

## WHAT IS R?

The reproductive number  $R$  describes the average number of individuals that a person infected with a particular pathogen infects. It depends on how that pathogen is transmitted as well as how often people come into contact with each other—factors that could vary depending on a pathogen's strain and on the time and location of an outbreak. Scientists typically distinguish between  $R_0$ , the basic reproductive number that describes disease transmission at the very beginning of an outbreak in a fully susceptible population, and  $R_e$ , the effective reproductive number that describes transmission once measures such as social distancing or vaccination campaigns have been introduced.  $R_e$  is typically much lower than  $R_0$ .

