IRS Work stream
Overview 2010-2011
Roll Back Malaria Vector Control Working Group
Introduction

• IRS Policy and practice
• IRS Work stream objectives and outputs
• IRS WS consultation with stakeholder and partners
• IRS Work stream functioning
• IRS WS sub groups-5
• IRS WS challenges
• Planning for IRS WS plenary meetings and working groups. Wed and Thursday
## IRS Policy & Practice

<table>
<thead>
<tr>
<th>Policy</th>
<th>Practice</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of malaria endemic countries</td>
<td>106</td>
</tr>
<tr>
<td>IRS is recommended by malaria control program</td>
<td>64</td>
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<tr>
<td>IRS is the primary vector control intervention</td>
<td>51</td>
</tr>
<tr>
<td>IRS is used for prevention and control of epidemics</td>
<td>56</td>
</tr>
<tr>
<td>IRS and ITNs used together for malaria control in at least some areas</td>
<td>66</td>
</tr>
<tr>
<td>DDT is used for IRS</td>
<td>19</td>
</tr>
<tr>
<td>Insecticide resistance monitoring is undertaken</td>
<td>74</td>
</tr>
</tbody>
</table>

Source: malaria endemic countries
Proportion of population at risk protected by IRS

Source: malaria endemic countries
2010 Objectives and Outputs

• Broad based consultation with partners and stakeholders on interest and key issues
• Subgroups & Networks
• Link with other RBM working groups-PSM
• Outputs for 2010

• IRS-WS facilitation and catalysing for communication among RBM partners for joint action on IRS.
2010 IRS WS Consultation

- Areas of interest
- Key issues on IRS
- Working of the IRS WS

- IRS and vector control focal points from NMCP
- Industry
- Malaria NGOs
- Researchers

- Professional and organizational interest in IRS
IRS areas of interest of stakeholders

- IRS Policy
- IRS advocacy
- IRS insecticides
- IRS Spray equipment,
- IRS Geographic reconnaissance, IRS planning, estimates and proposal development,
- IRS evidence,
- IRS M&E, Indicators and reporting,
- IRS financing
- IRS capacity building
- IRS training,
- IRS program supervision& evaluation
IRS Advocacy and Financing

- Political advocacy at ministerial and presidential level
- Policy level advocacy for long-term local and national government/public sector commitment and financing for sustainability.
- Popularization of IRS among donors as a cost-effective tool.
- Complimentary private sector corporation increased financing for IRS.
- Myth or reality that IRS is expensive and not sustainable
- IRS documentation of success and best practices
IRS Capacity

- Technical capacity for quality IRS implementation
- Need for increased technical capacity
- Country capacity development plan
- National and regional network of IRS experts.
- Pool of consultants to support IRS
- Training on how to be consultant in IRS.
IRS Training

• IRS training of trainers
• Training of team leaders.
• Training of spray operators.
• Training for proper application of insecticides.
• Orientation of policy makers
IRS Insecticides

- Streamlined testing/evaluation of new insecticide products
- Mapping and demographics to provide adequate quantification/forecasts of insecticide requirements.
- Insecticide rotation
- Insecticide resistance and resistance management plan
- Need for longer lasting insecticides for IRS
- Need for new formulations
- Toxicology may be ok but smell and discolouring are sometimes important
- Availability of quality insecticides
- Selection and procurement based on highest international standards
- Insecticide choice
- Insecticide pricing
- Alternative to pyrethroids
- IRS is not DDT
- DDT is not IRS
- Need for stock control and expiry of insecticides
IRS Equipment

• Selection and procurement based on highest international standards
• Need for clear WHOPES specification for hand compression pumps
• Problems with procurement of agricultural pumps
• Mapping and demographics to provide adequate quantification of equipment requirements;
• Need for good stock control of equipment and maintenance program.
IRS Planning & Management

• The health system through which IRS is run needs to be strong and efficient.
• IRS requires good planning with objectives
• Control of costing and financing to get maximum benefit from the investment
• Logistical planning – Mapping and demographics to provide forecasts of insecticide/equipment requirements;
IRS Evidence and Efficacy

- Need for strong evidence that IRS adds to current malaria control strategies in both efficacy and cost effectiveness.

- Intervention with some longevity in relation to resistance development.

- Feasible intervention that can be scaled up in areas where it is most needed, which are often also resource poor settings.

- Need for robust evidence as published evidence on IRS is inadequate.

- IRS Programs need to ensure that they are adequately reported in a manner than can provide robust evidence?

- that very few papers actually exist that really prove the efficacy of IRS, despite many years of use and many many many publications.
IRS baseline, M&E and Reporting

- Pre-intervention surveys such as malaria parasite prevalence,
- Monitoring of disease incidence
- KABP surveys on community attitudes, support and acceptability.
- Entomological surveys and monitoring
- Development of resistance
- Changes in species distribution
- Behavioural changes such as peak time of biting and indoor/outdoor preference.
- Documenting for evidence based IRS
- Spray quality
- Spray coverage
IRS supervision and evaluations

- Stronger supervision of IRS campaigns
- Joint evaluation of performance of some ongoing IRS programs.
Technical and Management

Vector Control Cycle

Evaluation → Update Geographic Reconnaissance → Estimation → Procurement

Reviewing, Documenting & Reporting → Selecting & Mapping → Targeting & Planning

Monitoring Vector Densities & Spraying Quality (Bio-assays), Supervision, Supporting & Reporting

ACTION

Training → Organisation & Logistics → Planning & Preparation

Spray Teams & Supervisors → Teams, Transport, Supplies, Systems

Tendering, Quality Control → Timing, & Programme of spraying

MALARIA
IRS Work stream functioning

- Establish clear leadership team and structure aligned with purpose and objectives
- Launch meeting with the whole of the group followed by a biannual meeting to review progress and update sub work streams
- Subgroups to tackle specific topics supported by teleconferences/email/website
- Have a clear project leader / subgroup leader
- Avoid talk shops set achievable goals and strive to achieve them
- Functioning should be low-impact in terms of time and simple!
- Web site which allows for collaborative input to documents, events etc
- Email discussions
- Teleconferences every three months.
- Newsletter
- Web site
- Six monthly or annual meetings. At global level or regional level or part of other meetings
- Annual conference
- Data base of IRS experts
- Use of RBM subregional meetings
IRS sub work groups

- IRS Evidence and Reporting - Rajendra Maharaj
- IRS Procurement and supply management - Rabindra Abeyasinghe
- IRS training and country capacity building - Manuel Lluberas
- IRS supervision, reviews, evaluation - John Govere
- IRS Advocacy and financing - Tren/Moonasar
2010 Initial Outputs

- Starting the work IRS WS subgroup
- IRS Global/Regional Training centre-Limpopo, South Africa.
- Key issues on IRS PSM and link with RBM PSM
- Global and regional IRS bi-annual conference.
- IRS country data base and annual IRS country report.
- IRS program review Gambia and Eritrea
- IRS documentation and case studies. LSDI and PMI
Challenges

• No funding not one dollar, Euro or Yuan or rupee

• Part time of very committed and busy individuals

• Communication on email and telephone

• USAID, CDC and PMI building an IRS coalition and proactively leveraging more funding for scaling IRS up from MOH, GF, WB etc

• Balancing individual, organizational and partnership needs and demands

• Need for IRS champions from Academic, research private, public sectors.
Special Thanks

• Konstantina Boutsuka and STI
• Mike Macdonald
• Jo Lines
• Jan Van Erps RBM-PSM
IRS Group session.
Wed 9th / Thursday 10th

- **Plenary morning**. Country presentations on IRS progress and performance for scaling up IRS for control and elimination and prevention of re-introduction. *(Uganda, Ghana, Sudan, Sri Lanka, South Africa)*

- **Small group work with plenary and discussion.** Review/discussion on four IRS sub-group, key issues work outputs for 2010 and priorities and plan for 2011.

- **Thursday sub-group chairs finalize the work plans and micro projects on products**, regards objectives, strategic development areas, activities, responsibility/driver, total funds required, available funding, gap in funding and possible source of funds.
IRS sub work groups

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