Integrating maps and models: projections on eliminating NTDs

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Starting point... what tools do we already have?

Dynamic transmission models:
- Several different models available
- Each simulation is specific to a given community

High resolution maps of disease distribution:
- Geostatistics enables prediction in unmapped areas
- Large amounts of new data for many countries
Applying dynamic transmission models in a real world context

- Transmission models
- Disease distribution maps
- Intervention history
- Future intervention plans

Computational and statistical framework

OUTPUTS
- Today’s baseline
- Projections of programme impact
- User-friendly interface
A working example: LF in Ethiopia

For a given implementation unit:
- What is the probability of reaching low prevalence after 5 rounds?
- What is expected impact of twice yearly treatment?
- How important are coverage and systematic non-adherence?