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Motivation: Nigeria context

- 14% of all child deaths
- Decentralized health system
- Comparable evidence needed
- Collating secondary data to estimate trends by state
### Analytical approach: Data synthesis overview

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Collate all available data from multiple sources</strong></td>
<td><strong>Generate source-specific estimates</strong></td>
<td><strong>Estimate trends over time and space</strong></td>
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<tr>
<td>Microdata from household surveys and tabulated data from reports</td>
<td>Over 40 indicators covering health outcomes, intervention coverage, and socio-demographic factors</td>
<td>Synthesize data sources to estimate trends for 36 states and the Federal Capital Territory (FCT), 2000–2013.</td>
</tr>
</tbody>
</table>

Develop an accessible interactive tool for any interested stakeholders.
1 Collate data

<table>
<thead>
<tr>
<th>Survey family</th>
<th>Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malaria Indicator Survey (MIS)</td>
<td>2010</td>
</tr>
<tr>
<td>Core Wealth Indicator Questionnaire (CWIQ)</td>
<td>2006</td>
</tr>
<tr>
<td>Multiple Indicator Cluster Survey (MICS)</td>
<td>2011, 2007, 1999</td>
</tr>
<tr>
<td>Survey of Socioeconomic Activities</td>
<td>2010</td>
</tr>
<tr>
<td>SMART Rapid Survey</td>
<td>2013, 2012</td>
</tr>
</tbody>
</table>
2 Source-specific estimates
3. Estimate trends (I)

The graph shows the percent of births in facility over the years from 2000 to 2013. The data points are differentiated by sources: CWIQ, DHS, and MICS. The green line represents the mean trend (I) over the years.
3 Estimate trends (II)

![Graph showing percent of births in facility over years with different data points and trend lines.]

- Mean trend (I)
- GPR (II)
- CWIQ
- DHS
- MICS
Results: a snapshot of indicators

- **Malaria:** artemisinin-based combination therapy (ACT) use among febrile children under 5, intermittent preventive therapy in pregnancy (IPTp2), ownership and use of insecticide-treated nets, indoor residual spraying coverage

- **Under-5 immunizations:** diphtheria-pertussis-tetanus (DPT3), polio (OPV3), measles, BCG

- **Other maternal and child health (MCH):** 4 antenatal care visits, presence of skilled attendant at birth, location of deliveries

- **Outcomes:** under-5 mortality, nutritional outcomes for children under 5 (stunting, wasting, underweight)

- **Socio-demographic indicators:** average years of educational attainment, improved water source and sanitation at household, electrification, household size
Demonstration: Interactive results tool
Demonstration: Interactive results tool
Discussion: Key takeaways

Synthesize disparate data sources to make comparable trends

Broad observations
• Decreasing disparities in under-5 mortality across states, but overall levels remain high
• Diverging immunization results: strong vertical program for polio vaccine administration and weaker routine vaccine services

Current policy context
• Assess implementation of the National Health Bill

Too many results to cover here – interested parties to explore forthcoming publically available tool
Thank you

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Discussion: Limitations and future directions

Smaller area estimation
Local government areas

Engaging local stakeholders
How can these analyses be improved to meet their needs?

Tool to allow interested parties to explore their interests
Demonstration: Interactive results tool
Demonstration: Interactive results tool