

# The concept of simulation

Simulations are representations of reality providing a **carefully proscribed extension of cognition**. They comprise:

- Degrees of freedom; and
- Laws of interaction and change.

Why do we perform simulations?

- Curiosity: If I change  $X$ , does  $Y$  also change? Why?
- Quantity: There are a lot of  $X$ 's; which ones matter? Why?