Scale-up of IRS Operations
Sub-Saharan PMI countries

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**Background**

**PMI-supported IRS Operations**
- IRS1 (2006 – 2009)
- IRS2 (2009 – 2014)

**Implementing Partners**
- Abt Associates
- Chemonics
- RTI International

**Stakeholders**
- Host governments, including Ministries of Health and National Malaria Control Programs
- In-country stakeholders, including academic institutions
- Communities
Timely and efficient procurement and supply chain system: specific commodities need to be available at the right time and quantities to provide coverage for the entire targeted area and for spray rounds to be launched and completed at the optimal time.

- International versus local procurements
- Transport, warehousing, storage
- Standardization needed, e.g. supply chain management, warehouse and inventory management SOPs
- Establishing bulk procurement mechanisms reduces labor costs, procurement processing time, shipping costs, and sometimes insecticide costs
- QA/QC of procured commodities
Operational Program Support

- Establishment of country partnership with MOHs / NMCPs and other in-country stakeholders
- Pre-IRS operations planning meetings
- Involvement of district and community structures
- Community mobilization: >21,000 mobilizers trained annually
- Logistic and financial support for operations
Supplemental Environmental Assessments (SEA) completed in every country where IRS operations were carried out


Infrastructure: secure warehousing / storage, insecticide evaporation tanks / soak pits, washing areas, PPE

Training of spray operators and other IRS personnel

Environmental compliance inspection pre-, mid- and post operations

Insecticide disposal and incineration

Soil sample and crop monitoring for DDT residue
Monitoring and Evaluation

- IRS operations staffing structure: team leaders and supervisors
- Checklists and daily data entry
- Data verification
- QA/QC of insecticide application: wall bioassays and insecticide detection kits
- Entomological monitoring of vector ecology, insecticide susceptibility / resistance, insecticide residual efficacy
Economies of Scale

Cost per person protected (US$) vs. Household structures sprayed

The graph illustrates the decreasing cost per person protected as the number of household structures sprayed increases, indicating economies of scale.
President’s Malaria Initiative