

Deep Reinforcement Learning with Plasticity Injection

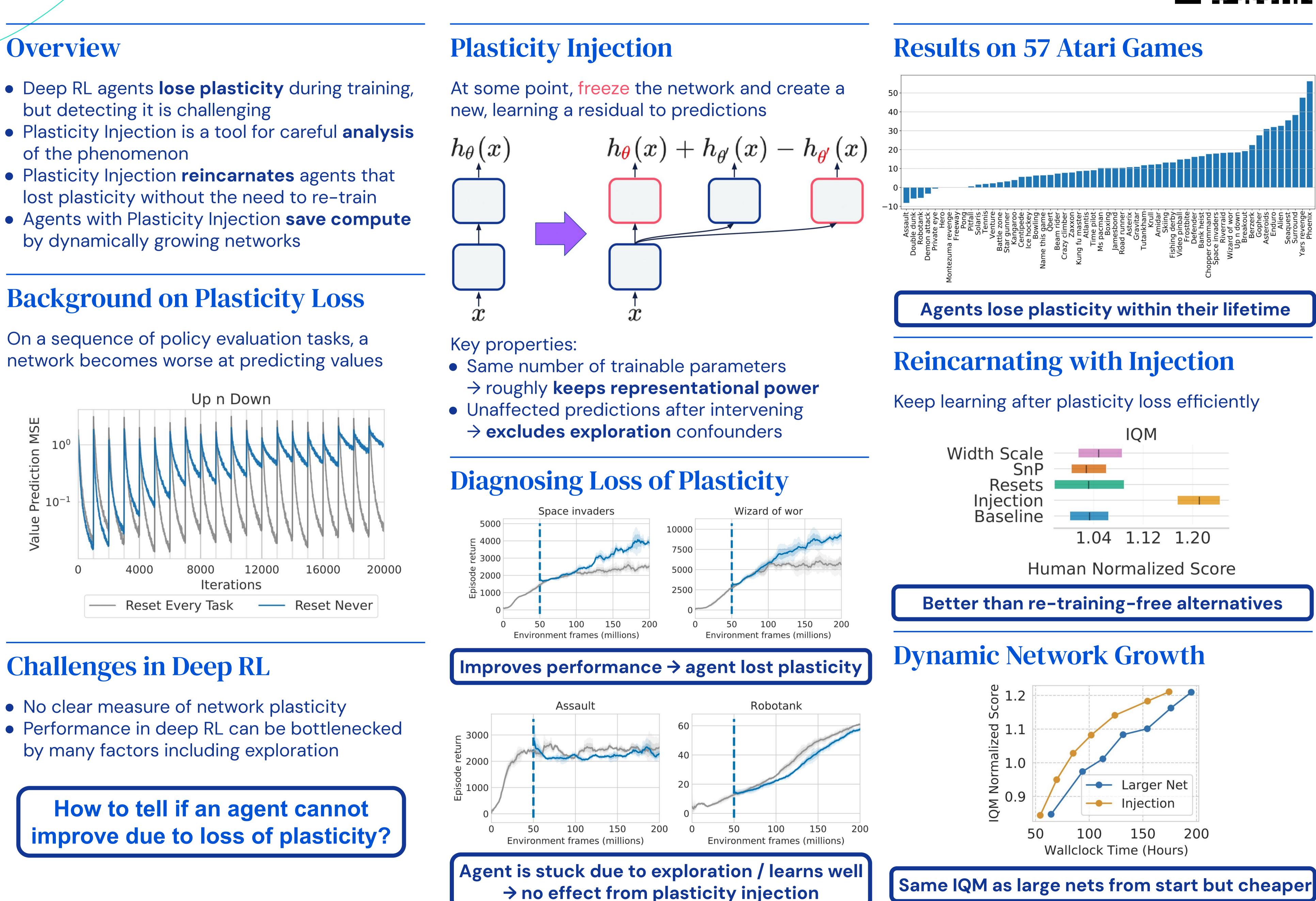
Evgenii Nikishin, Junhyuk Oh, Georg Ostrovski, Clare Lyle, Razvan Pascanu, Will Dabney, André Barreto

Overview

- but detecting it is challenging
- of the phenomenon
- Plasticity Injection reincarnates agents that lost plasticity without the need to re-train
- by dynamically growing networks

Background on Plasticity Loss

On a sequence of policy evaluation tasks, a network becomes worse at predicting values



Challenges in Deep RL

- No clear measure of network plasticity
- by many factors including exploration

DeepMind



