Time to achieve Science Objectives — CE40+CE20+A$^\sharp$ — CE40+2A$^\sharp$ — A$^\sharp$ (HLA)

BHs and NSs Throughout Cosmic Time	Detect 500 BNS mergers at z > 5	Unachievable
	Detect 500 BBH mergers at z > 10 ($\Delta m_1/m_1 < 20\%$)	Unachievable
MMA and Dynamics of Dense Matter	Locate 100 BNS mergers within $\Delta\Omega_{90} < 1\mathrm{deg}^2$	
	Constrain Nuclear Equation of State (NS radius < 10 m)	50 years
	Map 500 GRBs to progenitors ($z > 2$; $\Delta\Omega < 100\mathrm{deg}^2$)	Unachievable
	Detect 10 BNS mergers 300s before merger ($\Delta\Omega_{90} < 10\mathrm{deg}^2$)	>100 years
New Probes of Extreme Astrophysics	Detect source with postmerger SNR > 5	40 years
	Detect 50 millisecond pulsars	
Fundamental Physics and Cosmology	Measure H_0 to within 0.2%	3600 years
	Detect 10 BBH mergers with SNR > 1000	1000 years
Early Universe	Detect Stochastic Background for $\Omega_{\mathrm{GW}} < 5e{-}12$	40 years

Time [Years]   1   10   20