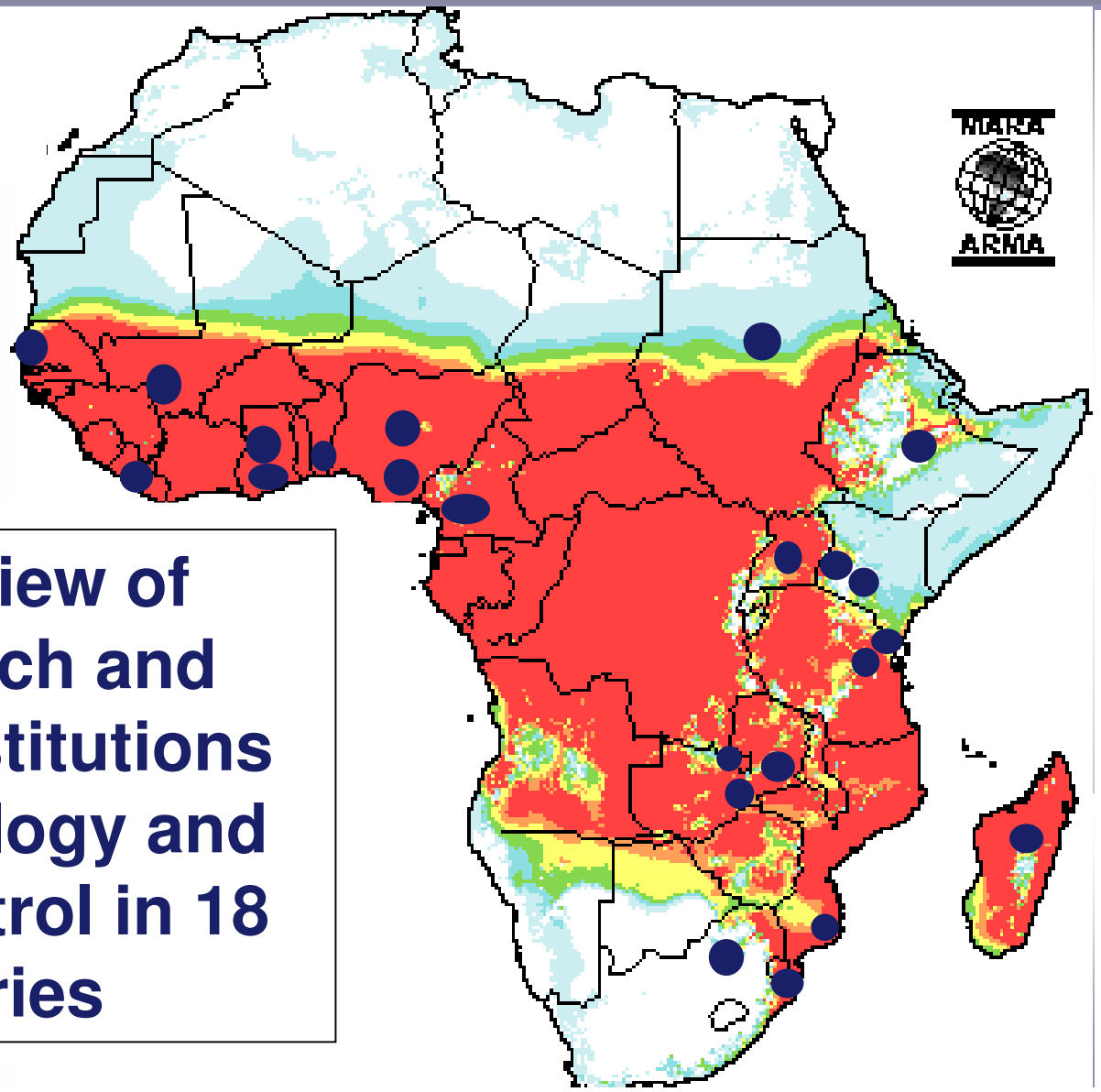
Capacity building

- Development of essential *physical infrastructure,*

- *Financial resources* and *adequate human resources* at national and local level to manage IVM programmes based on a situation analysis.

IVM Institutional Foundation

Red = malaria endemic areas



2008 Review of 29 Research and Training Institutions for Entomology and Vector Control in 18 Countries

Why IVM matters:

For every complex problem there is an answer that is clear, simple, and wrong."

HL Menken

- **Graduate, consolidate and maintain gains**
- **Deploy new tools**
- **Insecticide resistance management**
- **Safe use of pesticides**
- **Link with Agriculture IPM**
- **Climate Change**

IVM Conclusion

- No people no program
- Mechanism and Institutional foundation exists to build essential cadre of "public health entomologists" and vector control specialists in Africa
- Support for capacity-building and career structures is possible