Value of community mobilisation within malaria control capacity strengthening
Background for New Guinea Islands Region (NGIR) Innovative Malaria Projects

- who is Shared Sky

Focus on Innovation, Sustainability and Transferable Lessons Learnt by “collective impact through unrestricted collaboration”

• **History**: Gates Foundation funded MMV founded the PNG Industry Malaria Initiative (PIMI) in late 2013
• **PIMI Strategy**:
  – In late 2013, 18 of 22 PNG provinces had current major resources operations
  – These provinces could enter PPP’s with host provinces through progressive elimination outward from operations lease, **However**
• **Parts of the NGIR - Autonomous Region of Bougainville (ARoB) and Manus Province (MP) both lacked current industry operators**
  – MMV transferred responsibility for initiatives to **Shared Sky**
  – Shared Sky established a joint expert team to conduct initial scoping and feasibility studies in ARoB (**Accelerated Malaria Control Project**) & MP (**Manus Province Malaria Alliance**)  
• Since then, Shared Sky has developed a further initiative, the **New Ireland Province Malaria Alliance (NIPMA)**
New Guinea Islands Region (NGIR) Innovative Malaria Projects

Introduction

Value of community mobilisation within malaria control capacity strengthening

• Across much of PNG there is a Healthy Village model. It is referenced in the National Malaria Control Strategic Plan 2014-2018 as a component of one of the seven objectives:
  • Objective Six: Maximise utilisation of malaria control services through implementation of a comprehensive advocacy, communication and social mobilisation (ACSM) effort
    – 6.3: Support progressive roll-out of Healthy Village model for malaria control in selected high population density, high transmission sites
• The Healthy Village model is evident in different stages of development in PNG. Two active examples are
  – a functioning network based in the Autonomous Region of Bougainville, the Bougainville Healthy Communities Programme (BHCP)
  – a developing example based in Manus Province is the Healthy Village (HV) initiative
• In the above instances, Shared Sky has been involved through
  – a Collaboration Agreement with the BHCP
  – enabling a member of the Manus HV program to attend an APMEN arranged study tour of Sri Lanka
Proposed New Guinea Islands Malaria Alliance Initiative (NGIMAI)
Incidence/ 1000 Population
2015 SPAR Report

NGIMAI

LMEP – Lihir Island

MPMA

NIPMA

AMCP

Lihir (Group) Malaria Elimination Project – LMEP
New Ireland Province Malaria Alliance – NIPMA
ARoB Accelerated Malaria Control Project – AMCP
Manus Province Malaria Alliance - MPMA

Indicator Value
- 1 - 50
- 50 - 100
- 100 - 150
- 150 - 200
- 200 - 250
- 250 - 300
- 300 - 350
- 350 - 400
- 400 - 450
- 450 - 500
- >500
New Guinea Islands Region (NGIR) Innovative Malaria Projects

- Across the Shared Sky New Guinea Islands Region malaria projects, there are four key Assessment Pillars:
  - Healthy Village/Healthy Wards Assessment
  - Vector Control Program
  - Malaria Impact Zones / Malaria Management Zones
  - National Health Standards Survey (NHSS)
    - Drug & Diagnostic Supply Chain Review
    - Case Management & Diagnosis Assessment
- The rest of this presentation will introduce both our Malaria Impact Zone concept, and the Bougainville Healthy Communities Programme (BHCP)
I will show how the elements of ‘Capacity Building’ and “Ownership” central to BHCP have a direct impact on malaria control, and are a major part of our future proposed strategies
Malaria Impact Zones - Evolution of Information matrix

<table>
<thead>
<tr>
<th>Parameters</th>
<th>LIHIR</th>
<th>MANUS</th>
<th>AROB</th>
</tr>
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<tbody>
<tr>
<td>LLG's</td>
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<tr>
<td>Health Facilities</td>
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<td>Health Centres in each Zone</td>
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<tr>
<td>Aid Posts - Operational</td>
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<tr>
<td>Aid Posts - Closed</td>
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<tr>
<td>Malaria</td>
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<tr>
<td>Malaria burden – % per Zone</td>
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<tr>
<td>Malaria burden – rising-falling trend</td>
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<td>Economic Activity - provision of services</td>
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Started as a simple 3 by 3 matrix of Lihir Hills Coast Mine site
New Guinea Islands Region (NGIR) Innovative Malaria Projects – Malaria Impact and Management Zones Table Extract

<table>
<thead>
<tr>
<th>Parameters</th>
<th>Lorengau Township (Zone 1)</th>
<th>Coastal Strip &amp; Close Islands (Zone 2)</th>
<th>Inland populated (Zone 3)</th>
<th>Inland Non-Populated (Zone 4)</th>
<th>Western Manus Coast Populated Area (Zone 5)</th>
<th>Remote Western Islands (Zone 6)</th>
<th>South and Eastern Islands (Zone 7)</th>
<th>Lombrum, Regional Refugee Processing Center</th>
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<tbody>
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<td>Malaria Burden - local over time</td>
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</tbody>
</table>

- Approximately 6,000 population (variable number of transients)
- Malaria species found
- Malaria hot spots
Manus Province Malaria Alliance (MPMA) Project
Objective: Province wide pre-elimination of malaria
ARoS Accelerated Malaria Control Project (AMCP)
Objective: Autonomous Region wide accelerated malaria control
ARoB Malaria Impact Zones

1. North/East & South Buka Island
2. South West Buka Island
3. East Coast Bougainville Island
4. South & South West coast and foothills Bougainville island
5. North West coast Bougainville Island
6. Mountain Range Bougainville island
7. Nissan and other outer islands
New Ireland Province Malaria Alliance (NIPMA) Project

Objective: To advance malaria control to pre elimination and elimination within New Ireland Province through a unique, public-private NIP malaria partnership cross sector alliance between NIP and its agribusiness, mining, health services and NGO sectors. It has the chance to be the first province in PNG to achieve malaria elimination.
...and the winning parameter is ...

Attack plans – first need:
• Working Health Centres and Aid Posts
• Better Data / Faster data
• A coordinating body
• A malaria response team(s)
• An organised educated public

This aspect is more do-able than it might seem
• A structure exists in various stages of implementation in many Provinces
• The most effective roll-out currently is in ARoB –
• The Bougainville Healthy Communities Program
• With 93% of villages with volunteers
• Based on a manual of do's and don’t do's, to which malaria interventions can be/has been added

Manus has a scheme called the Healthy Wards Program and is picking up momentum ...
• after ARoB and Manus leaders had Shared Sky implemented exchanges of information and enthusiasm

Self help, village based technology and pride, is extremely cost and results effective

Ruby Mirinka
BOUGAINVILLE HEALTHY COMMUNITIES PROGRAMME (BHCP)
• ORIGIN OF BHCP

1st phase: (1994-2004) ABG Health Division with the support of Leprosy Mission successfully implemented Leprosy Elimination Program


3rd phase(2014 onward) BHCP to fully integrate into ABG Health Administration as its own programme.
GOAL

• “Healthier Bougainville communities through villages & Government sharing responsibility for good health”
HEALTH CENTRES
/SUB-HEALTH CENTRES
(STAFF: Drs, HEO, NOs & CHW)

BOUGAINVILLE COMMUNITIES
EDUCATION ON:
(Family planning, safe motherhood, immunisation, nutrition, community needs analysis & planning.
TB, Leprosy, Malaria, HIV/Aids, Cholera, Hygiene & sanitation, & other common preventable diseases i.e. diarrhoea, NCD
Programme monitoring, Evaluation and Learning (MEL) village treasury, Facilitated & Coordinated by village Health volunteers (VHV) with support of village leaders under supervision of BHCP District facilitators.
BOUGAINVILLE COMMUNITY HEALTH PROGRAM—
FOCUSES ON HEALTH PROMOTION AND DISEASE PREVENTION

VHV TRAINED TO DATE 2,579 -MALE 1231 AND FEMALE 1348

LEADERS ON LEADERSHIP & GOVERNANCE. TRAINED TO DATE 2,145 -MALE 1604 FEMALE 541
BHCP program contributions to malaria reduction in Bougainville.

1. Destruction of mosquito breeding sites through cleaned and beautified and well drained village environment.
2. VHVs involvement in bed nets education and distributions.
3. Community initiatives in setting up model healthy villages and Islands, with support of BHCP.
4. Active swamp drainage near villages
5. Education about mosquito biology, identification and destruction
New Guinea Islands Region (NGIR) Innovative Malaria Projects: Community Engagement - Behaviour Change Communication
New Guinea Islands Region (NGIR) Innovative Malaria Projects: Community Engagement - Education and action/mitigation
BHCP and Shared Sky malaria control initiatives in practice

HYGIENE & SANITATION AND DESTRUCTION OF BREEDING PLACES.