Time to achieve Science Objectives Detect 100 BNS mergers for z > 2 with $\Delta\Omega < 100$ Unachievable BHs and NSs Throughout Cosmic Time Detect 10 BNS mergers for z > 5Unachievable Detect 5000 BBH mergers for z > 5263 years Constrain NS radius to within 10 m 50 years Detect 500 BNS mergers with SNR > 100 833 years Locate 100 BNS mergers within 1 sq. deg. MMA and Dynamics of Dense Matter Mapping 100 GRBs to progenitors Unachievable Detect 100 BNS mergers 5 mins before merger New Probes of Extreme Astrophysics Detect 5 sources with postmerger SNR > 15 200 years Detect 10 sources for continuous waves 200 years 1000 BBH with post-inspiral SNR > 100 Fundamental Physics and Precision Cosmology 167 years **Facility** Measure H_0 to within 1% Lifetime A# (HLA) CE+2A[‡] 1 10 25 Time [Years]