Three parts of a greater whole

Indoor residual spraying is one of our best tools in the fight towards malaria elimination. The spraying kills mosquitoes and helps keep the disease from spreading. It’s not a cheap process, though. The insecticides and massive staffing required to make these campaigns effective are extremely costly, running many millions of dollars every year. In short, it’s not the sort of thing you want to do inefficiently.

We need to ensure that the right insecticides are sprayed in the right amounts in the right households. That’s why Akros created mSpray, a suite of tools that puts IRS campaigns into efficiency overdrive. We need to stop thinking about the aspects of IRS as separate entities and recognize that, to be effective, we must do three things really well: Enumeration, Targeting, and Spraying.

How it Works

Enumerate
We need to know where the household structures are before we can accurately assess things like population density. What’s more, when the spray teams do go out, they need to be able to find all of the structures in a given area. mSpray uses satellite imagery to enumerate structures about 20 times more efficiently than on-the-ground enumeration.

Target
Our team of Entomologists and infectious disease experts have created tools to be sure we’re using the right insecticides in the areas where they will have the greatest impact. By taking into account factors like water and land use, population density and elevation, we end up with an interpolated surface picture that shows us an area’s risk of transmission. We can make an educated decision and know from the beginning of the spray season how much insecticide we will need, how much it will cost, and have an expected impact.

Spray
When it comes to the spraying itself, we have created the most efficient, streamlined, powerful tool for leading spray teams to the right spray locations and tracking that the spraying actually occurs. Keep reading to learn more about the mSpray tool.
The powerful new mSpray tool
Our programmers have created a tool that integrates Google’s mapping technology with intelligent overlays, putting the data in the hands of everyone, helping to drive the virtuous data cycle forward. No longer do we need to send spray teams out to the far corners of the country with instructions, hoping the spraying is happening in the right places. Now we can send them with cellular-enabled tablets with maps showing them where they are and where the next house is they need to find and spray. And thanks to GPS location tagging, we can now see each house they visited and sprayed as they file their reports, right from the field. And all of the data comes back in real-time.

The mSpray tool puts this powerful piece of technology in the hands of the workers on the ground, providing accurate guidance and feedback loops that help drive the virtuous data cycle.

Implement mSpray in your area
Our team of implementation experts are ready to help you realize a new level of efficiency with your spray campaigns. Send us an e-mail at info@akros.com with a little information about your specific needs, and we will get back to you quickly with answers and ideas.

Akros strengthens national health systems in developing countries.
We use sophisticated tools to collect essential health data and then teach our counterparts how to use that data effectively. We believe that if the right systems and tools are deployed in the right places at the right time, many lives can be saved and the quality of those lives raised.