

Facility engineering design  
& Detector design

Construction &  
Commissioning

Observations  
& Operations

Installation &  
Commissioning

Observations  
& Operations

### Stage 1 R&D

larger test masses  
& suspensions

seismic isolation  
improvements

squeezing  
improvements

### Stage 2 R&D

high-power  
laser

high-efficiency  
photodetectors

coatings for  
new wavelength

cryogenics

interferometer prototype  
testing

large silicon test  
masses & coatings

Stage 2 detector  
fabrication

2020 2022 2024 2026 2028 2030 2032 2034 2036 2038 2040 2042 2044 2046

Year