Single Task Learners Lifelong Learners Resource Growing Accuracy 0 0 5 . Accuracy 0 0 0 50 SynN SynF Model Zoo ProgNN Average Average **DF-CNN** 0.2 0.2 **EWC** Total Replay Partial Replay 0.1 chance 8 9 10 9 10 5 6 Number of tasks seen Number of tasks seen Resource Constrained SynF LwF O-EWC SI ER A-GEM (Resource o TAG None 0.2 (Resou chance 0.1 Number of tasks seen Number of tasks seen