## Figures

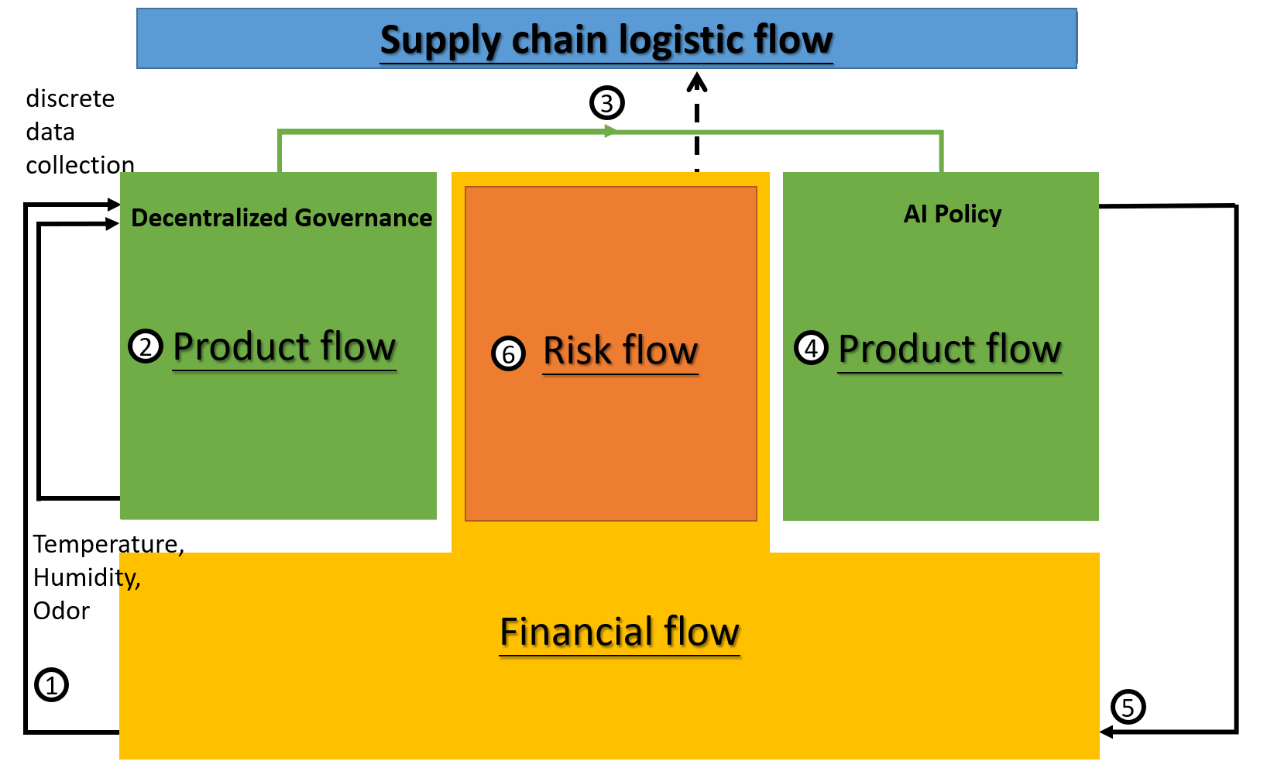


Figure 1a. Double-helix architecture based on AWF structure

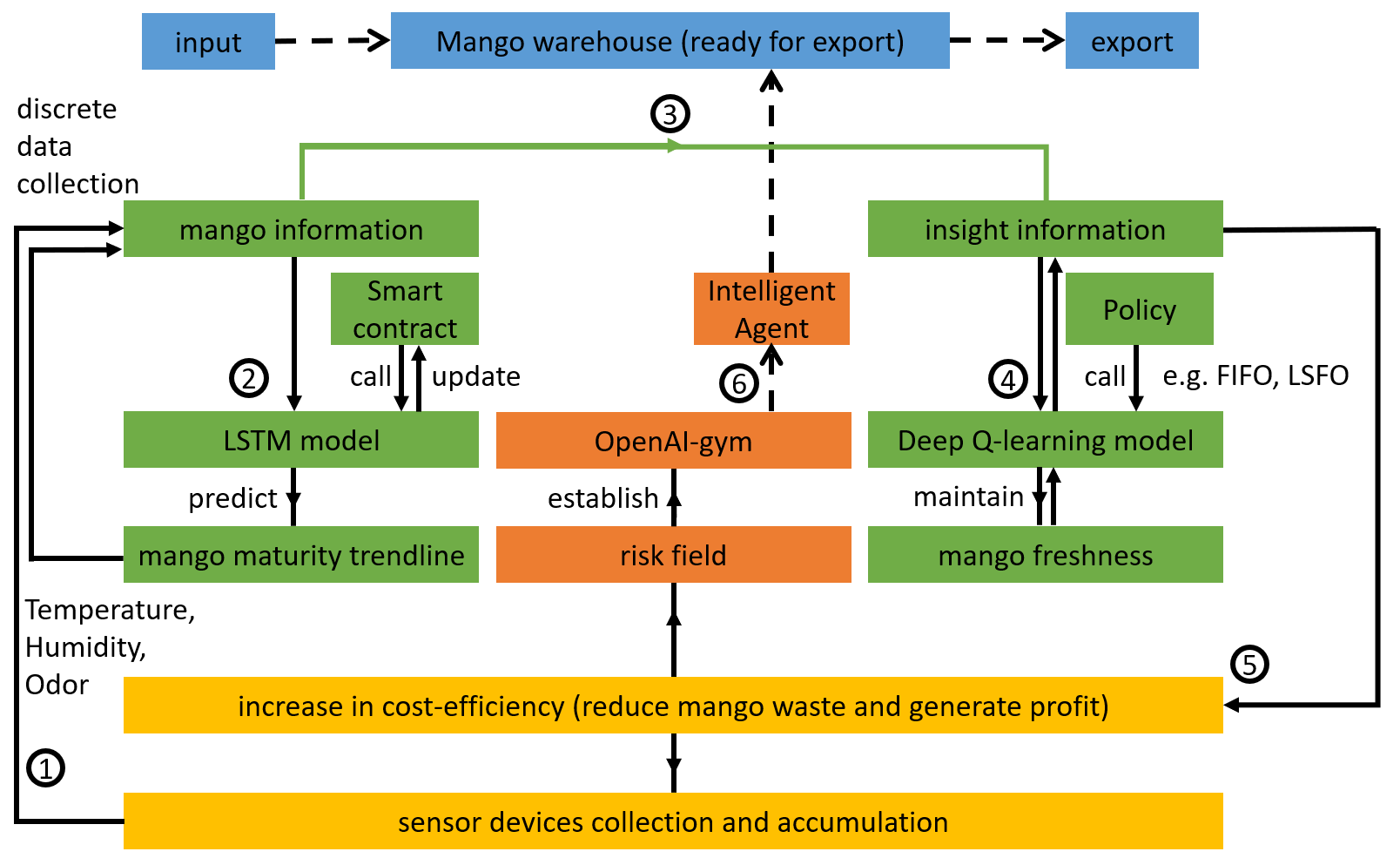


Figure 1b. Double-helix architecture based on AWF structure

一張含有 室內, 綠色, 水果, 蔬菜 的圖片

自動產生的描述一張含有 室內, 牆, 蔬菜 的圖片

自動產生的描述一張含有 室內, 牆 的圖片

自動產生的描述

Figure 2. Underripe mangoes (left), and overripe mangoes (right)

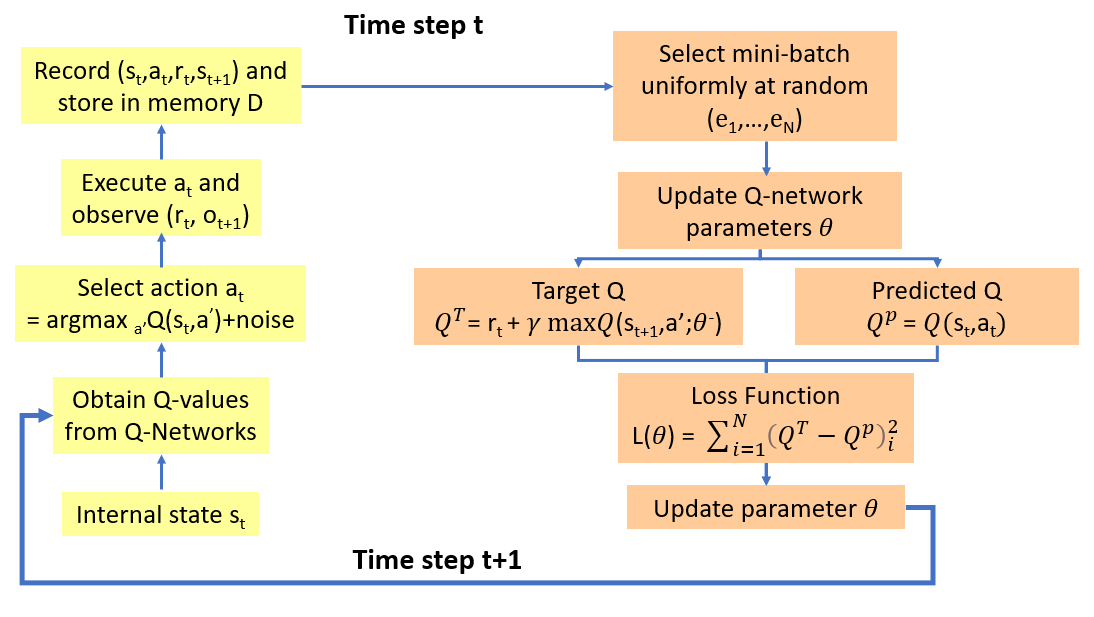


Figure 3. Deep Q-learning model

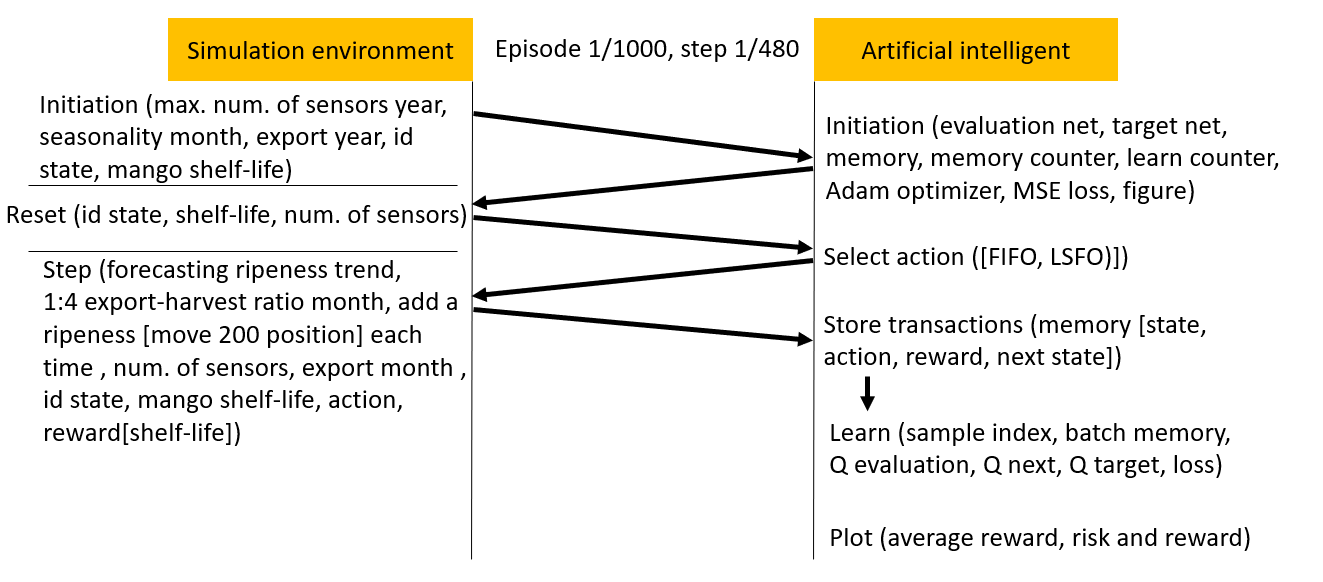


Figure 4a. Simulation flow in episode 1, step 1



Figure 4b. Simulation flow in episode 1, steps 2–479

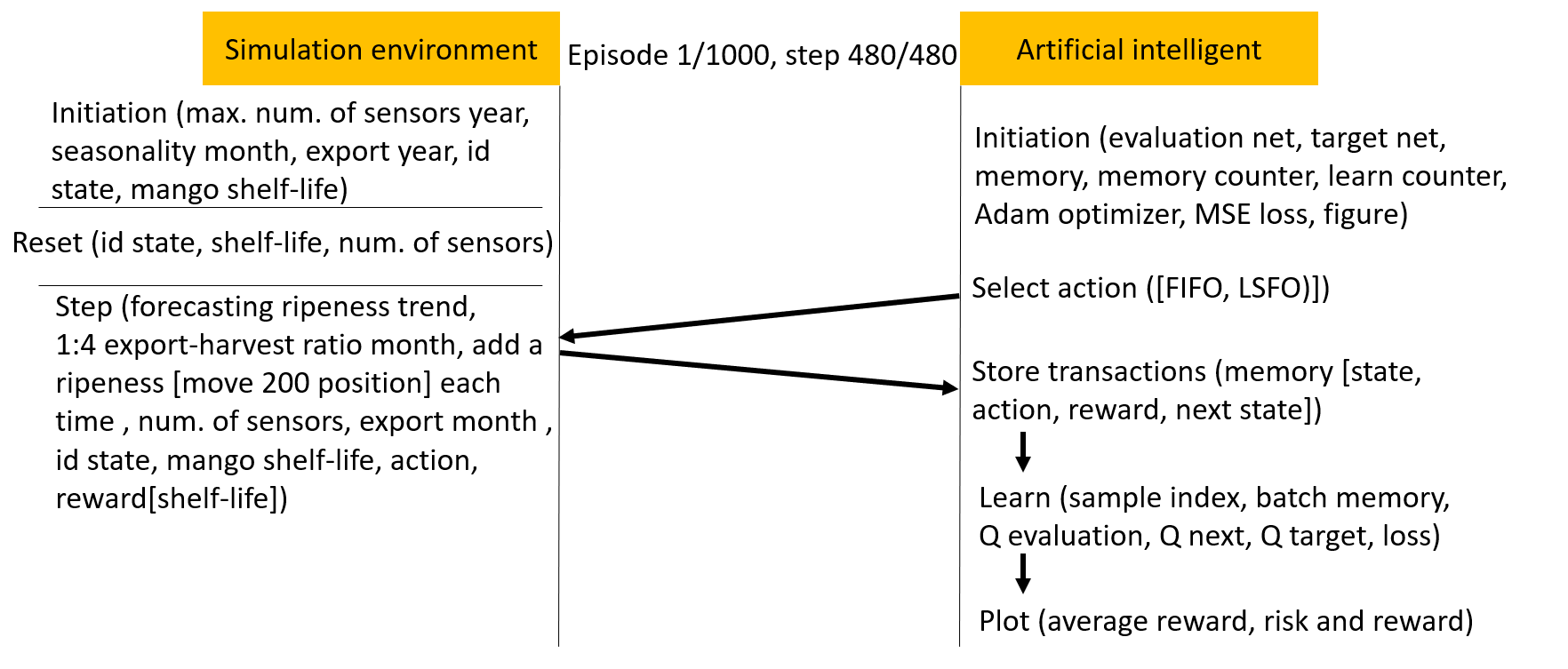


Figure 4c. Simulation flow in episode 1, step 480.

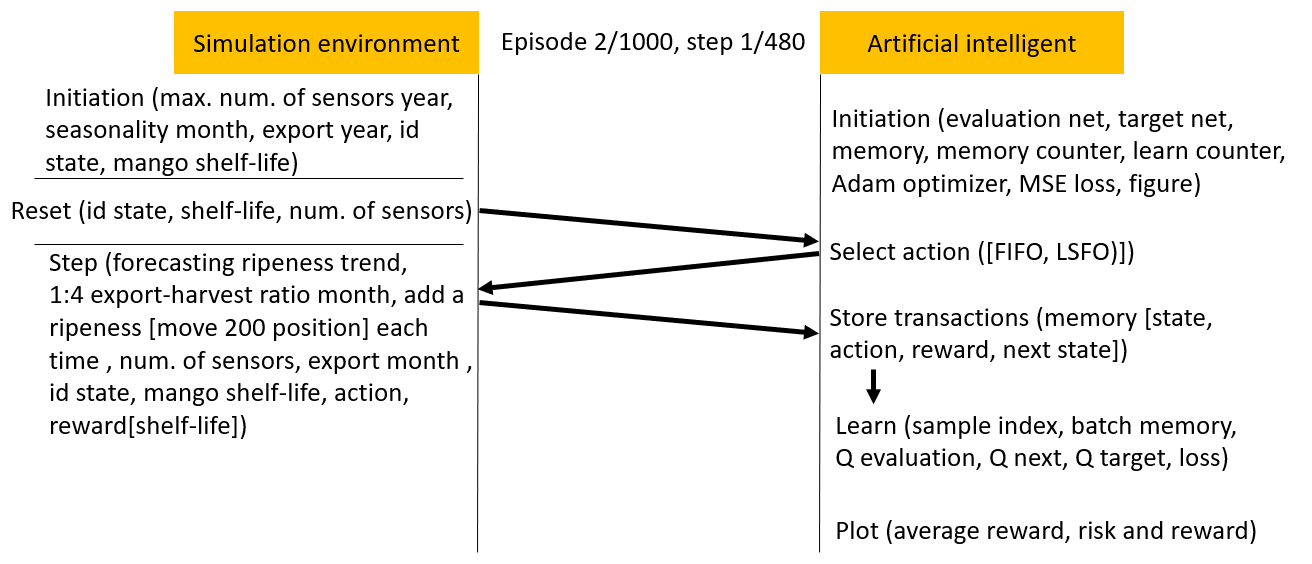


Figure 4d. Simulation flow in episode 2, step 1

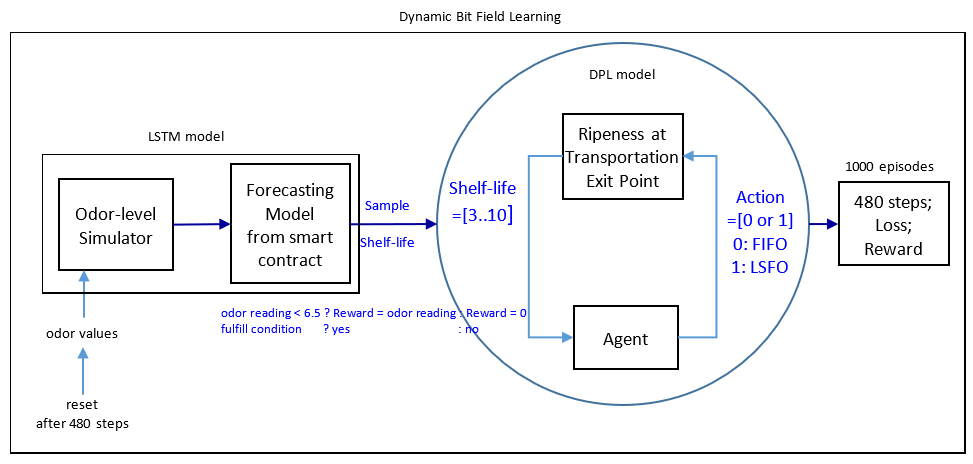


Figure 5. Deep Q-learning with simulated forecast scenarios

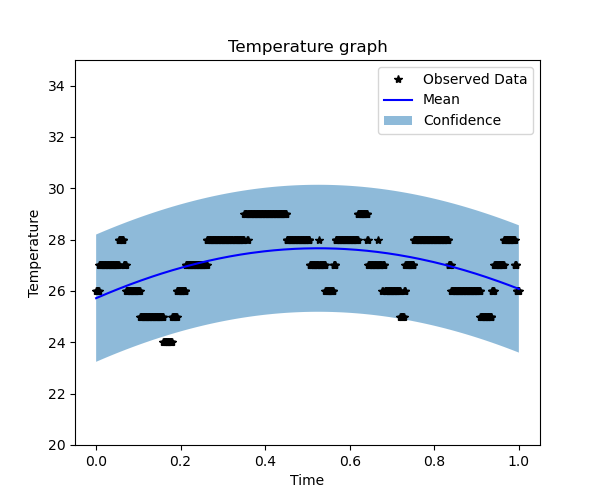
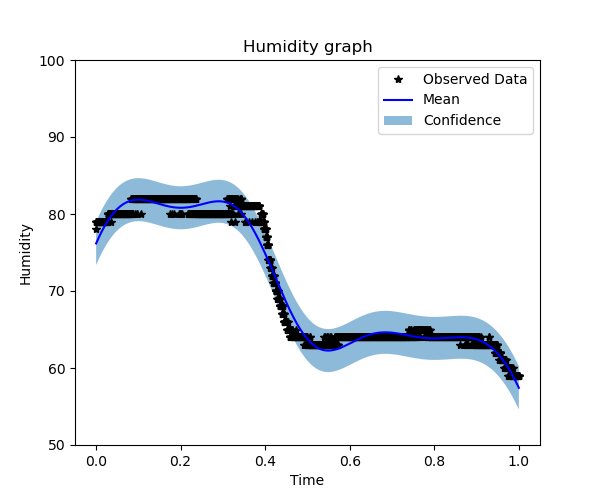


Figure 6. Temperature (left) and humidity (right) boundaries for the forecasting model

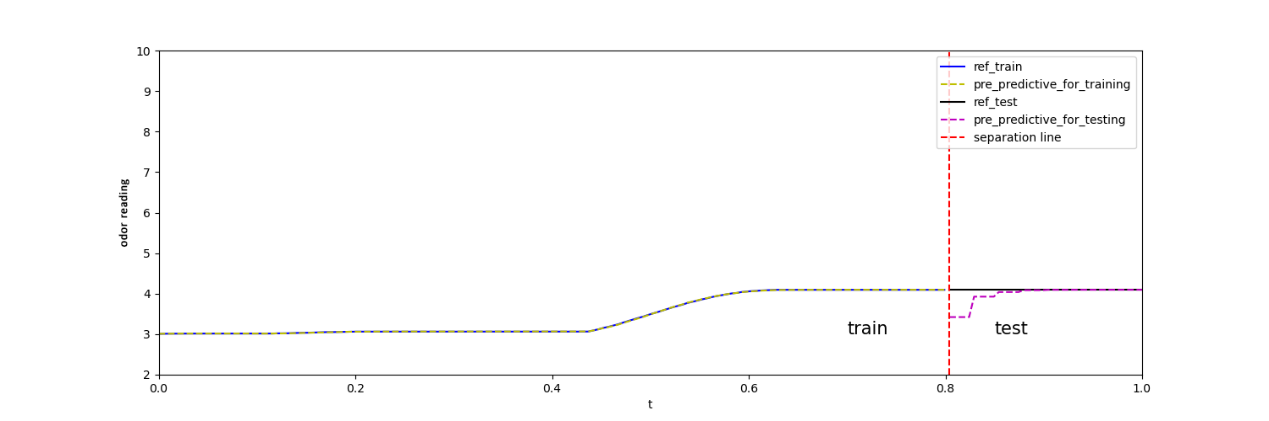


Figure 7a. Total of 200 odor-sampling points in the forecasting model.

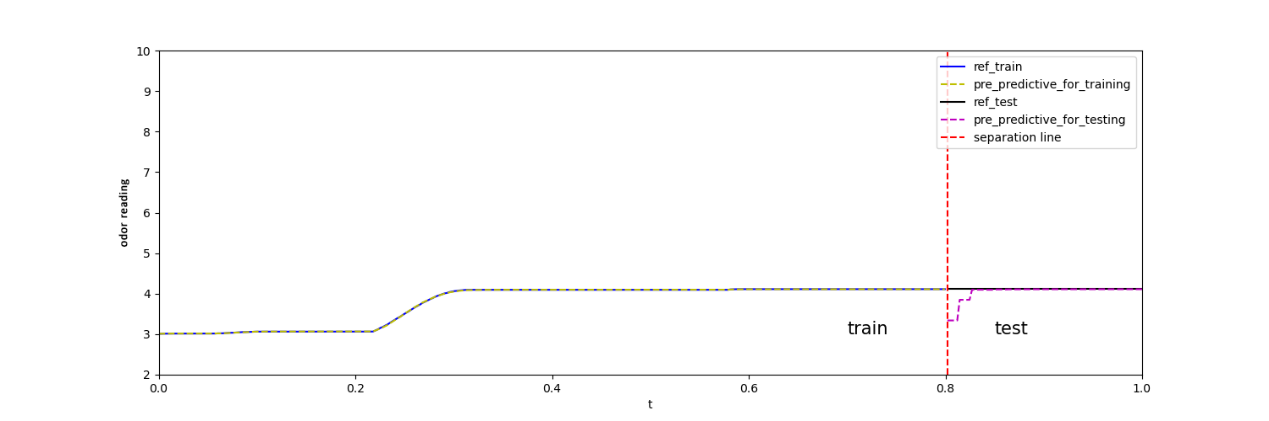


Figure 7b. Total of 400 odor-sampling points in the forecasting model.

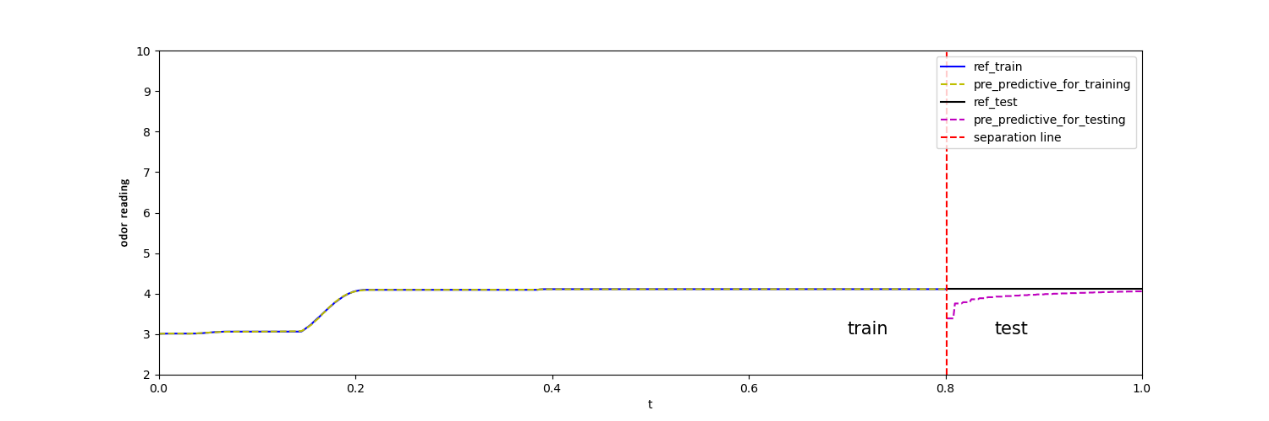


Figure 7c. Total of 600 odor-sampling points in the forecasting model.

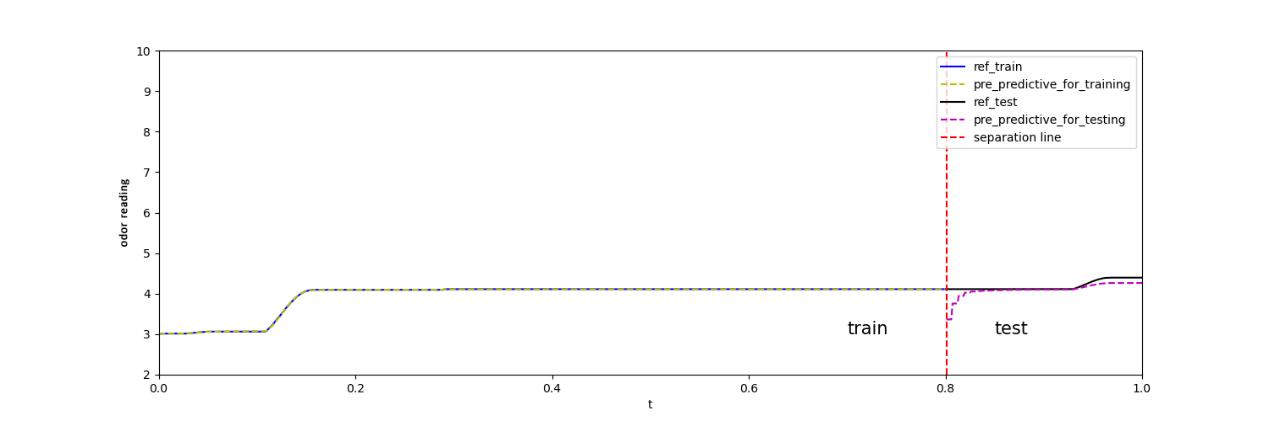


Figure 7d. Total of 800 odor-sampling points in the forecasting model.

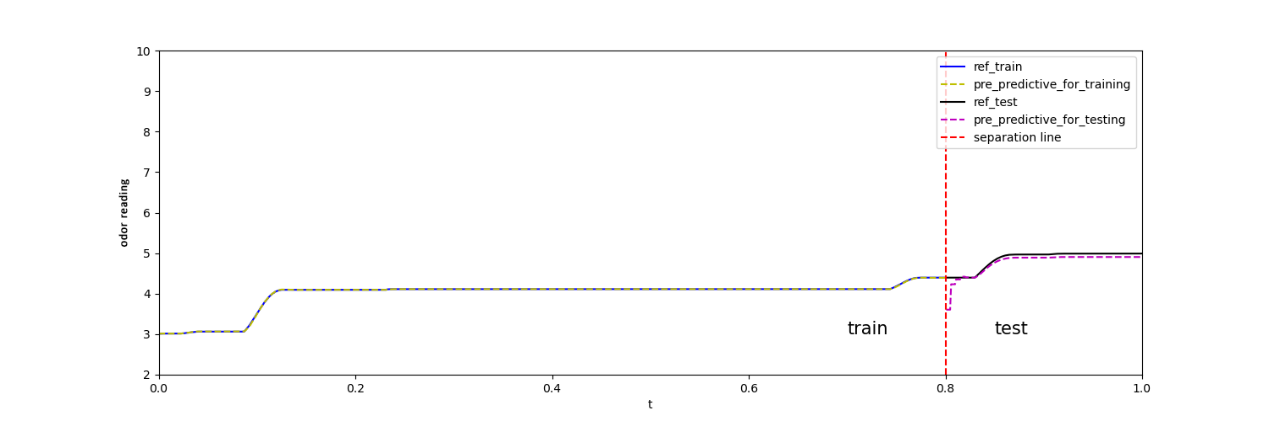


Figure 7e. Total of 1000 odor-sampling points in the forecasting model.

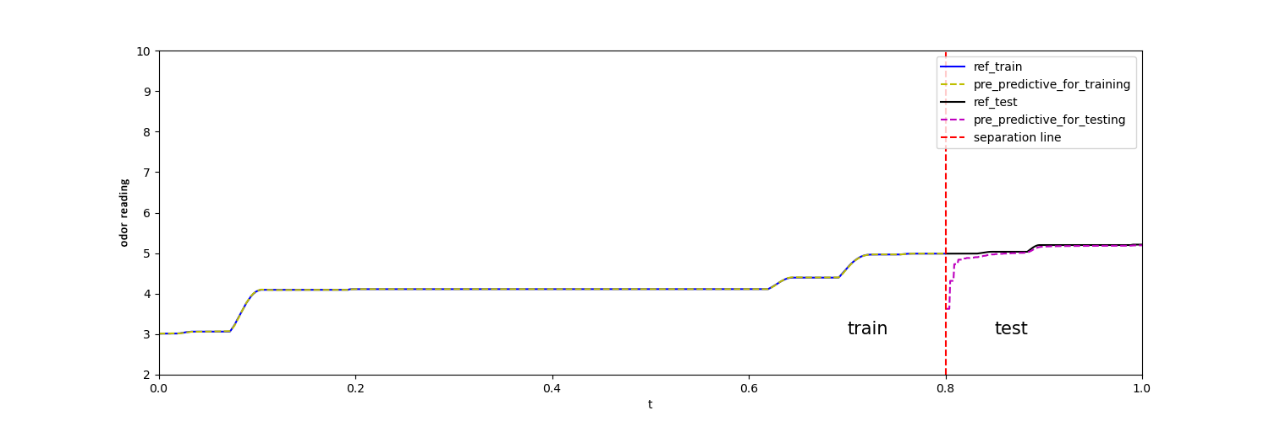


Figure 7f. Total of 1200 odor-sampling points in the forecasting model.

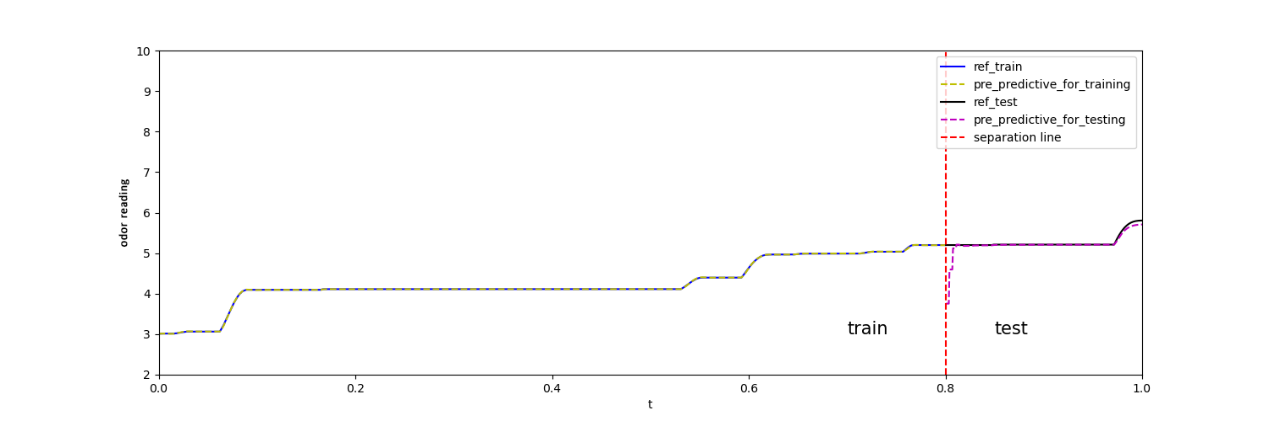


Figure 7g. Total of 1400 odor-sampling points in the forecasting model.

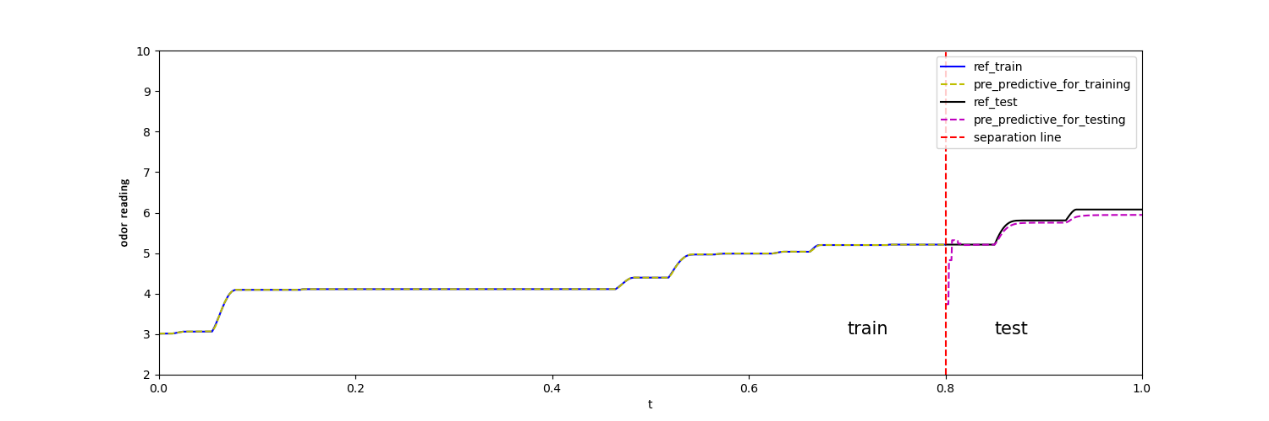


Figure 7h. Total of 1600 odor-sampling points in the forecasting model.

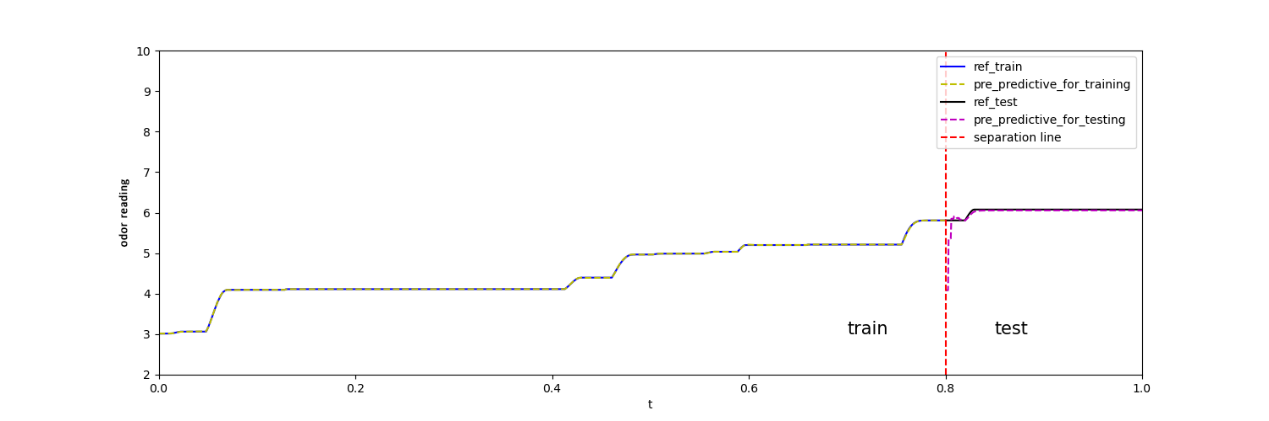


Figure 7i. Total of 1800 odor-sampling points in the forecasting model.

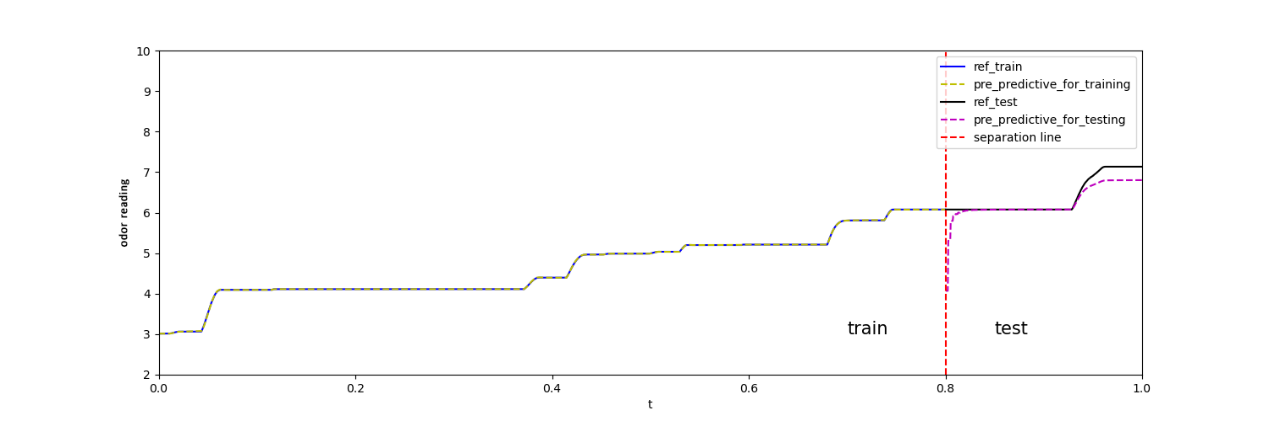


Figure 7j. Total of 2000 odor sampling points in the forecasting model

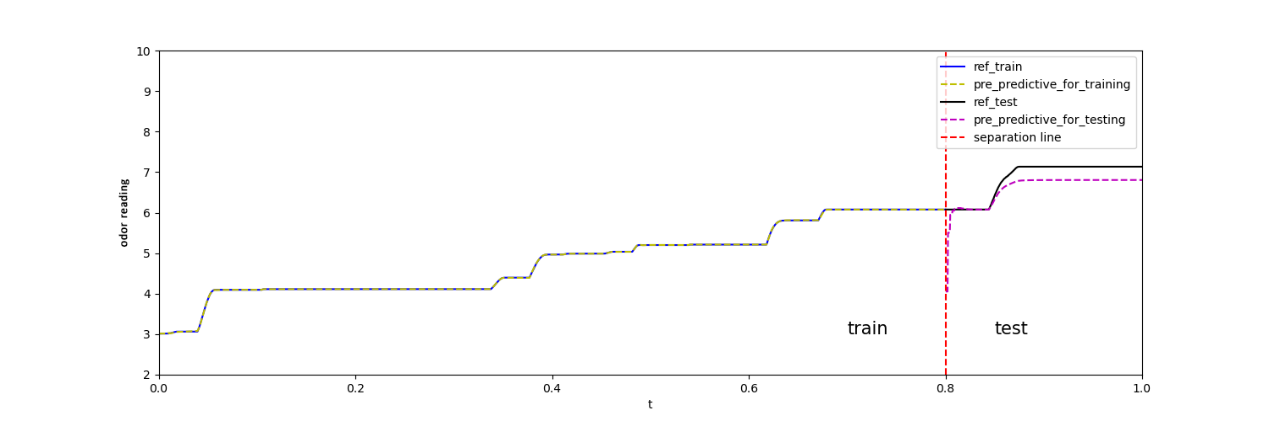


Figure 7k. Total of 2200 odor sampling points in the forecasting model

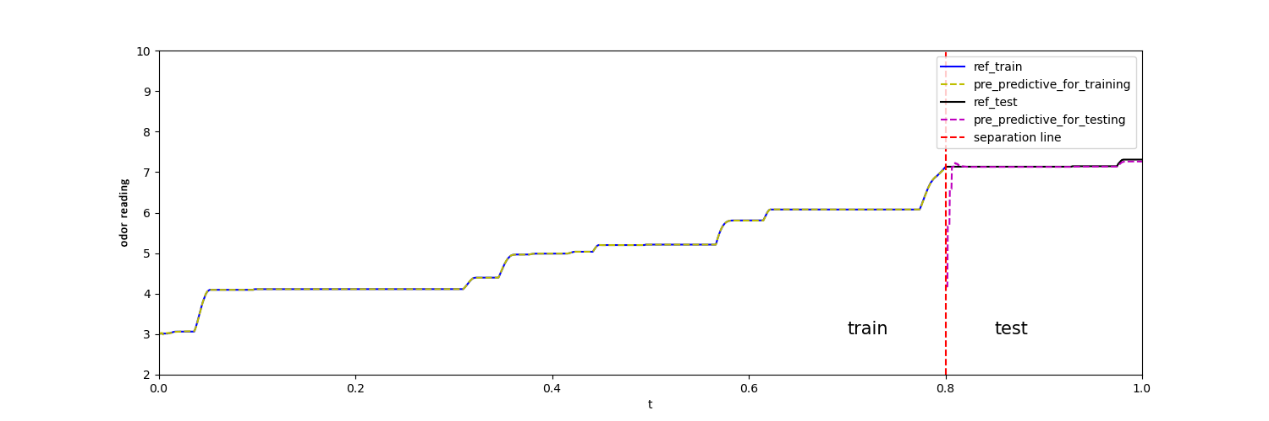


Figure 7l. Total of 2400 odor-sampling points in the forecasting model.

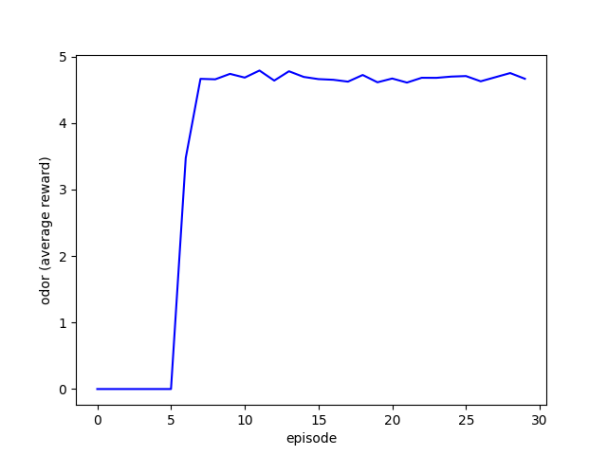
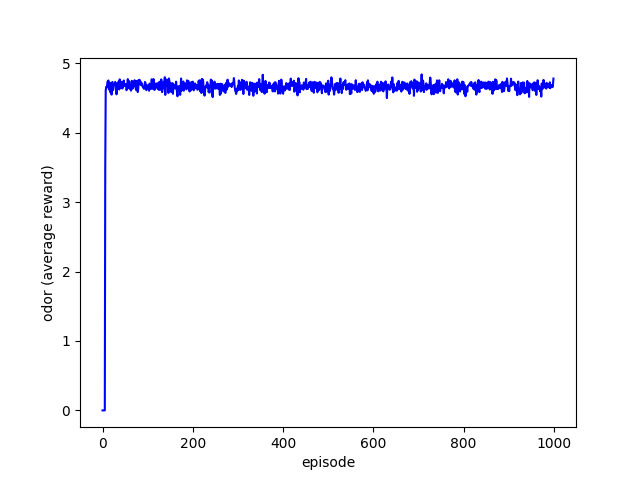
 

Figure 8. Agent’s average reward at 30 (left) and 1000 episodes (right)