

HEALTHY BIRTH, GROWTH & DEVELOPMENT

knowledge integration

December 6, 2017

Grand Challenges Explorations: Motivations and Opportunities

Dr. Thea Norman, Senior Program Officer, Quantitative Sciences

HBGD*ki* India: Leading the way toward investigator empowerment and global partnership



GCE: Analyzing large data sets with strategic value for HBGD

Proposed Grand Challenge Explorations

India-focused GCE

To build interactive collaborations between India medical and scientific researchers and Indian data scientists.

Answer India-specific questions.

Brazil-focused GCE

To foster a research community based in Brazil and working with the 100 million person Bolsa Familia program.

Answer Brazil-specific questions.

Global GCE

To catalyze open research around key studies focused on enteric and diarrheal disease (EDD).

Answer EDD-specific questions and develop cutting edge data science tools.

India-focused GCE (1 of 2)

Building defined collaborations between Indian study investigators and data scientists

Desired outcomes:



- 1 This GCE will seed **Indian research science/data science collaborations** that are currently lacking. These collaborations will enable PI's to develop and apply cutting edge data science approaches.



- 2 This GCE will provide career opportunities for Indian data scientists to **impact global health**.



- 3 This GCE will identify India data resources (i.e., ICMR, programmatic government data, other) that would be of **high value** for answering India's toughest HBGD data problems.

India-focused GCE (2 of 2)

Building defined collaborations between India study investigators and India-local data science experts

Proposed Partners:

- India BIRAC PMU: managing the call
- Other potential partnership opportunities: ICO, KNIT and ICMR

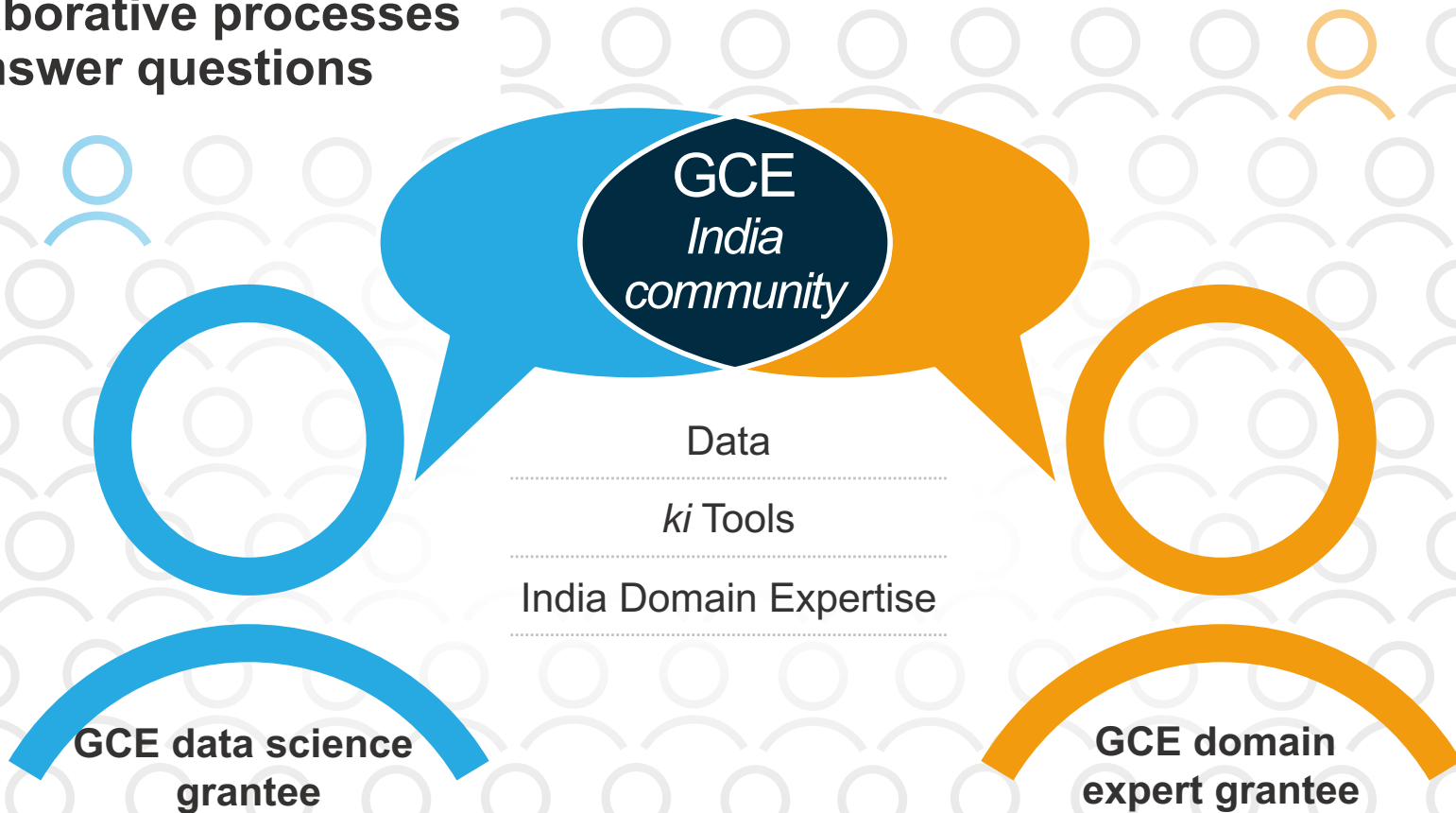
Call Topic:

- India's toughest HBGD problems where data and models can help provide answers and accelerate the delivery of solutions.
- Today's design-thinking session is all about getting everyone here to help select the best call topic.

Proposal Considerations:

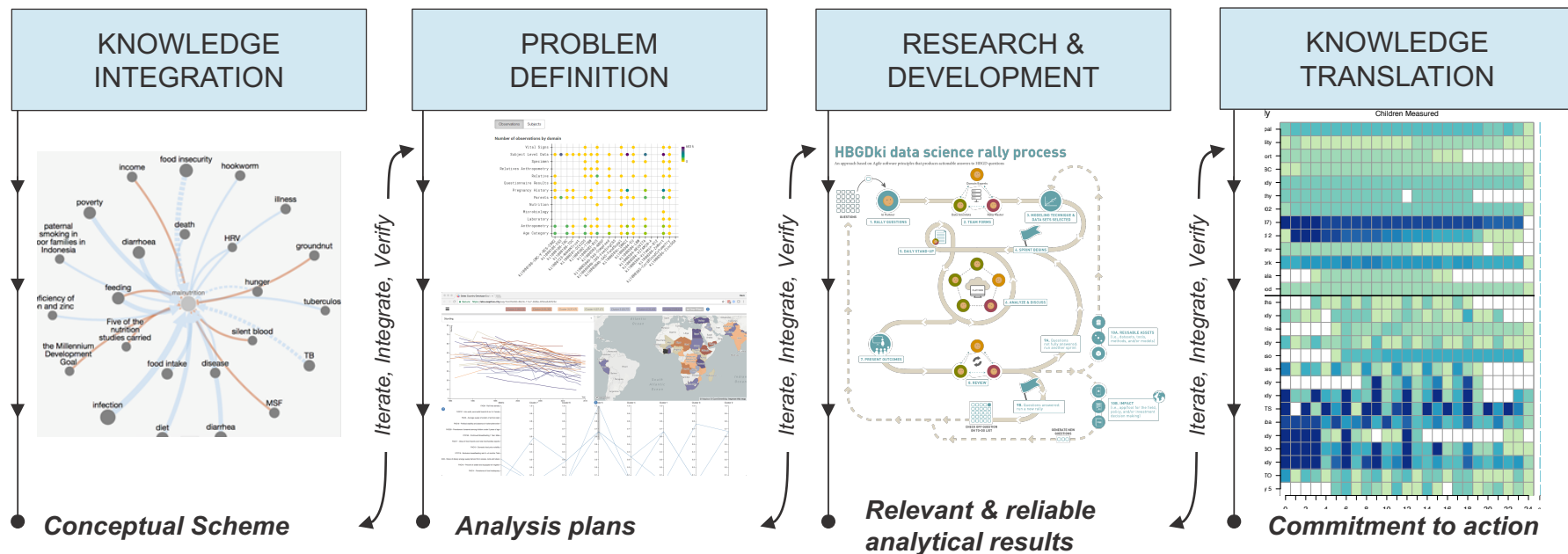
- Ideally each proposal team is multi-disciplinary.
- How to help PIs and data scientists find each other?
- How/where to access India-local data science talent?
- What data sets will be most important to make available to GCE teams?
- What tools and resources will the teams need to maximize their effectiveness?

GCE India: New collaborative processes to answer questions

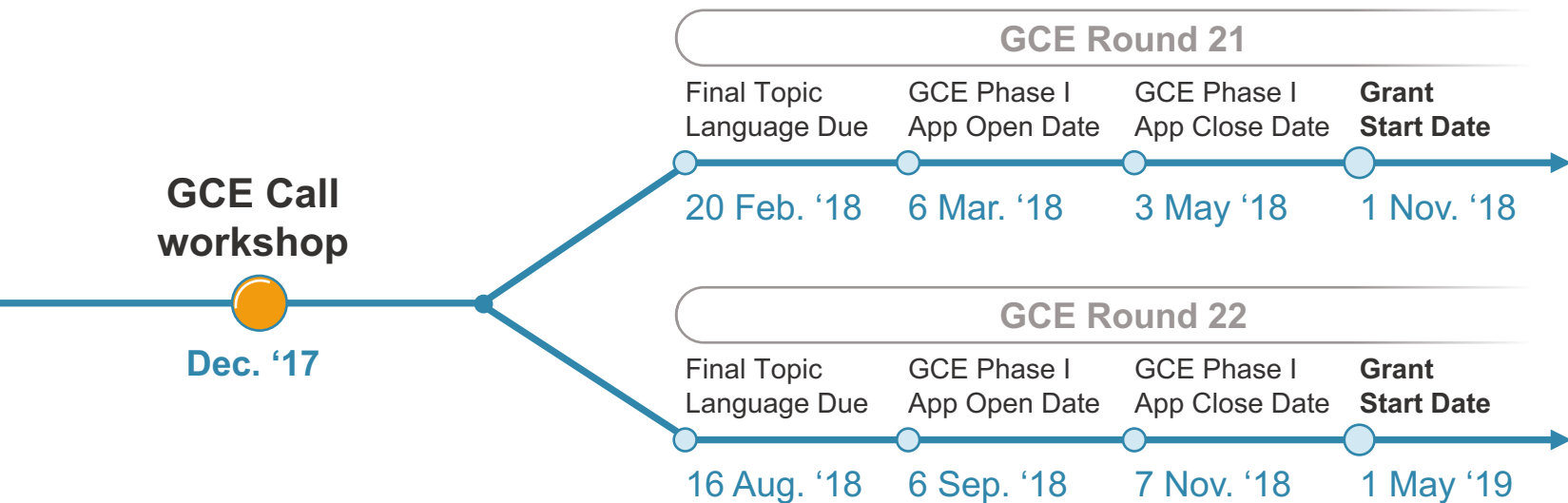


GCE India: Leveraging Ki tools to accelerate team-based innovation

Training funded GCE teams on collaborative data science tools and approaches



Timeline for India GCE



Q&A