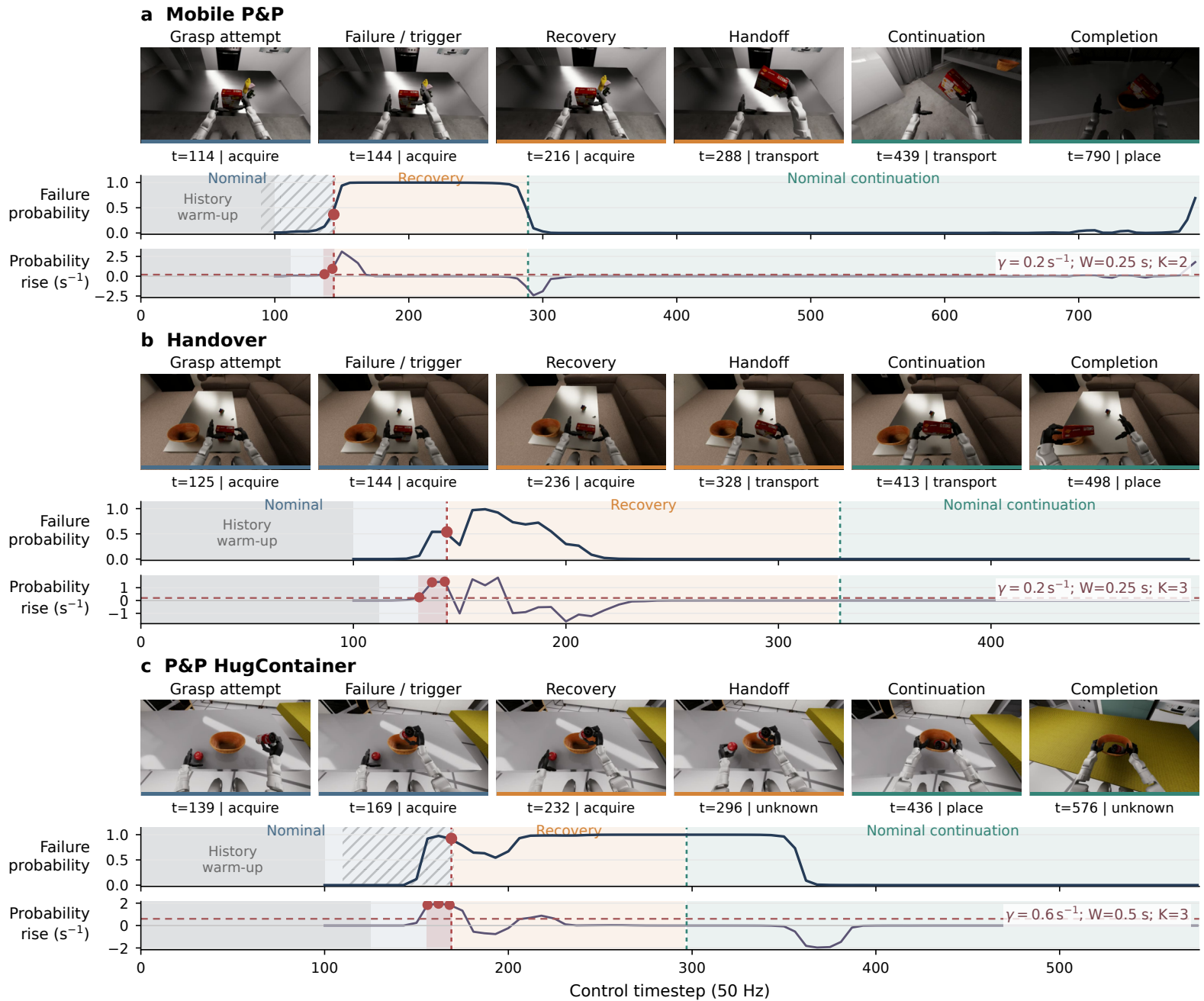

a Mobile P&P
Grasp attempt
Failure / trigger
Recovery
Handoff
Continuation
Completion
t=114 | acquire
t=144 | acquire
t=216 | acquire
t=288 | transport
t=439 | transport
t=790 | place
Nominal
History warm-up
Recovery
Nominal continuation
Failure probability
1.0
0.5
0.0
Probability rise (s^{-1})
2.5
0.0
−2.5
$\gamma = 0.2\,s^{-1}$; W=0.25 s; K=2
0
100
200
300
400
500
600
700
b Handover
Grasp attempt
Failure / trigger
Recovery
Handoff
Continuation
Completion
t=125 | acquire
t=144 | acquire
t=236 | acquire
t=328 | transport
t=413 | transport
t=498 | place
Nominal
History warm-up
Recovery
Nominal continuation
Failure probability
1.0
0.5
0.0
Probability rise (s^{-1})
1
0
−1
$\gamma = 0.2\,s^{-1}$; W=0.25 s; K=3
0
100
200
300
400
c P&P HugContainer
Grasp attempt
Failure / trigger
Recovery
Handoff
Continuation
Completion
t=139 | acquire
t=169 | acquire
t=232 | acquire
t=296 | unknown
t=436 | place
t=576 | unknown
Nominal
History warm-up
Recovery
Nominal continuation
Failure probability
1.0
0.5
0.0
Probability rise (s^{-1})
2
0
−2
$\gamma = 0.6\,s^{-1}$; W=0.5 s; K=3
0
100
200
300
400
500
Control timestep (50 Hz)