Data Use Innovations and Best Practices Meeting

Data integration and visualization to Focus for Impact

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Focus for Impact

• Data integration and visualisation to support the Focus for Impact approach for South Africa’s HIV, TB and STI response

• Scalable and sustainable tools and platform for coordination, monitoring and decision-making for implementation of NSP 2017 to 2022
Key questions we answer through Focus for Impact approach

**Key question 1 - Where are the high burden areas?**
Identify geographical areas with a high HIV, TB and STI burden areas using routine health data

**Key question 2 - Why is this a high burden area?**
Profile epidemiology and associated risks using secondary data and community dialogue

**Key question 3 - Who is at risk in this high burden area?**
Identify key or vulnerable population to focus on as well as who is not accessing services adequately (access and availability)

**Key question 4 - What are we going to do to reduce the burden in this area?**
Multi-sectoral Implementation plans and interventions
Focus for Impact brings together 3 important components

to support coordination, monitoring and decision-making in the HIV, TB and STI response
Reaching consensus
# Data

<table>
<thead>
<tr>
<th>Level</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>National</td>
<td>Thembisa – HIV prevalence trends per age group</td>
</tr>
<tr>
<td>Province</td>
<td>Thembisa - HIV trend data for mortality, incidence, prevalence &amp; prevention per age group</td>
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<tr>
<td>District</td>
<td>HSRC Behavioural survey</td>
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<tr>
<td>Local municipality</td>
<td>AIDS and TB mortality</td>
</tr>
<tr>
<td>Ward</td>
<td>Census 2011 demographic dynamics, SAMPI (Poverty Index)</td>
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<tr>
<td>PHC Facility</td>
<td>PHC facility routine data from DHIS</td>
</tr>
<tr>
<td>Community</td>
<td>community assets, associated risks</td>
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</tbody>
</table>
Routine health data

OUTCOMES
- HIV Positivity
  - All (Combined)
  - 6 weeks
  - 10 weeks
  - 18 months
  - 1 - 4 years
  - 5 - 14 years
  - 15 - 49 years
  - Antenatal 1st Visit
  - Antenatal Re-test

ART
- Antenatal on ART (at 1st visit)
- Antenatal client initiated (rate)
- Total on ART (month end)
- Total on ART (during month naïve)

STI
- Male Urethritis Syndrome rate

Condom Distribution
- Female Condoms
- Male Condoms

Teenage Pregnancy
- Delivery < 18

TB
- Identified
- Sputum Test Rate
- Tested Positive
- Treatment Initiation

labels
options
opacity

SPATIAL LAYERS
- Fixed Layers
- Calculated Layers
Data visualisation
Data analysis

Numerator Value

Indicator Value
Data Analysis
Exploring relationships
Tools and Technology

- F4I toolkit
- Web-application that focuses on interoperability and sustainability
- Visualise key data and associated information - combination of open source technology and propriety software
- Caters for variety of source data formats and supported on both desktop and mobile platforms
- User registration (secure access) – administration at national, provincial and district level
People (users)

- Integrate approach into planning PIP and MDIP
- Access to web-application
  - *Managers from Government and Donor Implementation organisation* – to view, access and export relevant detail as maps, graphs and summary reports for decision making
  - *Provincial, District and Local AIDS Councils* – to view, access and export relevant detail as maps, graphs and summary reports for oversight and decision making at the relevant level
  - *General public* – to view and engage with non-sensitive data as an advocacy and empowerment tool
Lessons learnt

• Buy-in at all levels (National, Provincial, District and Local) is critical for the approach to be successful
• Use existing structure for engagement, especially at a community level
• While “perfect” data may not exist, enough reliable data are available to guide broad decisions
• Hard to reach populations are difficult to recruit for participation in community workshops – needs a different strategy
• NB – one version of the truth for a given point in time!!
A healthy future is within our grasp

“The ‘focus for impact’ approach outlined in this NSP offers a roadmap for fully leveraging scientific advances, while greater engagement of affected communities and all sectors frames the response. Through this NSP we can set a path that ensures that our country will be free from the burden of HIV, TB and STIs.”

Source NSP 2017-2022; Page xx
Acknowledgement

• Funding for Phase 1 development and testing of the HIV geospatial mapping and profiling through Focus for Impact through CDC funding and in-kind contribution from NDoH (link to NHIRD development)

• Further development through GF funding for Phase 2