**Groupwork exercise**

**Context**

Suppose that you are interested in developing a TB model for India. The overall TB incidence in India is high (195/100,000 people per year in 2023, according to the Global TB Report) and has been stable over the last 10 years. In this simplified example, a key factor thought to be the cause of this high incidence, is that most of the population of 100,000 people is poor and lives in very crowded conditions.

Your government is thinking of implementing different interventions in order to reduce tuberculosis incidence and is particularly interested in the impact of existing (i.e., the Bacille Calmette-Guerín, or BCG, vaccine) and possibly new TB vaccines for adults.

**However, before doing so,** it would like to understand how **poverty and crowding** may influence tuberculosis incidence.

In small groups, you are asked to discuss the questions below for the next 20 minutes and summarize your answers.

1. What would be a simple initial structure for the model which you might use to explore how poverty and crowding influence tuberculosis incidence?
2. What are the limitations of your selected model structure?
3. What input parameters will your model require?

*Bonus, if you have time:* What data sources might you use to acquire these input parameters?