Where is there room for improvement in models and decision support?

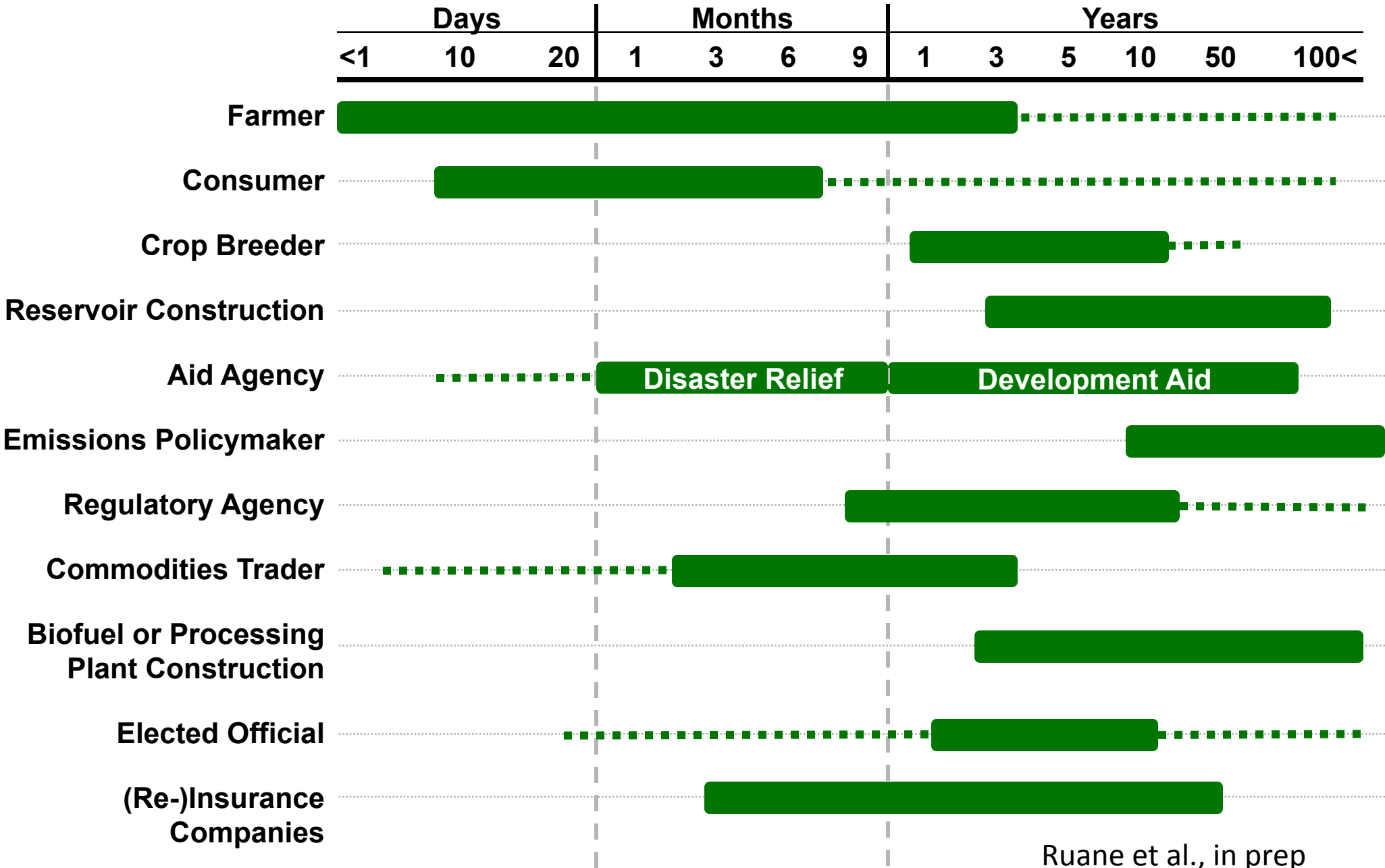
[What are we currently missing?]

- ***Equilibrium analysis missing transitory impacts/risk from shocks***
- ***Δ$ and Δyield are not sufficient indicators for risk***
- ***Food system structure and actors can exacerbate or ameliorate the shock cascade***
- ***Events in one place/time can have impacts on distant place/time***
- ***Interventions need to be aimed at resilience, not just response***
- ***Information and decision support must be timely and targeted***
- ***Hard to determine the wider effects of a single intervention context***

Note focus on transitory shocks

- ***Build resilience toward what is anticipated with flexibility to respond to unanticipated***

DRAFT-Temporal Scale of Agricultural Sector Stakeholder Interest



Case study typologies:

Already in White Paper (Section 9):

- **Pilots examining different time horizons**
  - Historical analysis of a recent prominent, observed food shock
  - Forecasting upcoming food shock
  - Understanding changing risk profile for food shocks in future decades
- **Pilots examining fundamental interactions**
  - Capturing complex systemic behaviors
  - Capturing dynamics between global and regional actors
  - Identifying households and populations most at risk (e.g., within-country income distributions, age, gender, farm system).
- **Pilots examining structural behaviors and balance**
  - Externally-driven (non-food system focused) structural changes where we hope food system risk will not be elevated (e.g., large-scale demand for bioenergy)
  - Balancing near-term needs with long-term sustainability / triple-bottom line
- **Pilots around next-generation model design**
  - Proposing new output metrics needed
  - Identifying priority observational products needed
  - Characterizing more useful communications/tool interfaces needed

Raised yesterday:* *Venezuela, Arab Spring, Libya, Zimbabwe (food focus)