Mar 2021	Readout Electronics Timeline Estimate	'21 Q1	'21 Q2	'21 Q3	'21 Q4	'22 Q1	'22 Q2	'22 Q3	'22 Q4	'23 Q1	'23 Q2	'23 Q3	'23 Q4	'24 Q1	'24 Q2	'24 Q3	'24 Q4
					FY22	FY22	FY22	FY22	FY23	FY23	FY23	FY23	FY24	FY24	FY24	FY24	
Simulation/Reconstruction	Simulation: Prototype, beam line, cosmic ray setup (CRT)	■	■	■	■	■	■										
	Simulation: Lens characterization	■															
	Simulation: Explore hpDIRC design options (e/π,π/K)	■	■	■	■	■	■	■	■								
	Simulation: Cost/performance optimization	■	■	■	■	■	■										
	Reconstruction: reconstruction optimization / ML	■	■	■	■	■											
hpDIRC system prototype	Transfer of PANDA prototype from GSI to CUA/SBU	■	■														
	Design and construction of CRT	■			■	■											
	Initial protoype commissioning in cosmic ray setup (CRT)					■											
	Upgrade of sensors and readout electronics					■	■										
	Commissioning of upgraded prototype, CRT data analysis							■	■	■	■	■	■	■	■		
	Optional beam test at Fermilab									▨	▨						
	Beam test data analysis										▨	▨	▨	▨			
ToT based readout	Reference readout based on MAROC3 (F/E) + SSP (DAQ)	■	■	■	■												
	Validation of ALCOR architecture (1st production samples)	■															
	Basic readout chain from ALCOR+ARCADIA developments	■	■	■													
	Develop a portable DAQ system					■	■	■	■								
	Test of streaming readout									■	■	▨	■				
	Upgraded ALCOR readout chain for dRICH					■	■	▨									
	Submission of a custom ALCOR design							■	▨								
	Optimize ALCOR with proper signal preconditioning									■	■	■					
	Integration of SiPM readout with sensor cooling										■	■		■			
	Engineering of SiPM readout and services											■	■	■	■		
Sensors and Electronics	collaboration effort within eRD14	■	■	■	■	■	■	■	■	■	■						
TDR									■	▨	▨	▨		■	■		