UNIVERSAL COVERAGE SENEGAL 2010-2013



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A Unique Approach

Peace Corps Volunteers were the first to spark interest in universal coverage through a series of pilot distributions in the south of the country. Their successes and lessons learned inspired a commitment from the National Malaria Control Program to cover every sleeping space in Senegal with a treated net.



The Rains Are Coming

NetWorks was the lead for the net distributions with the National Malaria Control Program and partners in Senegal. With little time to prepare before the rains, staff rushed to finalize operational kick-off events, home visits, guidelines and tools in preparation. Lessons learned would inform and improve sleep under their new nets year- coverage Phase III mass subsequent phases.

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PHASE II

Influencing Behavioral Norms A coalition of partners Congested urban areas and created a communications to support UC efforts. Radio journalists, communicators, demonstrations and print media encouraged communities to round.

PHASE III

Urban Settings

isolated fishing communities posed unique challenges for counting sleeping spaces. Working with thousands of traditional religious schools and communities so that nobody was missed was critical to the success of the universal distributions.

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New Challenges

How do you count nomadic Phase V was marked by nurses' populations on the move? When border communities straddle two countries should both sides receive nets? Should you count the sleeping spaces of university students living on campus or hope they were counted in their home communities? What do you do about military camps?

Obstacles & Solutions

Conflict Areas & Strikes

strikes in the north and what is popularly referred to as the "Red Zone" in the Cassamance area. Through advocacy initiatives and partnerships with groups like the IFRC and Peace Corps, over 180,000 households received the nets they needed on time, as planned.

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2 UNIVERSAL COVERAGE SENEG

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comprehensive campaign traditional caravans,

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Flexibity & Adaptation



ROUTINE



Passing the Baton

All 14 Regions Covered

final UC mass distributions in Thies and Dakar with financial support from the Global Fund. By using the same to have access to nets and guidelines, tools, and "Trois high levels of net ownership Toutes" campaign branding are sustained? Establishing that had been successfully community and health facilityused in the rest of the country, based distribution channels the distributions were rapidly are critical to maintaining planned and executed. good

Continuous Distribution

Staying Protected

IntraHealth completed the Mass distributions don't come along every day. What should governments do to ensure that growing populations continue access and use.



ACRONYMS

CFA	"Communauté Financière Africaine" (currency for francophone Africa)
AQ	frequently asked questions
FRC	International Federation of the Red Cross
TN	Insecticide-Treated Nets
HU·CCP	Johns Hopkins University Center for Communication Programs
LIN	long-lasting insecticide-treated net
ИМСР	National Malaria Control Program
PCV	Peace Corps Volunteers
MI	President's Malaria Initiative
JC	universal coverage
JSAID	U.S. Agency for International Development
VHO	World Health Organization



INTRODUCTION

universal coverage (UC) of longlasting insecticide-treated nets prevention which (LLINs) unfolded in Senegal, emphasis from safeguarding with each phase presenting a only the most vulnerable unique set of challenges and opportunities. It was created coverage, defined by WHO as to ensure that Senegal's the use of insecticide-treated experiences and lessons learned are broadly disseminated within the global community. Senegal's From 2003 to 2009, the experience with national mass distribution campaigns is a Program (NMCP) focused public health success story about partnerships, local commitment and a common resolve to reduce the country's distribution to the general malaria burden. We hope that other countries will be inspired based organizations was also to adapt the model to their supported between 2006 and own particular circumstances 2007, and 791,000 insecticide and will have equal success in achieving universal coverage.

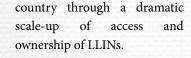
support from the U.S. Agency for International Development/ President's Malaria Initiative, by the Peace Corps, in 2010 played a leadership role in the National Malaria Control guiding the phase-by-phase Program (NMCP) decided rollout of the UC campaigns to embark on an ambitious with partners in Senegal.

his report is a **Background:** In 2007, the compendium of stories World Health Organization **L** about how the rollout of (WHO) made a bold position statement for malaria shifted universal populations to nets by all household members.

Malaria Control National net distributions on children under five and pregnant women. Subsidized routine population through community treated nets (ITN) provided by the Global Fund, UNICEF and the World Bank were NetWorks, with financial distributed. Consistent with changes in global policy and based on a strategy pioneered plan that would ensure universal coverage of LLINs in communities throughout the

BACKGROUND

NetWorks & Peace Corps



The Malaria Indicator Survey, conducted between 2008 and 2009 in Senegal, found that only 24.4% of the general population had slept under any treated net, 23% under an ITN, and 21.9% under an LLIN the previous night. Use by the general population had increased to 34%, which was net use set by the NMCP. By early 2013, when distribution had been completed in 12 of the 14 regions, nationally representative survey data household showed that ownership of at least one ITN surpassed 85% in regions where UC had been completed (north: 93%, center: 88%, and south: 86%). Year round use by the general population was 61% in the north, 48% in the center, the UC campaign had been completed almost three years previously. Use by the general population during rainy season surpassed 70% in areas covered by UC.

Organization: An important first step in the UC rollout of LLINs was the creation of coordinating committees at the national, district and local levels, which provided oversight and ensured that all activities were accomplished as planned. Four subcommittees with specific roles were likewise set up: technical and operations, communications and social mobilization, monitoring and evaluation and still far below the 80% goal for logistics. Following macroand microplanning at the national, regional, and district levels, a census was completed by community volunteers, called relais, who went from house to house to count the number of regular sleeping spaces, people living in the household, children under the age of 5, and the number of nets in good condition. The head of the household received a coupon indicating the date and 40% in the south, where and location of the local distribution point and later, this coupon was exchanged for the number of nets the household was to receive. This allocation was determined by using the this period, 1,175,434 existing information collected by relais and verified by a community found and 4,070,986 LLINs

committee. One week following the distribution, relais made home visits to ensure that nets were properly hung and also to reinforce messages about proper net care and repair. The International with support from relais also used this opportunity to stress the importance of net the Phase VI mass distribution use by the whole family, all year of LLINs in the last two regions long and every night.

The first mass distributions (UC Phase I) led by NetWorks took place in the southern belt of Senegal, including the regions of Kedougou, Kolda, Sedhiou and Tambacounda, areas known to have the highest levels of malaria transmission. After an assessment period, the phase-by-phase rollout of the mass distributions continued under NetWorks beginning with Kaolack and Kaffrine regions (UC Phase II), followed by Fatick and Diourbel regions (UC Phase III), St. Louis and Matam regions (UC Phase IV) and finally Louga and Ziguinchor regions (UC Phase V). This process took just over 25 months to complete. During nets in good condition were

were distributed, to 8,880,256 individuals-an average of about one net per 1.69 people, which is in line with WHO guidelines. In 2013, IntraHealth the Global Fund Round 10 led of Dakar and Thies.





UC rollout in Senegal, NetWorks and Peace Corps have worked side by side. Both organizations rely on personnel who live and work with the communities they serve, and are particularly well placed to translate national policy into local action. NetWorks' local facilitators, who were based in the regions throughout tools in their communities, each UC phase, were key to drove home key messages via

ince the beginning of carried out according to plan out regular home visits with and PCVs. Their ability to and to resolving bottlenecks at counterparts. Their integration the field level. Their presence into local communities and language skills helped people ensured that day-to-day activities for the distributions to understand and adopt new and the transfer of skills to social norms of regular net use, the local district staff were care and repair. consistent and streamlined. Field support and supervision Likewise, PCVs working side by side with the local facilitators trips to resolve problems, answer field-tested communication questions and clarify roles and responsibilities were among the joint activities between ensuring that operations were community radio, and carried NetWorks' local facilitators

"When spider webs unite they can tie up a lion." Traditional West African saying

> work together throughout the process and keep people informed about community distributions, home visits and special communication events made the UC work especially dynamic and fulfilling for everyone involved.

TO COVER A NATION

Universal coverage (UC) is a term used here to describe the process of distributing free long-lasting insecticide-treated nets (LLINs) to the general population. The National Malaria Control Program's (NMCP's) goal of 80 percent LLIN coverage nationwide is an attempt to achieve the critical mass necessary to drastically cut malaria transmission. Though the overall vision of UC has been agreed upon globally, how it is defined can vary from country to country ranging from the use of one net per every two persons, to one net per every two persons within a household, or a flat number of nets per household, such as two nets per household.

Senegal was the first country to define universal coverage as one net for every sleeping space—an approach that generates high levels of ownership. Existing nets were counted as part of the sleeping space census and factored into the number of nets needed for each household. The approach of ensuring one net for every sleeping space was highly successful in Senegal and may help other countries to effectively cover their populations with nets.



THE PILOT

Peace Corps Volunteers were instrumental in getting universal coverage off to a good start in Senegal. The initial experience involved making sure that every sleeping space in one health district had an insecticide treated net. The distribution was later successfully replicated in a second, larger district. This set in motion what would become the universal coverage strategy for the country.

rior to 2009, few countries in Africa had attempted large scale distribution campaigns aiming to cover 80% of their estimated population, based on the Roll Back Malaria recommendation of coverage. Rwanda, Zambia and Eritrea launched UC campaigns based on average family size calculations and distributed of nets according to a minimum number per family, with impressive results. Two pilot campaigns in Senegal proved that not just large scale distribution, but universal coverage, defined as one net per habitual sleeping space, was achievable.

In the fall of 2009, Peace Corps partnered with the local health officials, Net Life, the Against Malaria Foundation, and Malaria No More to conduct the first pilot distribution in Saraya, a hard-to-reach area with a high malaria burden. In preparation for the pilot campaign, Peace Corps Volunteers (PCVs) spearheaded the planning and tried a new strategy, which set the stage for covering the nation with LLINs. They set out to accomplish the impressive goal of covering every sleeping space in a single health district with an insecticide-treated net.



collaboration with the local Malaria Initiative (PMI) adviser was health district staff, the pilot and distribution relied heavily on adviser traveled to Velingara support and participation of the PCVs who collectively provided to learn first-hand about the communities involved, which over 2,000 hours of support to approach. This event together the project. Building on this with the demonstrated rapid experience, in late 2009 and into 2010 the Peace Corps, NMCP, Malaria No More, Tostan and World Vision organized a in every district of the country. and wrote on the nets in second pilot in the much larger health district of Velingara. They The idea for determining a of the recipient, the name attempted to determine whether household's net need based on of the village/neighborhood the distribution methodology could be effectively managed without intensive PCV support than estimating the need for enhancing personal pride in in every community. The role of PCVs was scaled back to one of project leadership, central technical guidance and others, they would conduct a supported by the community, logistical and communication detailed household census. They that influenced the way Senegal support in areas that had found that if they counted every came to define UC, drawing the PCVs. After hearing about the habitual sleeping space, their attention of important partners. successful distribution, the distributions would achieve In 2009, Peace Corps Senegal Though it was done in close NMCP coordinator, President's better coverage. This census began advocating for this

NetWorks' technical coverage and results achieved In addition, on the day of convinced the NMCP that the distribution, PCVs removed approach should be replicated nets from their packaging

sleeping spaces came about and the date of distribution.

time-consuming and possible only with the explicit was helped by reinforcing the message of malaria prevention. indelible marker the name

"The first step

was to determine

what constituted

a "sleeping space"

and how many

They found that

if they counted

every habitual

sleeping space,

would achieve

better coverage."

their distributions

there were....

when PCVs decided that rather This approach was aimed at nets, which would be inaccurate net ownership and reducing and lead to insufficient coverage the prospect of net resale. It in some areas and oversupply in was this PCV-driven approach,



"Community involvement makes UC possible."

new approach of distributing nets based on sleeping spaces with important national and international partners. With the success of the pilots in Saraya and Velingara, the national policy moved to one of UC based on the sleeping space census methodology that Peace Corps and partners had

piloted. Lessons learned from Community involvement the pilot that would need to be makes UC possible. Without considered during planning for a strong relationship between the national scale-up included: the census workers (relais or PCVs) and community leaders or health officials, • Net procurement based on population figures is it would be impossible to necessary to estimate need: gather information from counting every habitual every home.

- sleeping space assures more even coverage locally.
- Sleeping spaces are the most basic unit of measure in a net distribution. How you define that space matters-whether it is a bed, mattress or a simple mat on the floor.

THE RAINS

NMCP he officially decided on Senegal's UC distribution strategy one net for every sleeping space-in March 2010. From that moment on, there was no time to spare as the rainy season was imminent in the southern belt of the country where malaria prevalence is the highest. Soon many communities would be completely cut off from public services and roads by the swelling rivers, making delivery of the nets impossible. The national coordinating committee, composed of the NMCP and partners, had to create the guidelines and tools for the technical logistics, operations, communications and monitoring and evaluation. UC was a new strategy for the country and very different from previous net distribution campaigns.

It was important that the new strategy and accompanying distribution modalities be very clear for all stakeholders.

Information from the 2009 mass campaign was used to estimate the net need for the first four regions. The NMCP rapidly circulated official letters advising the regions and districts about the UC operations to and prepare appropriate warehousing for the nets. Following a competitive bidding process, a transportation firm was identified and the trucks started rolling out to the regions. Nets purchased by the Islamic Development Bank and the the Senegal River Basin Development Authority were used for the Phase I mass distributions.

Meanwhile, NetWorks national the and coordinating committee were rapidly preparing the overarching plans for the mass distributions including the preparation of detailed budgets, training materials, checklists, communication a strategy and orientation sessions for regional and district level staff. NetWorks engaged four local facilitators who had extensive experience working with communities and nets as regional field agents. They also hired three field accountants to ensure that local funds were appropriately dispersed and accounted for. In late May 2010, the teams joined Peace Corps and partners working in the Kedougou region for the first UC orientations and start-up trainings.



LOGISTICS UC PHASEI

Phase I of Senegal's UC campaign began when the rains had just started. To cover every sleeping space, government officials, civil society and partners public and private, set out to prove they could achieve what many thought was impossible. It often required crossing nearly impassable roads, navigating through flash floods and over submerged bridges, and working outside cell phone range.

NETS READY FOR DELIVERY USAID

Hundreds of thousands of nets just waiting to be delivered

distributions began, certain areas were already being hit hard by the rains. In some regions the health services team called upon the military to help deliver nets to areas where the container trucks had been stopped by deep, muddy rivers and rushing water. In Tambacounda, the military was obliged to cancel a mission to deliver nets to the community of Bohe Balladji after being marooned in the sludge for two days and with no end in sight for the rains. The nets were successfully delivered are large firms working in the

elivery: When the rains had subsided and the community became accessible.



Mining Camps: Gold mining is an important industry in Kedougou and although there four months later, once the area, artisanal mining draws



Mining camps and swelling populations

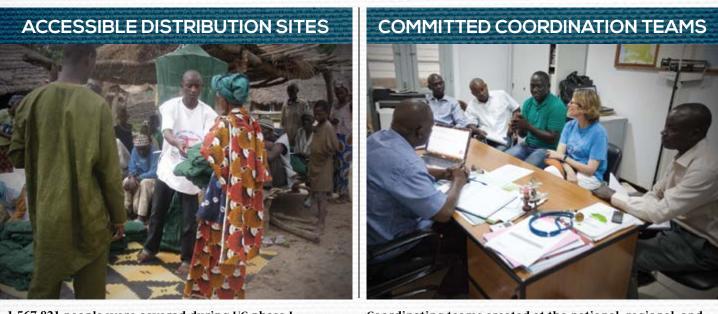
countries including Mali, Guinea, Sierra Leone, Burkina Faso, Ghana and The Gambia. areas. Often when a person strikes gold, word travels fast and in Supply: Knowing the true an area from a week to several space count, it could not be was that many families were

The final kilometer to the distribution site fortune seekers from numerous guaranteed that all sleeping

CROSSINGS

spaces had been covered for the populations residing in these

a matter of days a community number of nets needed to can swell from a couple dozen cover all sleeping spaces in families to thousands of the first four regions was a individuals who may stay in major challenge because the original estimates were based months and then leave. These on population data. Because a populations are referred to as targeted campaign for children "virtual communities" posing under 5 had taken place the important challenges for the previous year, the presence of district health teams tasked with these nets was also factored into the final allocation of bed nets. the regional calculations. What Without an accurate sleeping was soon discovered, however,



1,567,821 people were covered during UC phase I

either not declaring these nets communities. Although almost or the relais were not counting all households received at these nets if they were reported least one or more nets, not all by households to have been sleeping spaces were necessarily washed with bleach or dried covered. in the sun, thereby reducing the insecticide. The teams Appreciation: were not adequately prepared with people on the street were to deal with these issues and a common communications subsequently net quantities approach during the mass were short in some areas. distributions. Different regions addressed the issue of net shortages in various ways. In Sedhiou, for example, the region itself readjusted the number of nets allocated

individual households

so that the total number of

available nets was shared across

to

Coordinating teams created at the national, regional, and local levels

Interviews



Reporter: "You have just received (8) nets valued at more than 20.000 CFA. What do you think about that?"

Sedhiou resident: "They are worth at least ten times that much to me. My family will use these nets and we will not get sick this year." -Personal testimony: Saliou Ndiaye

UNIVERSAL COVERAGE PROCESS CRITICAL STEPS

Creation of national coordinating committee

Development of national guidelines and tools; macro planning and budget preparation

> Orientation and micro-planning with regions and districts

Creation of regional, district and community coordination committees

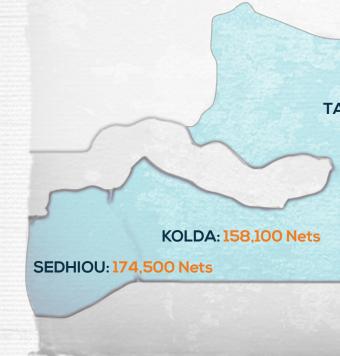
Sleeping space census followed by community validation

Marking and bundling of nets, mass distributions at locally designated sites

> Home visits one week after the distribution

District evaluations with stakeholders from multiple levels

Phase I: Regional Coverage 621,481 nets distributed 93.8% sleeping spaces covered



POPULATION: 1,567,821 SLEEPING SPACES: 858,484 NETS DISTRIBUTED: 621,4 NUMBER OF LOCAL ACTORS INVOLVED: 3,651 183,584 EXISTING NETS FOUND IN GOOD CONDITION OPERATIONAL COST OF DISTRIBUTION: \$430,342 CFA 215,171,046



6

5

Communication:

2

3

4

- Community radio
- Traditional communicators
- Print media

CROSS-CUTTING

ELEMENTS

Logistics:

Security

 Warehousing Transportation

- Home visits
- Demonstrations
- Parades and launches
- T-shirts and caps
- UC daily journals

Supervision and capacity building:

Focal points • Peer supervisions between regions • National and regional supervision visits

8

Terms of reference and check lists •Reports



TAMBACOUNDA: 243,224 Nets

KEDOUGOU: 45,675 Nets

*IntraHealth

*ChildFund

Secours Islamique France

*Peace Corps

PARTNER CONTRIBUTIONS AS A PERCENTAGE OF TOTAL **OPERATIONAL BUDGET**

CFA 500 - \$1US

* Financial support provided by PMI

IMPROVEMENTS UC PHASE II

Unlike UC Phase I, where nearly all operational costs for the mass distributions were assumed by NetWorks, Phase II welcomed the involvement of other partners, including IntraHealth, ChildFund, the Senegal Red Cross, Caritas, Peace Corps and Secours Islamique France. Communities were also more involved than in Phase I, providing financial and inkind contributions to activities.



Prerecorded radio spots in multiple languages ensured message consistency about net use, care and repair on community radio stations nationwide

part of the year, the UC strategy was assessed and improved based on the results of an in-depth process review of Phase I with the Malaria Consortium. One of the most important improvements was the establishment of community coordinating committees that would "validate" local census numbers and calculate household net allocation, thus transferring this responsibility from the relais to the community. This helped limit fraud, as committee members had a good idea of how many sleeping spaces and nets their neighbors had and could spot

Ttrategy: During the first numbers that didn't make Community Participation: the analysis of key results, sense. Once the community committee validated the census, the figures were passed up to the district coordinating committee, who reviewed each health post's request in relation to the initial estimates and the number of nets available. If serious and legitimate gaps were seen, the district could request more nets from the NMCP, which happened in several cases. In addition a more to local distribution sites. structured approach for home visits was adopted, including the use of counseling cards and checklists.

Beginning with this phase, community engagement in the planning and rollout of the distributions was improved. Community members contributed personal time to serve on the coordinating committees, provided meals for their *relais* and some hired donkey carts or fishing boats to LLINs from the area health post

of district-level evaluations was an important new step added to the UC cycle at this point. Evaluations facilitated over time.

Communities actively engaged at every level

costs and lessons learned from the distributions in an open community forum organized by the district and attended by stakeholders from multiple levels and sectors. This initiative was consistently well received since it brought closure to an intensive period of work, allowed frank discussions about ensure the timely delivery of the challenges and achievements and contributed to maintaining an accurate database that was made accessible to everyone Evaluation: The organization involved. It also helped foster local commitment to ensure that nets were used on a regular basis and properly cared for



Home visits were accompanied by visual aids that facilitated guided conversations about net hanging, care, and use

Supervision:

with Phase II. Partners from the PMI team, traveled to the field on a regular basis to supervise key UC steps such as the sleeping space census, validation of the census results, community distributions, home visits and the final district evaluations. This was especially important given the many adjustments and improvements since Phase I.

Communication: Beginning with Phase II, Senegal's rallying

Regular, cry about the importance TOUTE L'ANNÉE structured supervisions were of using mosquito nets to likewise implemented starting prevent malaria was a simple slogan and logo. Appearing the national level, including on T-shirts, caps and smocks, and coming from the mouths of community health workers, volunteers, town mayors, This saying, called the "Trois traditional communicators, Toutes," or the "Three Alls," students, musicians, artists reminds people that to end the and radio journalists, a single cycle of malaria transmission, everyone-not only pregnant distribution, communication message was spread across the country: Mosquito nets must be women and young childrenused by: "Toute la famille, Toute must sleep under a mosquito l'annee et Toutes les nuits parce net every night, all year long. that had been put into place que les moustiques sont toujours The communication activities their areas. Whether a message la!" (The whole family, all year conveyed the message that long and every night because if Senegalese families, given mosquitoes are always there!). access to nets, adopt this critical behavior, the spread of malaria

Ongoing supervision was an important feature of Phase II



in Senegal could be drastically reduced. The challenge was to persuade people to use their mosquito nets consistently and correctly, an objective tackled through community mobilization and locally tailored communication initiatives, hallmarks of the "Trois Toutes" national plan. Before, during and after the actual mass sub-committees in each region planned and executed a broad range of activities tailored to was heard on the radio or from their village chief, from a traditional healer or from their school-aged child, the goal was

LOCAL FACILITATORS & DAILY JOURNALS



special feature of UC Phases I-V was NetWorks' activities; logistics management for nets, coupons and supplies; specially trained to ensure that the distribution operations ran and documentation. smoothly and who managed and solved complex issues as they arose.

with the regional and district medical teams on all aspects of the UC field operations, ensuring that activities were carried out each district. Compiled by NetWorks and broadly circulated via according to the national plan. Their essential duties included email on a bi-weekly basis, the journals allowed interested readers the oversight and coordination of training and supervision around the globe special insight into the rollout of UC in Senegal.

placement of experienced local facilitators at the district communication activities that involved community launches, level. Local facilitators were individuals who were parades and marches, community radio, home visits and reporting

An especially important part of the local facilitators' work was the preparation of daily journals. The journals, which proved to be an For a period of 45 to 60 days, these facilitators worked closely invaluable management tool for the UC teams, documented the day-by-day unfolding of the UC mass distribution activities for

to surround every beneficiary with the "Trois Toutes."

overarching communications strategy, which featured the net use, care and repair (to cards during almost 299,000 ensure consistency) but allowed all the districts to design and carry out locally tailored communication plans, taking into account their specific cultural and environmental

and parade events, interactive radio programs and spots, The slogan was at the center of an home visits, health talks and demonstrations drove home key messages. Relais used NMCP's key messages about newly designed counseling and recorded. Within weeks level. Because of the emphasis home visits, and thousands of frequently asked questions (FAQ) booklets were distributed through schools. During a hands-on six-day radio production workshop in 2010, contexts. A combination of participants representing the in Pulaar, Bambara, Malinke, messages.

community launches, market

created ten radio spots in Wolof two more materials production and French featuring the "Trois Toutes" and other important on radio and print media and messages, which were pretested by participants in communities building capacity at the district after the workshop, four of on training and working closely NetWorks' local facilitators with the districts and regions, a traveled to the regions to work with district health education officers, radio animators and PCVs to translate, pre-test and produce the same radio spots

NMCP, the regions and partners Mandingue and Serere. In 2012 workshops were organized followed by a similar process for number of radio stations have continued to broadcast the UC spots free of charge during peak listening hours, thus ensuring optimal listener coverage of key

POPULATION: 1,581,640 SLEEPING SPACES: 893,153 NETS DISTRIBUTED: 667,383 **80% HUNG 1 WEEK AFTER DISTRIBU NUMBER OF LOCAL ACTORS INVOLVED: 7,461 170,157 EXISTING NETS FOUND IN GOOD CONDITION** OPERATIONAL COST OF DISTRIBUTION: \$446,247 CFA 223,123,815



*NetWorks 43.2%

*Red Cross Senegal 22.1%

*Caritas 9%

KAOLAK: 398.764 Nets

*ChildFund 7.8%

KAFFRINE: 268,619 Nets

Phase II: Regional Coverage 667,383 nets distributed 93.8% sleeping spaces covered



Secours Islamique France 5% CFA 500 - \$1US

*Peace Corps 0.8%

PARTNER CONTRIBUTIONS AS A PERCENTAGE OF TOTAL Community Participation 5.3% OPERATIONAL BUDGET

* Financial support provided by PMI

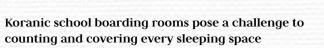
FLEXIBILITY **& ADAPTATION UC PHASE III**

The number of nets distributed in Senegal's UC Phase III was nearly double that of the first two phases combined. The Diourbel region is home to Touba, whose population is second only to Dakar.



Women's groups volunteered to monitor net use and care

lexible Phase III required a flexible approach that would accommodate varied communities. Although initially daunting, with its densely populated urban centers in Diourbel and sparsely Fatick, these regions turned to make the mass distribution out to be less complicated than work. anticipated. Due to the strong influence of religious leaders The Fatick region, which is in Touba, Senegal's largest comprised of hundreds of islets religious center with over 1 and islands, presented program



Logistics: million inhabitants, hundreds of distribution points around the city distributed hundreds of thousands of nets without any major difficulties. In-kind contributions by communities, such as meals and net transportation, demonstrated settled fishing communities in a strong sense of commitment

managers with other logistical challenges. Known for its fishing communities, the challenges encountered by UC operatives were resolved by utilizing their structures, including canoes for transportation.

Boats made it possible to access island communities

BOATS

Two years later, the NetWorks team returned to the area and spoke with a health post official.

"When the responsibility for the UC net distribution was assumed by the local population, who were trained, educated and directly involved in both receiving and distributing the nets, we saw that the results were very encouraging."

- Abdourahmane Ndiave, Head of Darou Tanzil Health Post. Touba District

ENGAGED COMMUNITIES AND SOCIAL MOBILIZATION

Specialized training and tools were developed to ensure that messages about optimal net use, care and repair were able to reach diverse audiences.

ouba, in the Diourbel region, was one of the first districts to NetWorks also trained the daara instructors on the importance of benefit from "special initiative" funding for communication regular net use as the best way to prevent malaria. The "Trois Toutes" **L** activities through the NetWorks project. These counseling cards featuring key UC messages were translated from communications initiatives were conceptualized, implemented and French into Wolofol (the Wolof language written in Arabic script), documented by the districts. Teams of Bajenou Gox (aunties for so that messages could be easily incorporated into lessons. Many healthier communities) were at the core of a special initiative for daara leaders noted that this was the first health communication Touba, which involved training almost 300 women on the basics campaign that had specifically addressed their needs and in their of net use and care, including washing, drying and repair. With "language of work." this training they were prepared to work closely with students and instructors from the daaras (Koranic boarding schools), so that nets were used regularly and well cared for. Communities contributed soap, thread and meals for the Volunteers.





Despite distributing nets to hundreds of *daaras*, most of the challenges in working with these institutions were found after the distribution. Without the proper follow-up, nets were not always used correctly. Many people needed instruction on care and repair strategies to ensure their nets lasted as long as possible. Follow-up visits were conducted by NetWorks' local facilitators to ensure that both students and teachers understood how to use the nets. The partnership with the *Bajenou Gox* was critical to both educating the students and teachers, but also to ensuring that nets were cared for. By working closely together as a team, religious leaders, health staff, Volunteers and other community members made the intervention at *daaras* a success.



STUDENTS All these boys slept under a net the previous night

HANGING SOLUTIONS Finding innovative ways to hang nets



RELIGIOUS INSTRUCTORS Working with health staff to keep students healthy



COMMUNITY HELPERS Volunteers work with *daaras* to repair torn nets



"This is one of the Koranic boarding schools (of 200 boys) where we distributed LLINs. The result was that rather than receiving 10 boys from daaras with malaria every day, we have a maximum of one case weekly. I'm so happy that now, two years later, I come back to the daara and see that children continue to sleep under their nets." -Abdourahmane Ndiaye, Head of Darou Tanzil Health Post, Touba District (top right)



Sometimes the only way to reach communities was with small fishing boats.



FATICK: 340,449 Nets

DIOURBEL: 922,135 Nets

POPULATION: 2,467,007 SLEEPING SPACES: 1,475,276 NETS DISTRIBUTED: 1,262,584 86% HUNG 1 WEEK A NUMBER OF LOCAL ACTORS INVOLVED:6,337 211,852 EXISTING NETS FOUND IN GOOD CONDITION **OPERATIONAL COST OF DISTRIBUTION: \$668,313 CFA 334,156,776**



*NetWorks 66.8%

*ChildFund Consortium 10.8%

Community

Contribution 8.6%

*IntraHealth 5.9%

*Caritas 5.8% Secours Islamique France1.8% *Peace Corps 0.3%

PARTNER CONTRIBUTIONS AS A PERCENTAGE OF TOTAL **OPERATIONAL BUDGET**

CFA 500 - \$1US

* Financial support provided by PMI





to their homes. The LLIN school. Champions program involved

n Mbacke, NetWorks booklets, students learned prizes for correct answers. regions and has launched the engaged students, called key information about net use Community members and idea of youth Volunteers for "LLIN Champions," to and care and repair, which local health committees were health that are tasked with bring messages about good they were quizzed on during enthusiastic about the program promoting good net use, care net use, care and repair back contests organized by each and contributed prizes in and repair behaviors in their the way of pens, notebooks communities. and other school supplies to health and school staff in Students who earned the most encourage participation. The areas throughout the Diourbel points became designated program has since become region. Using the UC FAQ LLIN Champions and received popular in other schools and

CHAMPIONS **GETTING YOUTH EXCITED ABOUT NETS** AND HOW TO PREVENT MALARIA

REACHING THE NOMADS

stone's throw from the edge of Paoskoto village in Senegal's interior, mud huts sit dotted travel in search of water and among a field of old peanut plants.

A small gathering of nomadic live out in the open bush where Fulani have settled here briefly to trade with local farmers and find pasture for their cattle. In this culture, milk and meat are exchanged for grain and mobile phone credit.

Inside their domed huts, metal-frame beds and wellstowed kitchenware give the impression of settlement. But by the time it takes to bring these people are always on the move and thus are some of they are almost too far gone to the hardest to reach in the UC be saved." campaigns.

Haji Dia and his wife, Feincoura, have six children, ranging from toddler to teenager. Mr. Dia feels he has been successful in life.

"I have 150 cows now," he says, a vast network of community proudly. But despite his family's success, he admits that malaria has always been a serious problem.

"Before [these nets came] we didn't use any at all and the mosquitoes were really bothering us! Our children Dia's. were constantly falling ill with malaria. This was very difficult Dr. Mamadou Doucouré, for us."

The Dia family and three other in UC activities for nomads Fulani families travel together. living in his area. He says

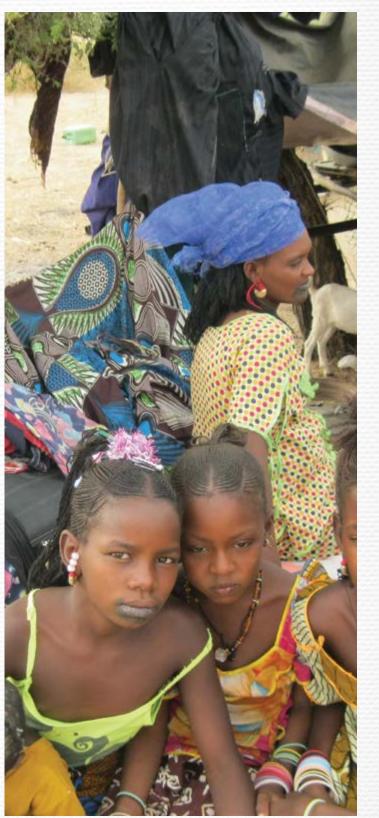
During the rainy season they stay in their village. When pastures run dry at home, they food for their livestock.

Mr. Dia says, "We nomads often there are many mosquitoes. We have nothing to protect us. The mosquitoes really attack us." According to him, several members of their group have died from malaria in the past few years.

"Often we camp in remote areas, far from hospitals. So someone to a health center,

He says he first heard about the net distribution campaign over the radio. Aside from his battered mobile phone, his radio is the only other sign of modernity in the camp. NetWorks and Peace Corps use radio stations across the country to make sure they reach the most remote corners of Senegal with the "Trois Toutes" message. Radio is often the best, and sometimes the only, means of communicating with mobile communities like

Chief Medical Officer of Nioro District, has been very involved



part of the job. Dr. Doucouré and we are protected. For us believes that the success of this UC campaign is largely due to the strong partnership between - Story by Fid Thompson Senegal's Ministry of Health and NetWorks, especially at the local level where communication initiatives reinforce best use and care and repair practices.

Inside Mr. Dia's round hut, three metal-frame beds circle an open sandy space in the center. Each bed has a rectangular white net, its four corners tied to branches poking down from the ceiling, the bulk of the net wrapped neatly over itself.

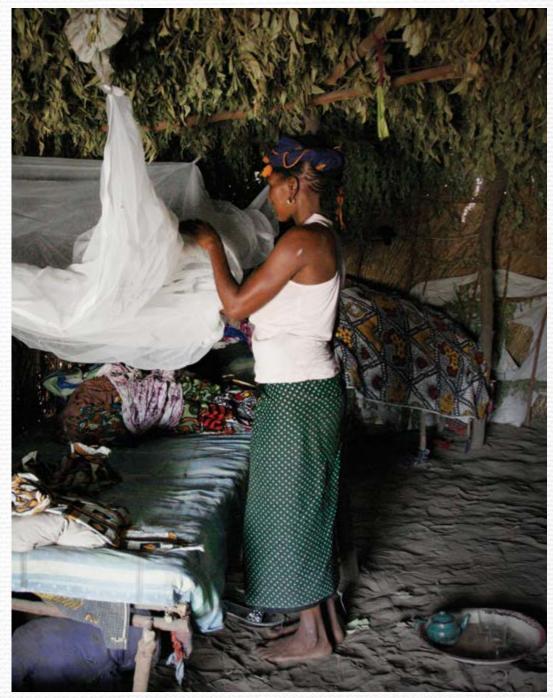
It seems he got the message. He smiles and hugs his youngest daughter.

"With these nets," he says, "we are much better protected. The mosquitoes cannot get through the nets and neither can the flies. Our children are protected and so are we."

As the sun sets on the camp, a herd of long-horned cows saunter into the clearing from a day's munching.

"As nomads, we are often on the move to find pastures for our cows," says Mr. Dia. "We don't carry many possessions. We can travel far into the bush where there are no houses or huts, where there is nothing, and put our mattresses on the ground to sleep. Now we hang

communication is an essential the mosquito net from a tree these nets are very important."



'With these nets," he says, "we are much better protected. The mosquitoes cannot get through the nets and neither can the flies. Our children are protected and so are we."

TRADITION & DIVERSITY PHASE IV

Phase IV was marked by developing creative ways to spread the "Trois Toutes" message with communities that had very different cultures and lifestyles.





Chief Medical Officer, Saint Louis

All households were visited and sleeping spaces counted

ifestyles in the Saint Louis and Matam regions of Senegal are vastly different. From the cool, seaside colonial city of Saint Louis, to the hot, expansive desert plains of Matam, a number of divergent lifestyles exist. Fishing villages, seasonal laborers, university students, military camps, border communities and nomadic populations have varying sleeping preferences.

In 2011, NetWorks worked with local health officials to organize a mass communication caravan in the city of Saint Louis, targeting urban residents. Key information for this population included the "Trois Toutes" core messages as well as tips on how regular net use visits festive and fun.

money through fewer medical expenses. The Saint Louis caravan involved hundreds of individuals including local leaders and health staff, radio DJs, traditional communicators and drummers, relais, and rollerblading youth who were all focused on driving home key messages about nets.

During the 2012 mass campaigns, Matam organized surprise evening visits to nomadic communities to see whether nets had been hung. Those with good compliance were "awarded" with prizes such as well as congratulatory radio announcements making the

could help families to save Health workers in Matam were During Phase IV, peer-toaccustomed to going from vaccinations and wanted to do the same with the distribution challenged the region to behalf of the national level. think differently about how to Supervisors were selected based organize their mass distribution to ensure that operations would be more cost and time efficient. As was done in other regions, their areas. This work, which following the household census was monitored by the NMCP and validation, the population was called to a common be very popular as it created their coupons for nets rather than the health team going from as buckets, soap and T-shirts hamlet to hamlet which would have added important costs to the campaign in terms of fuel, daily allowances and time.

Caravan messengers

peer supervision visits were hamlet to hamlet to provide introduced whereby senior basic health services like health staff from bordering regions supervised key mass distribution activities and of the LLINs. NetWorks provide technical support on on their successful experience conducting and evaluating LLIN mass distributions in with NetWorks, proved to distribution point to exchange camaraderie between regions and promoted local ownership of the program.



ounting sleeping spaces, and

people, or visitors be counted as part busy schedules without keeping of a household? How should them waiting all day? existing nets in urban boarding schools and military households brought up a camps be managed? Beyond the It was quickly discovered that number of questions: How do challenges of the census and the evenings and weekends were you conduct a census if people net tally, there is the additional the best times to do the census are away at work when the issue of crowd management at and reach people at home. health workers and *relais* make distribution sites: How do you To minimize crowds, it was their rounds? Should tenants distribute nets to people with recommended that no more



Conducting mass distributions in urban areas can be a complex process. Critical to its success is solid planning and quality supervision.

than 1,000 nets be given out at a time at any distribution point. SAINT LOUIS: 334,522 Nets

MATAM: 201,281 Nets

Phase IV Regional Coverage: 535,803 nets distributed 88.8% of sleeping spaces covered

POPULATION: 1,620,933 **SLEEPING SPACES:** 843,045 **NETS DISTRIBUTED:** 535,803 86% HUNG 1 WEEK AFTER DISTRIBUTION NUMBER OF LOCAL ACTORS INVOLVED: 5,802 213,194 EXISTING NETS FOUND IN GOOD CONDITION OPERATIONAL COST OF DISTRIBUTION: \$536,564 CFA 268,282,128



*NetWorks 73%

Red Cross Senegal 7%

MACEPA 8%

Community Contribution 6%

UNICEF 5%

PARTNER CONTRIBUTIONS AS A PERCENTAGE OF TOTAL OPERATIONAL BUDGET

CFA 500 - \$1US

* Financial support provided by PMI

SAME NET: DIFFERENT OPTIONS

Several months following the UC mass distributions, NetWorks returned to Saint Louis in order to work with the district health management team to train the *relais* on how to do simple net transformations so that the rectangular nets distributed during the mass distributions could accommodate different needs and preferences. the mattress was proposed. For those who preferred conical nets, they learned how to reinforce the top so that it could be hung from a central point. Following the trainings, the *relais* conducted hundreds of home visits to promote options for customizing nets to accommodate different style preferences and housing, from large urban homes at the heart of the city to small huts in fishing communities.

For those who liked the rectangular net shape but found it too short, adding fabric to the bottom to make it easier to tuck under



OBSTACLES & SOLUTIONS UC PHASE V

The Louga and Ziguinchor districts were implemented nearly two years after UC began, and once again a sense of urgency was felt. Funding from Global Fund Round 10 had been delayed, and the rains were imminent.



Nomadic populations

istributions in Louga and Ziguinchor were carried out roughly two years after the original Phase I distributions, and due to the imminent rains, once again there was a sense of urgency. Also, in a major change during planning for UC Phase V, the national coordinating committee made the critical decision to no longer take into account existing nets when Louga is a region characterized determining net allocations per by wide plains, deep sand and household. Since three years had passed since the 2009 mass distribution, logically those nets were no longer viable and needed to be replaced. Although

Nets for every household

nets had already been stocked and stored in the regions based on population estimates calculated the previous year, this change significantly increased the number of nets required for the Phase V campaigns. Fortunately, sufficient quantities of PMI nets were available in Dakar to accommodate the quantities needed.

sparse populations. In recent years, borders for certain zones were redefined to create new health districts and management teams. Some zones, however,

All existing nets replaced

particularly those with a strong union presence and a history of able to use these relationships strikes by nurses, were initially to ensure the smooth rollout reluctant to recognize the new of activities. Another feature of districts, and were therefore the UC activities in Ziguinchor preventing UC planning from going forward. Frequent of Diola-speaking facilitators advocacy visits were made by from the region who were able NetWorks and the NMCP in order to discuss problems and communities and guide the UC find solutions.

The International Committee of and supervised by two senior the Red Cross was an important NetWorks staff based in the partner in Ziguinchor, a region that has been in varying levels of conflict for more than 20 years. It is known as a neutral entity and has good relationships with

all actors in the conflict, and was was the hiring and training to communicate directly with operations for their areas. The local facilitators were trained town of Ziguinchor.

Ensure good communication

LOUGA: 613.664 Nets

ZIGUINCHOR: 370.061 Nets

POPULATION: 1,642,855 SLEEPING SPACES: 987,265 NETS DISTRIBUTED: 983,725 87% HUNG 1 WEEK A NUMBER OF LOCAL ACTORS INVOLVED: 3,902 279,036 EXISTING NETS FOUND AND REPLACED **OPERATIONAL COST OF DISTRIBUTION: \$601,107 CFA 300,553,614**



*Networks 85.5% Community Contribution 6.7% IFRC 6.6%

Phase V Regional Coverage: 983,725 nets distributed 99.6% of sleeping spaces covered



KOICA 0.3%

*Peace Corps 0.3%

Senegal Red Cross 0.3%

KOICA 0.3%

PARTNER CONTRIBUTIONS AS A PERCENTAGE OF TOTAL **OPERATIONAL BUDGET**

CFA 500 - \$1US

* Financial support provided by PMI

Net Transformation

The following are a series of net transformation possibilities, including using a circular frame, bucket lid or simply adding additional fabric to the bottom of one's net.



CIRCULAR FRAME Locate the center of a rectangular net and place a circular frame over it.



ATTACH & REINFORCE Attach the frame using string or heavy thread.



BUCKET LID The lid to a bucket can be used if no circular frame can be found.



NET SKIRT Adding fabric to the bottom of the net can add length and reduce the wear and tear caused by tucking.





Dr. Bakary Sambou

Dr. Bakary Sambou is the Malaria adviser to the World Health Organization in Senegal and a pioneer in the country's fight against malaria.

vou written about UC, had What do think of universal not yet explained how it impact in Senegal? strategy was introduced,

amount of skepticism the key targets, as they and doubt that people are the most vulnerable had in the beginning and in most need of about the feasibility protection. However, and relevance of UC. once it was understood However, at an important that UC still covered meeting attended by a these populations, as well WHO emissary from as everyone else, Senegal Geneva in February Peace Corps 2010, Volunteers described their experiences doing UC campaigns in the south to a large group NetWorks and other of stakeholders. Their partners, carried out a accounts confirmed that the process was adaptable 12 regions where UC and feasible.

Since NetWorks took the lead on the UC mass distributions, they have proved that this is the best strategy for distributing nets, as it respects both equity and the real needs of the population. As I have mentioned, in the beginning no one mass distributions were believed in the approach. carried out three years Even WHO and Roll ago. Back Malaria, who had

coverage and its could be done. Before the about universal need to be replaced. coverage? pregnant women and I recall the huge children under 5 were First, it's important to experiences document the process as definitely help in the you go along. Senegal's planning of documentation of the distributions, including UC rollout is incredibly identifying ways to thorough, and we have streamline costs. seen many successes. Preparing ourselves for Documentation was encouraged to move important to ensure that coverage in Senegal forward and try it. everyone knows about is necessary and this the strengths and the documentation is a NMCP. The in challenges involved in critical part of that collaboration with carrying out such an process. enormous program.

The next step is to spectacular job in the analyze what was done: which of these challenges was first implemented; were real bottlenecks? this legacy will continue Based on our knowledge, under IntraHealth, who what can we do in the will continue the strategy future so that we do an in Thies and Dakar. Not even better job? This only will they cover strategy won't stop with a Thies and Dakar, but they will also do followsingle mass distribution; up mass distributions in the UC activities will the pioneering regions continue through 2016 for UC where the first and the NMCP needs to reflect on how best to do that, particularly in the regions where the first distributions

IMPRESSIONS **OF UNIVERSAL COVERAGE**

share information after three years LLINs

How can we better were done in 2010, since The documentation and recollection of should future is the future of universal

> "What people need to understand is what we gained in social and health benefits outweigh the money spent on universal coverage."

PASSING THE BATON UC PHASE VI

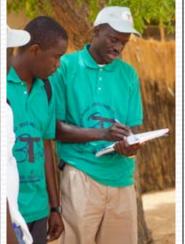
While NetWorks orchestrated the UC distributions in 12 of the country's 14 regions with the NMCP, IntraHealth led the distributions in Thies and Dakar with Global Fund support. Technical guidelines, tools, and communication materials used for the earlier distributions were employed and once the nets were ready, operations moved full speed ahead.



Sharing resources to ensure continuity

fter leading implementation on LUC Phases I through V, responsibility for the rollout of Phase VI operations was passed from NetWorks to IntraHealth International. With funding secured through the Global Fund, and working hand in hand with the NMCP, the mass distributions for the successfully completed.

To ensure with the previous phases, NetWorks worked closely with



FIELDWORK

Accounting for almost 684,000 households

and materials, including technical guidelines, checklists, communication materials and templates for the household surveys. Additionally, technical staff from the NetWorks office participated in regional planning sessions for both Thies and Dakar where they were able to share experiences and lessons learned from regions of Thies and Dakar were earlier distributions. Several of the local facilitators who had worked short term for continuity NetWorks in the regions were beginning with Kedougou and also hired by IntraHealth to work with the district health distributions is coming from IntraHealth to share resources management teams due to their the Global Fund and planning

The long awaited nets arrive

DISTRIBUTION

With the completion of the UC national focus for preserving Phase VI campaign in Thies and Dakar, the entire country evolved to include health is now covered with nets. facility, However, the work is not done. and private sector models so Because the first UC campaigns that households have easy were completed in 2010 before and affordable access to nets any alternative channels for accessing nets had been put in place, a second round of mass campaigns have been started Kolda. Support for these mass

Sleeping soundly under the comfort of the net

PROTECTED

experience and on-the-ground and management of field knowledge of the distributions. operations is being ensured by IntraHealth. At the same time, universal coverage has now community-based, through a range of continuous distribution channels.

Phase VI Regional Coverage: 2,803,138 nets distributed 97.6% of sleeping spaces covered

DAKAR: 1.697.290 Nets **THIES: 1,105,848 Nets**

POPULATION: 5,315,027 SLEEPING SPACES: 2,991,270 NETS DISTRIBUTED: 2,803,138 NUMBER OF LOCAL ACTORS INVOLVED: 13,362 **117,611 EXISTING NETS FOUND IN GOOD CONDI OPERATIONAL COST OF DISTRIBUTION: \$1,375,557 CFA 687,778,989**



*IntraHealth 94.2% Health Committees 2.4%

NGOs 1.2%

Community

Contribution 0.3%

PARTNER CONTRIBUTIONS AS A PERCENTAGE OF TOTAL **OPERATIONAL BUDGET**

CFA 500 - \$1US

* Financial support provided by Global Fund Round 10

CONTINUOUS DISTRIBUTION

Continuous distribution channels are a way to help maintain universal coverage levels



irths, deaths, marriages, visitors and shifting family dynamics can change the number of household sleeping spaces and subsequently the number of to the next. In addition, even under the best conditions, out. While the UC campaigns were successful in getting large numbers of nets into communities over a relatively short period of time, mass events. Because of this, it is women during antenatal care that these channels will be

important that nets are available to communities on a continuous basis so that those who want or need new nets have access and to ensure that the high levels of net coverage achieved through In addition, community-based subsidized nets through the LLINs needed from one year the mass distributions are and school-based distribution private sector. Together with maintained.

> the NMCP and NetWorks established a system of based

visits and subsidized nets (500 refined and scaled up over the CFA, equal to about \$1US) are next year by the NMCP. In available to all others seeking addition, a social marketing health services.

channels were piloted and ongoing communication and assessed in two regions, Louga nets eventually become worn Recognizing this reality, and Ziguinchor, starting in continuous early 2013. Communityorganizations sold continuous net distribution subsidized nets for 500 CFA clearly become a vibrant culture through health facilities in and free distributions were June 2012 which is currently organized in primary schools distributions are expensive functioning nationwide. Free for students enrolled in first and not intended to be annual LLINs are provided to pregnant and fourth grade. It is expected

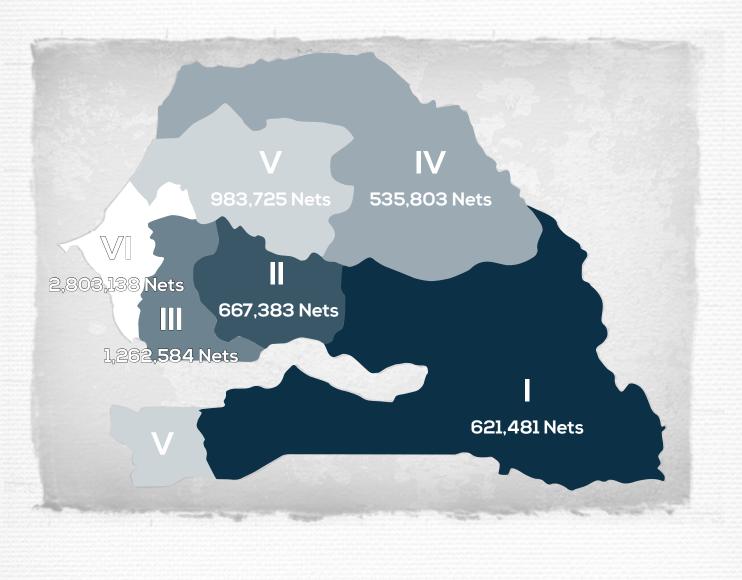
program has been launched to ensure the availability of community mobilization, distribution channels are expected to expand and evolve in what has of net use in Senegal.

SUMMARY TABLE

Region	Census	Sleeping	Existing Nets in	Nets
	Population	Spaces	Good Condition	Distributed
Sedhiou	442,380	233,217	48,202	174,500
Kolda	364,268	197,611	28,756	158,100
Kedougou	107,635	69,240	14,432	45,657
Tamba	653,538	358,416	92,194	243,224
Phase I	1,567,821	858,484	183,584	621,481
T C •	<u></u>	540.000		0.60.610
Kaffrine	604,445	549,236	55,792	268,619
Kaolak	977,195	343,917	114,365	398,764
Phase II	1,581,640	893,153	170,157	667,383
Diourbel	1,715,911	1,045,810	122,835	922,135
Fatick	751,096	429,466	89,017	340,449
Phase III	2,467,007	1,475,276	211,852	1,262,584
Saint Louis	1,002,550	529,234	146,390	334,522
Matam	618,383	313,811	66,804	201,281
Phase IV	1,620,933	843,045	213,194	535,803
Ziguinchore	622,827	371,014	133,121	370,061
Louga	1,020,028	616,251	145,915	613,664
Phase V	1,642,855	987,265	279,036	983,725
Thies	2,084,213	1,153,544	47,309	1,105,848
Dakar	3,234,430	1,837,726	70,302	1,697,290
Phase VI	5,318,643	2,991,270	117,611	2,803,138
0 1				
Grand Total	14,198,899	8,048,493	1,175,434	6,874,114

PHASES I-VI

6.874.114 nets distributed 5/19/2010 - 6/1/2013



PHASE I: 5/19/2010-10/13/2010 PHASE II: 12/6/2010-3/17/2011 PHASE III: 4/12/2011-7/15/2011

PHASE IV: 9/7/2011-1/3/2012 PHASE V: 4/17/2012-6/30/2012 PHASE VI: 2/1/2013-6/1/2013

ACKNOWLEDGMENTS

rens of thousands of people across the country were actively and who continue to encourage people to use their nets regularly involved in the design, planning, implementation and and care for them. evaluation of the universal coverage mass campaigns in Senegal. Because of their hard work and determination, nets are And finally, this work could not have been completed without the now hanging and being used in homes throughout the country. tireless work of all the Peace Corps Volunteers and NetWorks' technical, administrative and financial staff for their dedication Special recognition is given to the PMI Senegal team. Without their and help in making universal coverage a reality for Senegal.

technical wisdom, financial support and flexibility, Senegal would never have been able to successfully complete the mass campaigns Layout and design: Michael Toso and launch continuous distribution.

Stories, text, technical reports and edits: Ousman Ba, Insa Badji, Additionally, the NMCP was an impressive leader and ally Sara Berthe, Mohamadou Diop, Andrea Brown, Ardo Faye, Aliou throughout the design and rollout of the UC mass distributions. Fall, Lamine Gaye, Ababacar Gueye, Debbie Gueye, Chris Hedrick, WHO provided ongoing encouragement and motivation to the Aida Kane, Maxime Lambert, Youssoufa Lo, Aziz Mbaye, Matt UC teams based both in Dakar and the field. McLaughlin, Male Ismael Moulay, Saliou Ndiaye, Joan Schubert, Julie Thwing and Michael Toso.

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UNIVERSAL COVERAGE SENEGAL 2010-2013











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