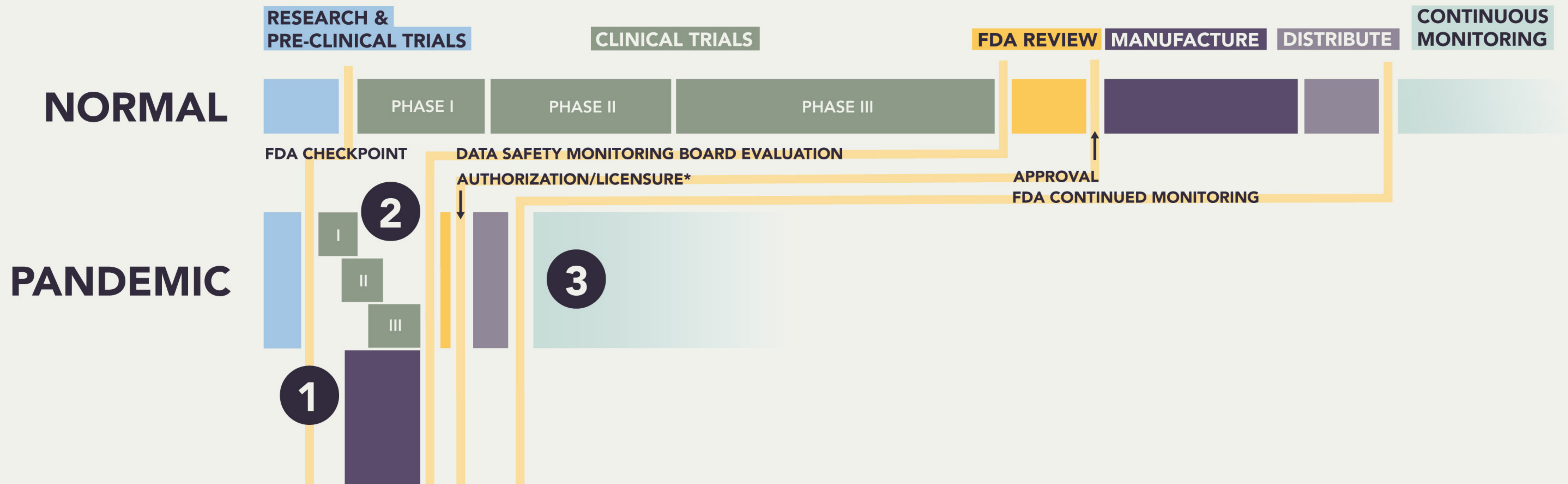


Vaccine Development Process



*During the pandemic, COVID-19 vaccines may be authorized by FDA for public use under an emergency use authorization process or via full licensure.

HOW DO WE KNOW IT'S SAFE AND EFFECTIVE?

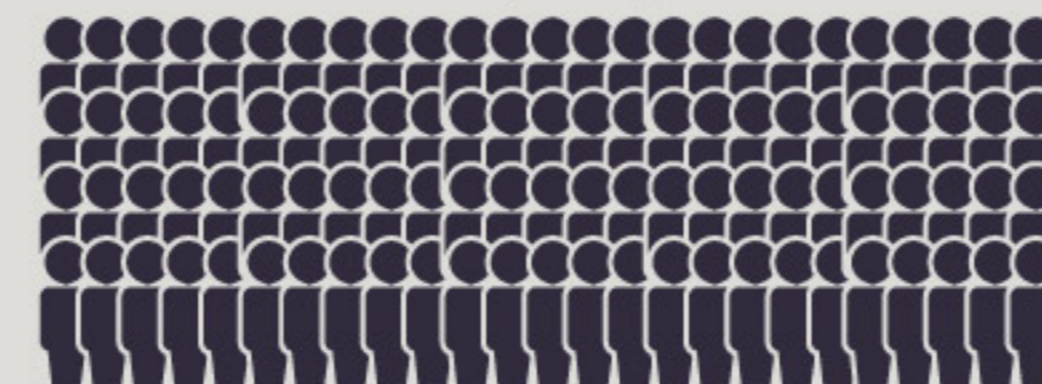
1 SAFETY CHECKS
A COVID-19 vaccine needs to pass all the same safety requirements as a typical vaccine. After a safety review by FDA at the initial checkpoint determines no issues, each COVID-19 vaccine is allowed to be studied in humans for the first time in a Phase I trial.

2 CLINICAL TRIALS
The large number of volunteers in each COVID-19 vaccine phase III study made it easier to identify possible side effects and assess how well the vaccine prevents COVID-19.

Phase I
20 to 100 people



Phase II
Hundreds of people



3 MONITORING
The FDA monitors for long-term effects and safety of a vaccine during and after its distribution.

