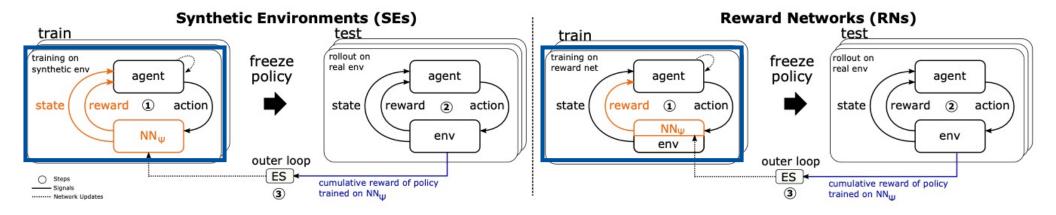




Warm-started Environment Learning

Work by Ferreira et al. (2022) is computationally expensive due to RL training loop:



- → Do we really need full agent trainings early on?
- → What if we just do exploration to warm-start ES?





Two phases of Environment Learning

1) Exploration

- Use state-novelty based approaches such as RND, NovelD, E3B on synthetic env
- Track exploration trajectories and apply same action sequence to real env
- Fitness ~ accuracy of state and reward predictions

2) Refinement

- Final exploration population is initial population of the original environment learning process
- Hopefully: Faster convergence