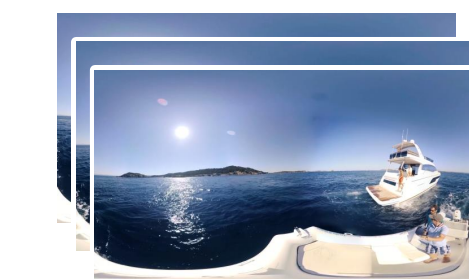



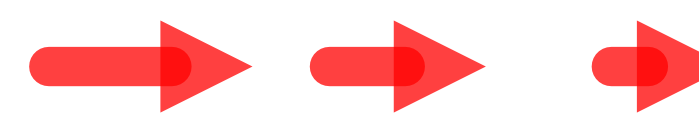
Input:

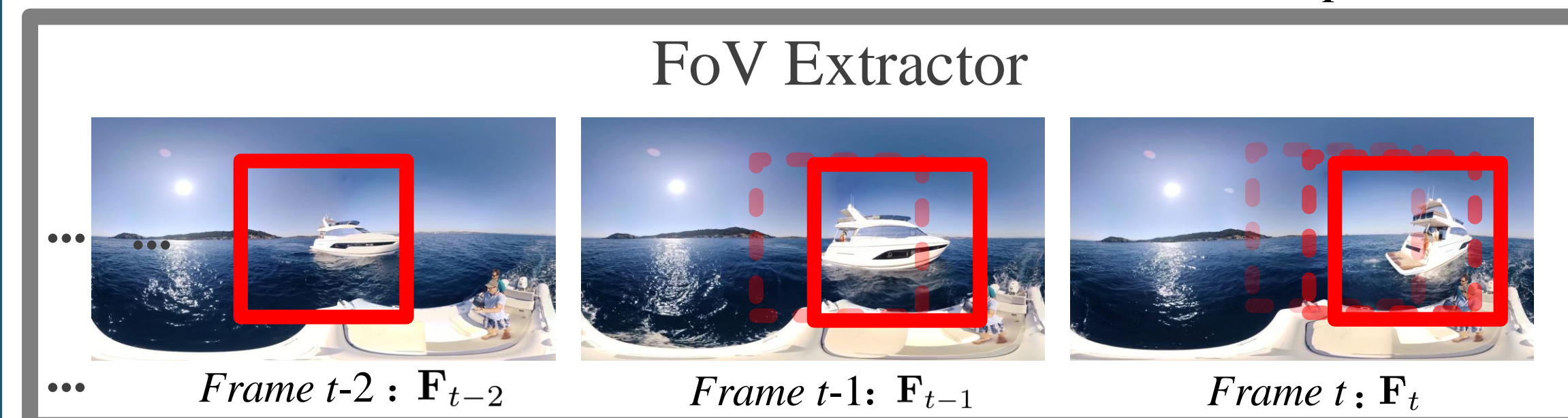
Panoramic Video
Frames $\{\mathbf{F}_t\}_{t=1}^T$



DRL Workflow 1

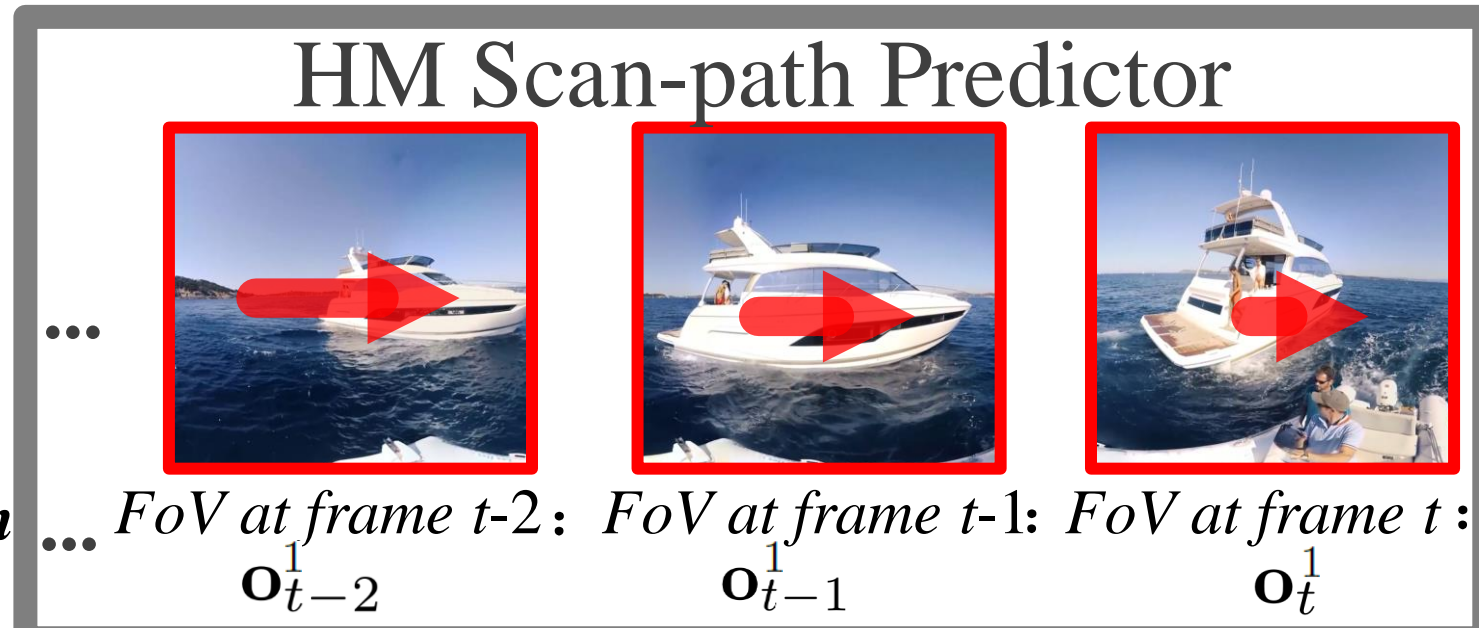
Observations $\{\mathbf{o}_t^1\}_{t=1}^T$: 
previous current FoV

Actions $\{(\hat{\alpha}_t^1, \hat{\nu}_t^1)\}_{t=1}^T$: Predicted HM Scan-path 







Action
 $(\hat{\alpha}_t^1, \hat{\nu}_t^1)$

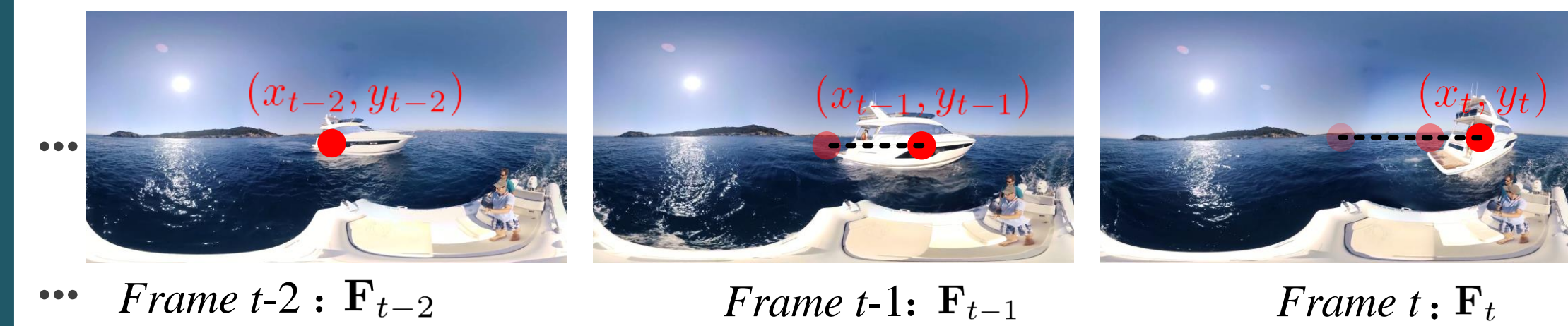
Observation
 \mathbf{o}_t^1



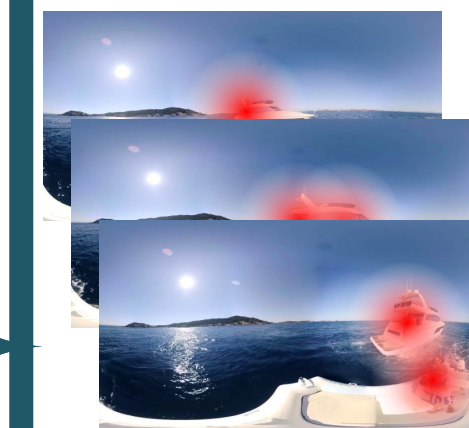
HM Position Prediction

HM Positions $\{(\hat{x}_t^1, \hat{y}_t^1)\}_{t=1}^T$:
previous  current 


HM Scan-paths $\{(\hat{\alpha}_t^1, \hat{\nu}_t^1)\}_{t=1}^T$:
previous  current 

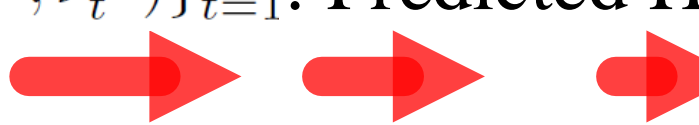


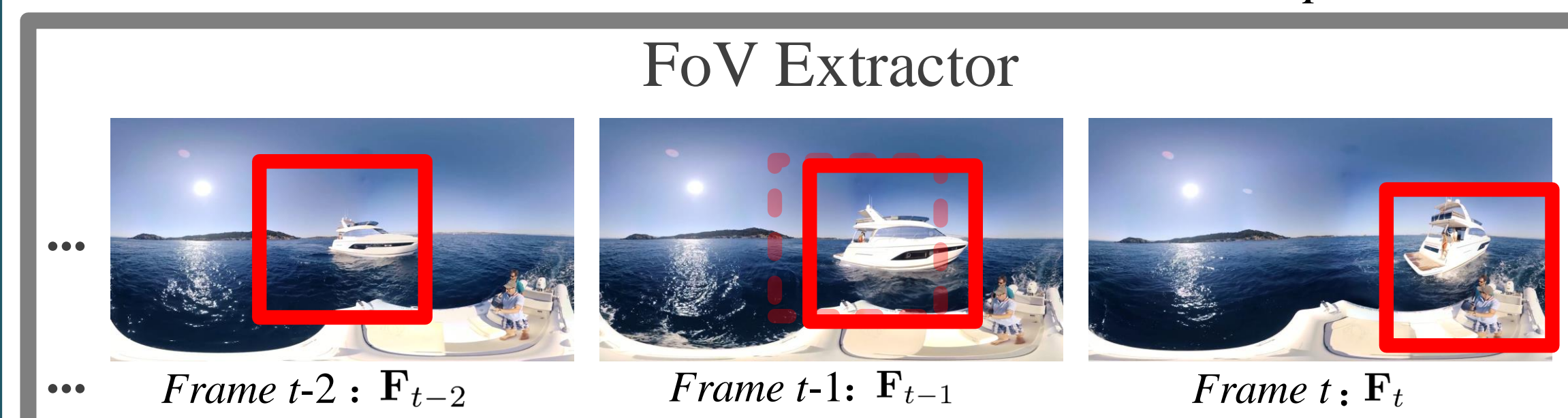
**HM Position
Integration &
Smoothing**



DRL Workflow N

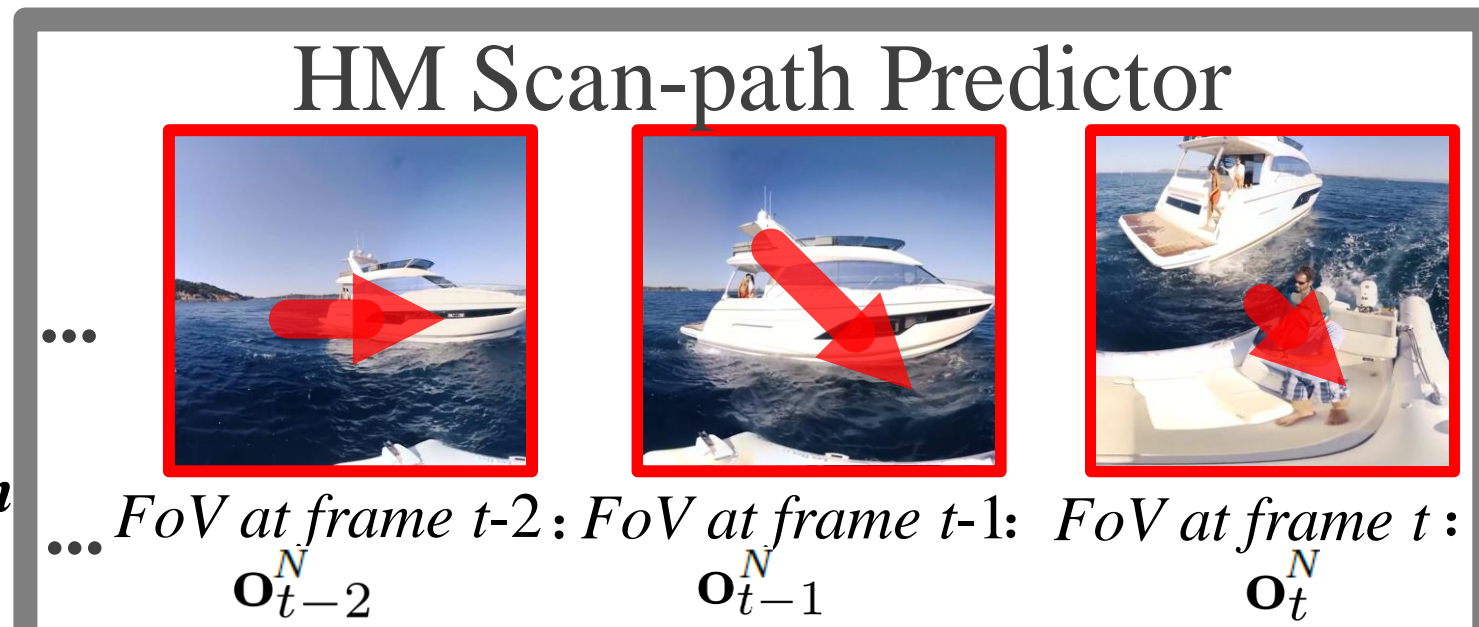
Observations $\{\mathbf{o}_t^N\}_{t=1}^T$: 
previous current FoV

Actions $\{(\hat{\alpha}_t^N, \hat{\nu}_t^N)\}_{t=1}^T$: Predicted HM Scan-path 



Action
 $(\hat{\alpha}_t^N, \hat{\nu}_t^N)$

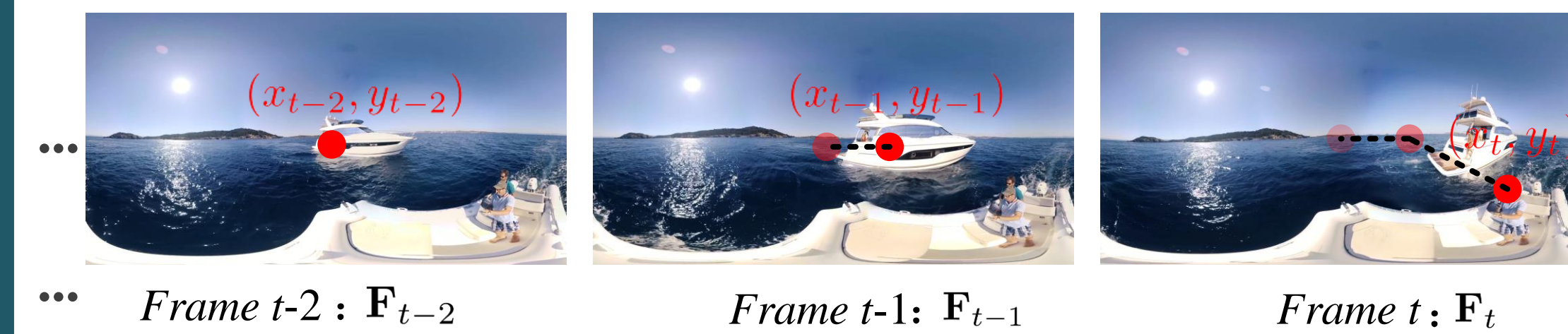
Observation
 \mathbf{o}_t^N



HM Position Prediction

HM Positions $\{(\hat{x}_t^N, \hat{y}_t^N)\}_{t=1}^T$:
previous  current 

HM Scan-path $\{(\hat{\alpha}_t^N, \hat{\nu}_t^N)\}_{t=1}^T$:
previous  current 



Output:

HM Maps \mathbf{H}_{t-2} \mathbf{H}_{t-1} \mathbf{H}_t