“Serious gaps remain in assessing country-level progress towards the SDGs”

Proportion of countries with available data, by goal
Average: 60% of countries per goal

Most recent year data is available, average, by goal
Half of countries do not have G1 data since 2016

Data on Demand: efficiency-enhancing innovations

India’s Aspirational District Program

- 115 Districts
- 200+ million people
- 49 indicators
- Ranked monthly
- Uses MIS & surveys

Data on Demand cost savings

<table>
<thead>
<tr>
<th>NFHS</th>
<th>Data on Demand Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>55%</td>
</tr>
<tr>
<td>13</td>
<td></td>
</tr>
<tr>
<td>34</td>
<td></td>
</tr>
<tr>
<td>19</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

Example surveys

1. 41,000 H.H. in-person, 80 days → Informs central, state & district government action
2. 6,000 H.H. CATI, 2 weeks → First data to central government for COVID response
4 innovations to improve speed and cost, with high accuracy

1. Sampling

2. Remote enumerators

3. Quality controls

4. Automated data system
1. **Sampling:** less expensive, unbiased alternatives to H.H. listing

**Voter rolls save 86%**

- **NFHS**
  - % of total survey cost: 9

- **Data on Demand Model**
  - % of total survey cost: 1.3

**96% coverage in rural areas**

- Rural: 96%
- Urban: 78%

**Unbiased: <0.01 s.d.**

Working paper: Are voter rolls suitable sampling frames for household surveys? Evidence from India
2. Remote enumerators: efficient if managed well

Enumerators live close to sampled HH

- **Cost savings: 50%**
- **Time savings: 64%**

Working paper: Annual health surveys? Innovations to improve the efficiency and data quality of India’s National Family Health Survey
3. Data quality controls: ensuring accuracy at scale

Data quality control processes

- Questionnaire design
- Translation
- Hiring
- Training
- Survey software checks
- Audio audits
- Spot checks
- Back checks
- Data checks
- Data analysis
3. Data quality controls: ensuring accuracy at scale

Data quality control processes

- Questionnaire design
- Translation
- Hiring
- Training
- Survey Software checks
- Audio audits
- Spot checks
- Back checks
- Data checks
- Data analysis

- Labor-intensive
- Expensive
- Automatable?

Developing ML model

Identifies 30% more errors so far...

But not yet a substitute
4. Data systems: the backbone for efficiency and quality
Data on Demand: a scalable, replicable model

Status quo HH survey schedule
- Start
- Data available

Vision
- HH surveys
- Phone

Proportion of countries with available data, by goal

Most recent year data is available, average, by goal

2014: G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, G13, G14, G15, G16, G17
2030: G1, G2, G3, G4, G5, G6, G7, G8, G9, G10, G11, G12, G13, G14, G15, G16, G17
Thank you!

andrew.fraker@idinsight.org