

**Geospatial Immunization Modeling for Equity: Summer 2019 Technical Meeting**

August 15-16, 2019 – Washington DC, Eaton Hotel  
Draft Agenda

**Objectives**

- o Review current efforts and use cases in geospatial immunization modeling for immunization coverage and equity
- o Summarize learnings, experiences, opportunities and challenges of using geospatial modeling for research and globally-focused monitoring
- o Sharing of ideas around priorities for innovation to support and advance the immunization equity agenda
- o Define a shared agenda around the identified priorities and identify collaboration opportunities
- o Develop a coordinated position on the opportunities and challenges of using geospatial models for research and globally-focused monitoring
- o Do a preliminary review of current experiences and opportunities on use of immunization-related geospatial modeling for policy translation/country engagement/programmatic use
- o Identify mechanisms for continued conversation around geospatial immunization modeling

Day 1		
Time	Activity	Speaker/Chair
8:30 – 9:00	<b>Arrival &amp; Breakfast</b>	
9:00 – 9:20	<b>Welcome &amp; Opening</b> Intro o Round of introductions & expectations o Meeting objectives, expected outcome and agenda	Richard Duncan (UNICEF) Emily Dansereau (BMGF) & Rocco Panciera (UNICEF)
9:20 – 10:00	<b>Setting the tone on Immunization Coverage and Equity</b> o ERG immunization equity agenda o JRF sub-national admin data: current status and gaps for subnational level coverage monitoring, o Sweeping review of existing geospatial modelling effort	Richard Duncan (UNICEF) Marta Gacic-Dobo (WHO)  Rocco Panciera (UNICEF)
10:00 – 10:50	<b>Review of current geospatial immunization modelling methods and example applications</b>  <i>Presentations (15 min each)</i> o Overview of geospatial coverage modeling at IHME o Overview of geospatial coverage modeling at ICF o Overview of geospatial coverage modeling at Worldpop	Alyssa Sbarra (IHME) Ben Mayala (ICF macro) Andrew Tatem (Worldpop)
10:50 – 11:10	<b>Break</b>	

11:10 – 12:15	<p><b>(cont'd) Review of current geospatial immunization modelling methods and example applications</b></p> <p><i>Presentations (15 min each) o</i> Polio: Cross-sectional survey and surveillance data</p> <p><i>Round table (also covers 10:00 session):</i></p> <ul style="list-style-type: none"> <li>o What are the complementarities and gaps between modelling efforts?</li> <li>o What are the opportunities to better align/coordinate/leverage each other's modelling efforts</li> </ul>	<p>Megan Auzenberg (LSHTM)</p> <p>Chair: Emily Dansereau</p>
12:15 – 13:20	<p><b>Opportunities to strengthen and validate geospatial immunization estimates through data triangulation</b></p> <p><i>Presentations (10 min each) o</i> Triangulating coverage and immunity using surveillance data</p> <ul style="list-style-type: none"> <li>o Integrating sub-national administrative data into models (IHME)</li> <li>o Analyses incorporating admin data (Yale)</li> </ul> <p><i>Round table:</i></p> <ul style="list-style-type: none"> <li>o How can administrative data, surveillance and modelled estimate work together?</li> <li>o What are the priorities and opportunities for strengthening triangulation and validation efforts?</li> </ul>	<p>Matt Ferrari (PennState)</p> <p>Jon Mosser (IHME)</p> <p>Josh Warren (Yale)</p> <p>Chair: Rocco Panciera</p>
13:20 – 14:10	<b>Lunch</b>	
14:10 – 15:10	<p><b>Opportunities for combination of geospatial immunization estimates with additional data sources</b></p> <p><i>Presentations (10 min each, followed by 10 min discussion) o</i></p> <ul style="list-style-type: none"> <li>o GRID Project on population estimates</li> <li>o Optimizing surveys/data collection for geospatial modeling</li> <li>o Modelling geographic accessibility to health services</li> </ul> <p><i>Round table:</i></p> <ul style="list-style-type: none"> <li>o What are crucial sources of ancillary information that can strengthen the relevance of modelled estimates?</li> <li>o What are the main challenges and opportunities around strengthening data integration?</li> </ul>	<p>Andy Tatem (WorldPop)</p> <p>Dale Rhoda (Biostat Global Consulting)</p> <p>Steeve Ebener (Health GeoLab)</p> <p>Chair: Emily Dansereau</p>
15:10 – 16:10	<p><b>Interactive discussion on the 'fitness for purpose' of current geospatial immunization estimates for global strategy development, goal setting, and M&amp;E at global and country/program levels</b></p> <p><i>Round table:</i></p> <ul style="list-style-type: none"> <li>o What are the opportunities offered by current modelling methods and where do they offer advantage with respect to non-spatial solutions?</li> <li>o What uses are recommended vs. not, given current methods?</li> <li>o What would be needed to make it possible?</li> </ul>	<p>Chair: Emily Dansereau, Rocco Panciera</p>
16:10 – 16:30	<b>Afternoon Break</b>	

16:30 – 17:30	<p><b>Emerging opportunities for using geospatial modelling to address ERG Immunisation equity data gaps and related recommendations</b></p> <p><i>Presentations (10 min each)</i> o IDM subnational equity perspective (geography versus socio-economics)</p> <ul style="list-style-type: none"> <li>o Mapping zero-dose populations: conflict, remote rural, urban poor</li> <li>o Disaggregation of modelled estimates by socio-economic factors and addressing gender-related inequities in coverage</li> </ul> <p><i>Round table:</i></p> <ul style="list-style-type: none"> <li>o What are the main challenges to support the immunization equity agenda?</li> <li>o What are we not doing/what should we doing?</li> <li>o What information is missing to fulfil the immunization equity agenda?</li> </ul>	<p>Roy Burnstein (IDM)</p> <p>Andrew Tatem (WorldPop)</p> <p>Rocco Panciera (UNICEF)</p> <p>Chair: Rocco Panciera</p>
17:30 – 17:45	<b>Day 1 Wrap up</b>	Emily Dansereau, Rocco Panciera
19:00	<b>Dinner at a nearby restaurant (location TBC)</b>	

## Day 2

9:00-9:10	<b>Welcome back, Day 2</b>	Emily Dansereau (BMGF) & Rocco Panciera (UNICEF)
9:10 - 10:20	<p><b>Experience with geospatial modeling in other contexts</b></p> <p><i>Presentations (15 min each)</i> o The Malaria Atlas Project o Age and sex disaggregated HIV &amp; Under 5 child mortality o Other geospatial/mapping projects of interest (overview of BMGF cross-cutting portfolio) <i>Round table:</i></p> <ul style="list-style-type: none"> <li>o What opportunities are there for cross-fertilization and synergies with immunization modelling?</li> <li>o What opportunities are presented by these upcoming projects occurring beyond immunization space, and how to synch in?</li> </ul>	<p>Samir Bhatt (Imperial College)</p> <p>Jon Wakefield (Uni. of Washington)</p> <p>Io Blair-Freese (BMGF)</p> <p>Chair: Emily Dansereau</p>
10:20 - 11:30	<p><b>Experiences using geospatial modeling for policy translation/country engagement/programmatic targeting</b></p> <p><i>Presentations (10 min each)</i> o Use of geospatial models for sub-districts coverage monitoring in Kenya</p> <ul style="list-style-type: none"> <li>o Polio perspective on programmatic use of GIS</li> </ul> <p><i>Round table:</i></p> <ul style="list-style-type: none"> <li>o Opportunities and priorities for effective use of geospatial modeled estimates for policy translation/country engagement/programmatic use</li> </ul>	<p>Rocco Panciera (UNICEF)</p> <p>Ravi Santhana (WHO)</p> <p>Chair: Rocco Panciera (UNICEF)</p>
11:30 – 11:50	<b>Morning Break</b>	

11:50 - 13.00	<b>Defining a shared agenda for use of geospatial immunization modelling to advance the immunization equity agenda</b> <ul style="list-style-type: none"> <li>o Prioritization session to identify main priorities amongst those mentioned in previous sections</li> <li>o Matching priorities with opportunities</li> <li>o How can we work together to take advantage of those opportunities ?</li> </ul>	Chair: Emily Dansereau (BMGF) & Rocco Panciera (UNICEF)
13:00 - 13:20	<b>Next Steps</b> <ul style="list-style-type: none"> <li>o Establish mechanisms for follow-up activities (community of practice, follow-up meetings, specific meeting around policy translation/country engagement/programmatic use)</li> </ul>	Chair: Emily Dansereau (BMGF) & Rocco Panciera (UNICEF)
13:20 - 13:25	<b>Concluding Remarks</b>	Richard Duncan (UNICEF)
13:25 - 14:30	<b>Lunch Break</b>	
14:30 -16:30	<b>Follow-on meetings for collaboration opportunities surfacing during meeting</b>	

#### List of participants

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