



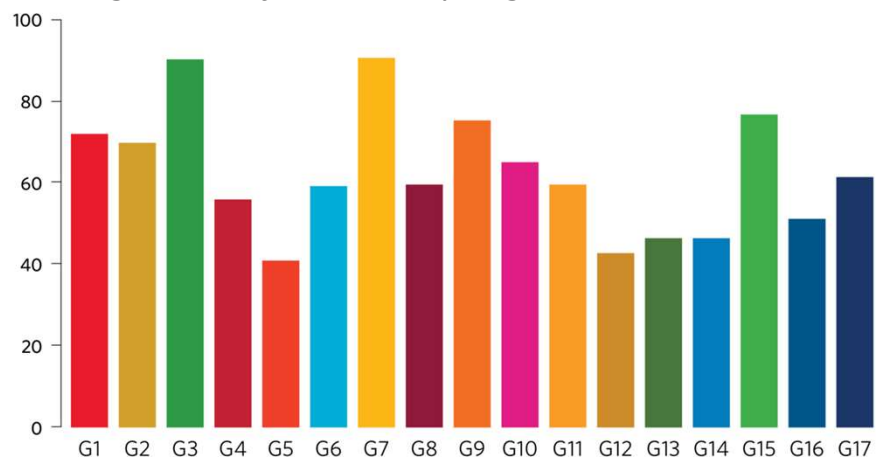
Transforming SDG measurement with rapid and inexpensive surveys

Andrew Fraker | IAEG-SDGs | Nov. 5, 2020

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

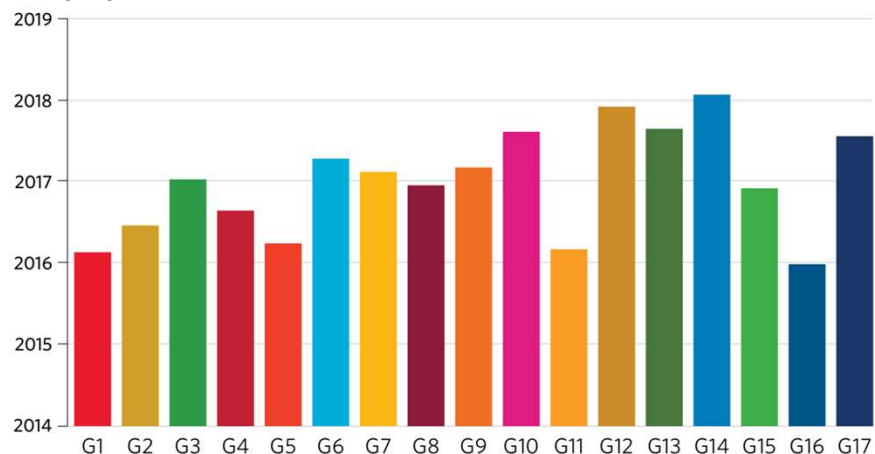
Proportion of countries with available data, by goal

Average: 60% of countries per goal



Most recent year data is available, average, by goal

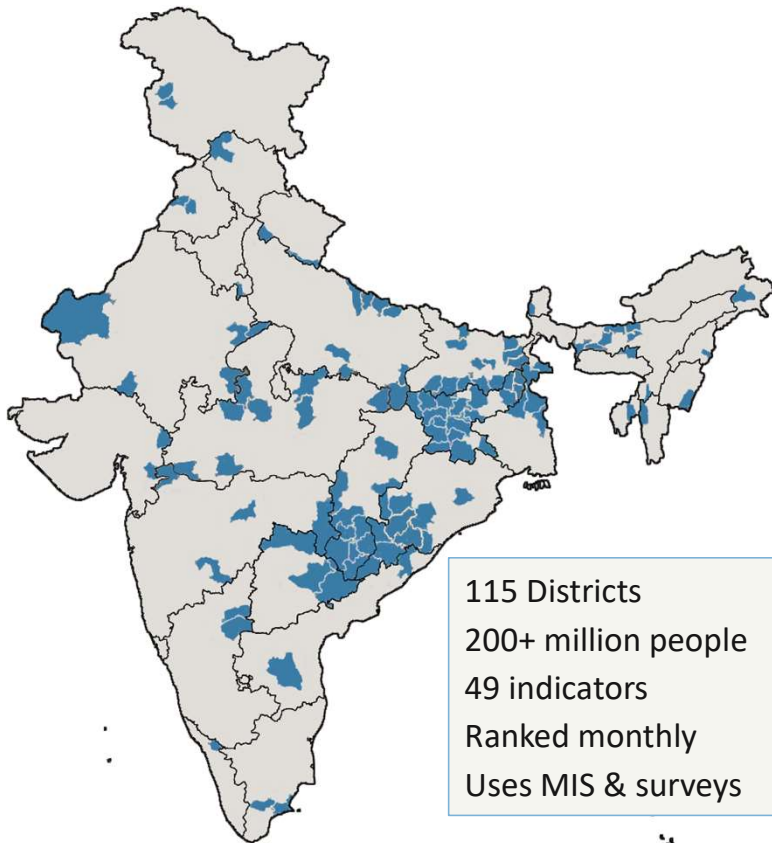
Half of countries do not have G1 data since 2016



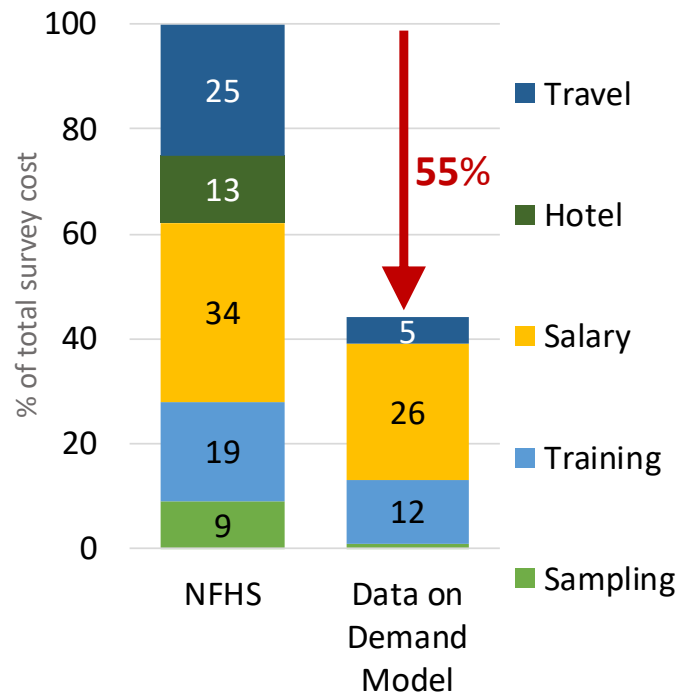
Source: The United Nations, [The Sustainable Development Goals Report 2020](#)

Data on Demand: efficiency-enhancing innovations

India's Aspirational District Program



Data on Demand cost savings



Example surveys

- 41,000 H.H. in-person, 80 days
→ *Informs central, state & district government action*
- 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

4

1. Sampling

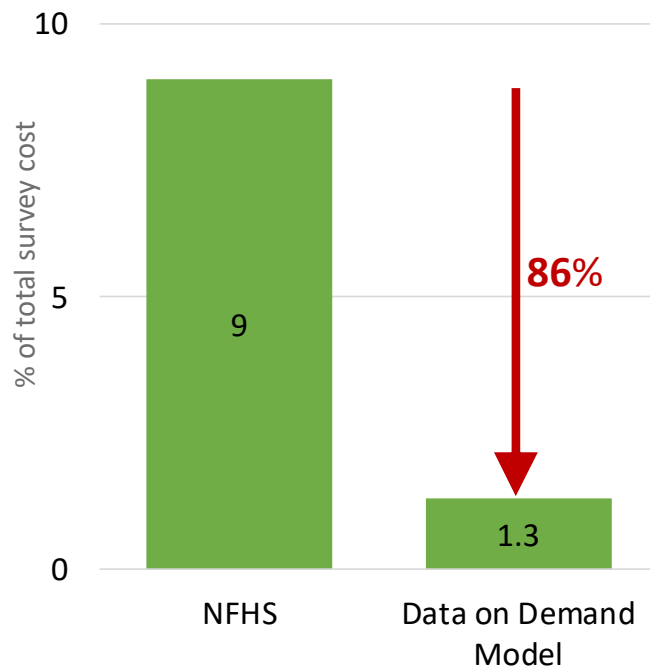
2. Remote enumerators

3. Quality controls

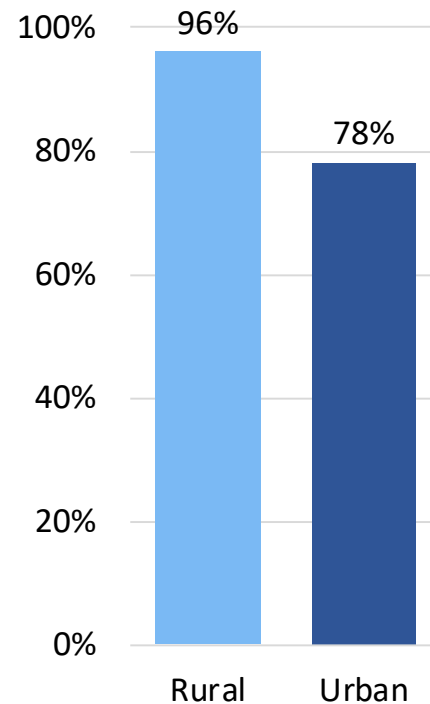
4. Automated data system

1. Sampling: less expensive, unbiased alternatives to H.H. listing

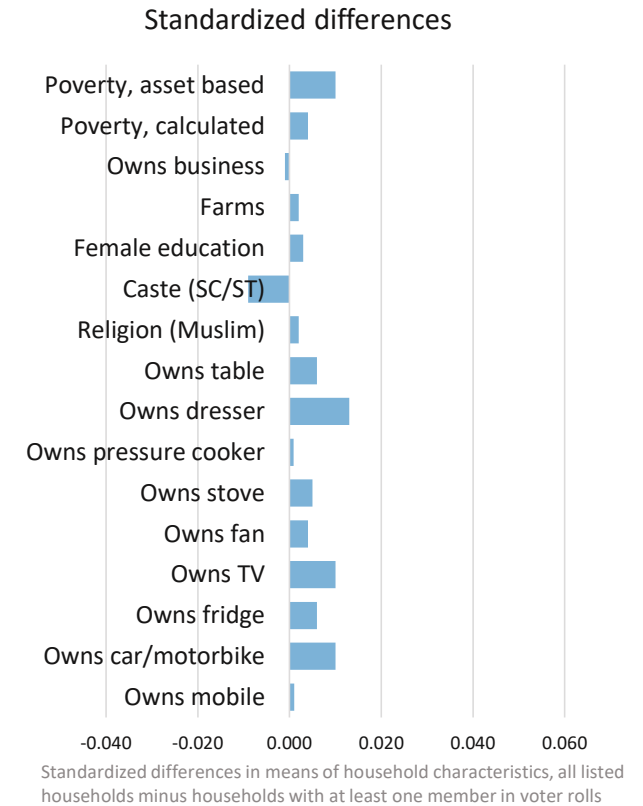
Voter rolls save 86%



96% coverage in rural areas

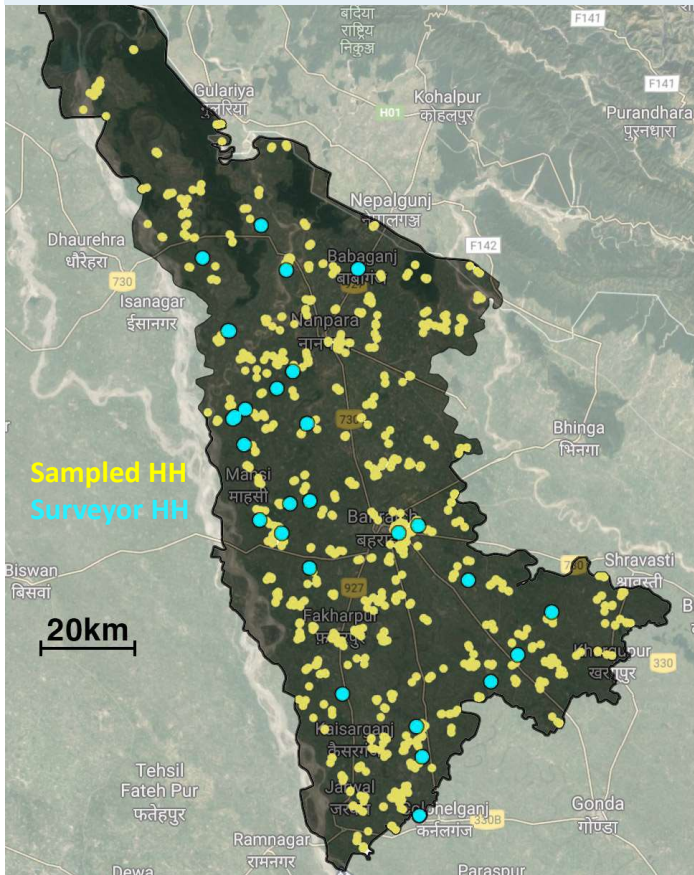


Unbiased: <0.01 s.d.

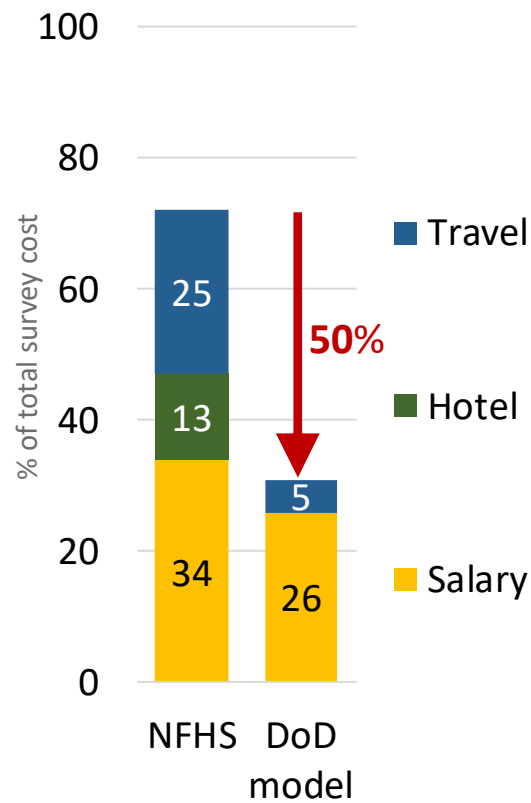


2. Remote enumerators: efficient if managed well

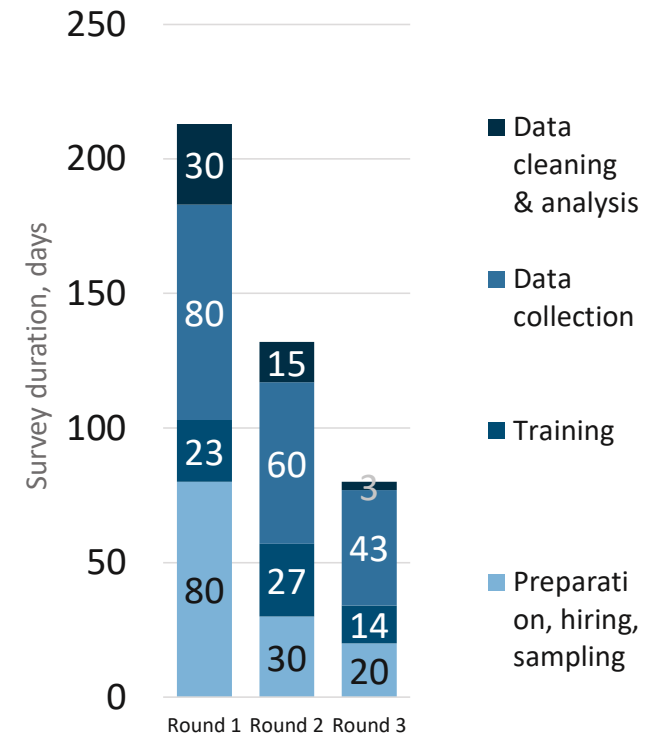
Enumerators live close to sampled HH



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



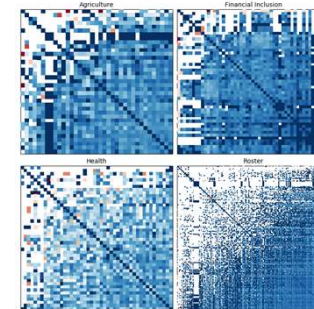
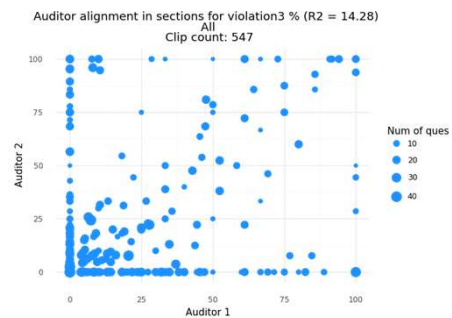
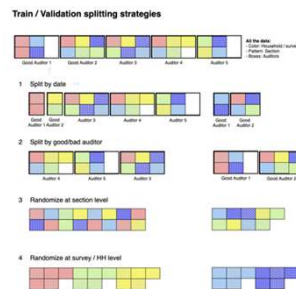
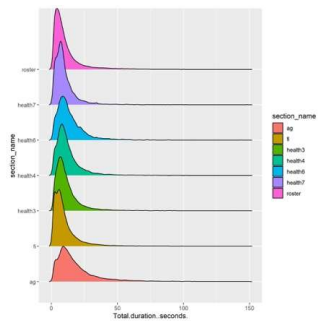
3. Data quality controls: ensuring accuracy at scale

Data quality control processes



- Labor-intensive
- Expensive
- Automatable?

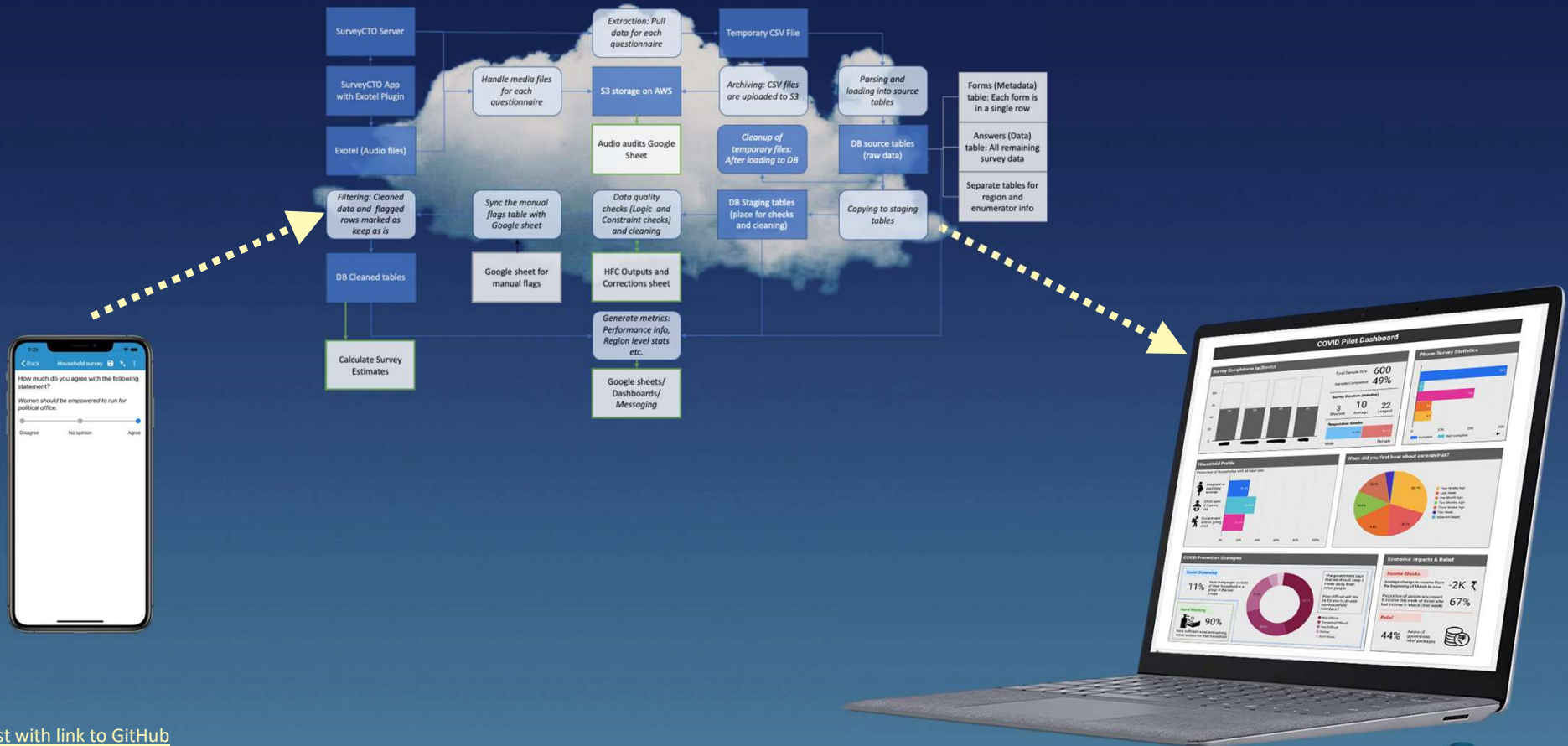
Developing ML model



Identifies 30% more errors so far...

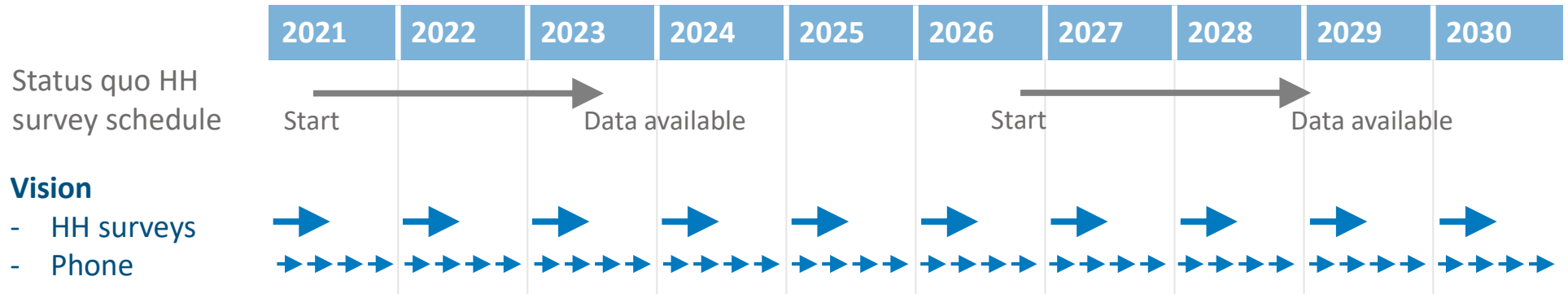
But not yet a substitute

4. Data systems: the backbone for efficiency and quality

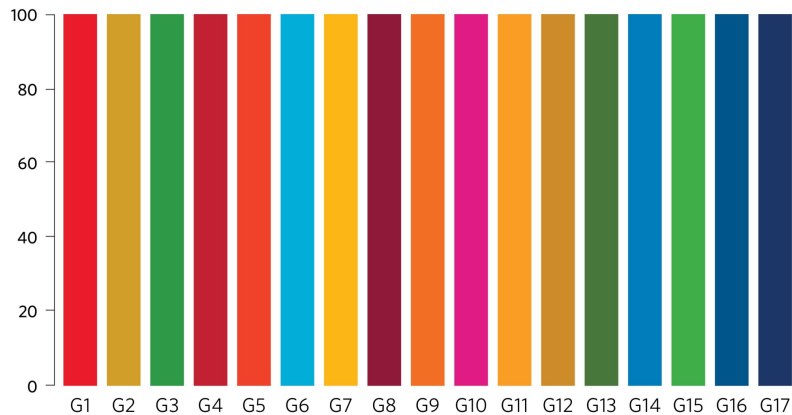


[Blog post with link to GitHub](#)

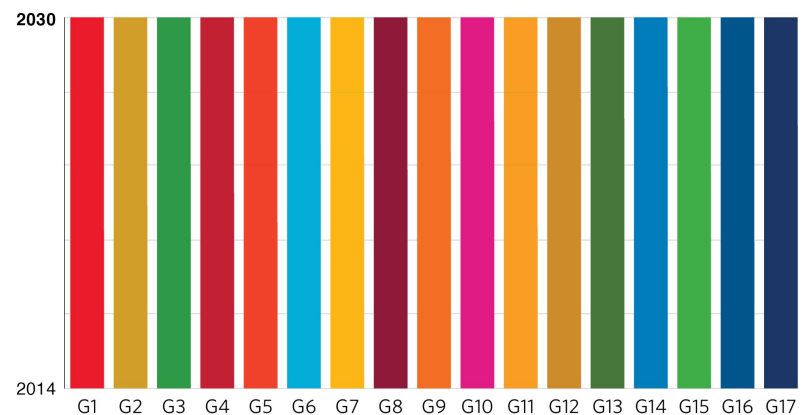
Data on Demand: a scalable, replicable model



Proportion of countries with available data, by goal



Most recent year data is available, average, by goal



Thank you!

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