S1: Student goes to class S2: Student goes to wedding S3: Student takes course S4: Teacher takes course S5: Professor teaches subject **x** S2 **x** S2 ConceptNet **x** S1 **x** S1 **x** S3 **x** S3 **x** S4 **x** S4 **x** S5 **x** S5 **(b)** (a) **x** S2 **x** S2 ATOMIC SB-SCK ConceptNet ATOMIC **x** S1 ConceptNet **x** S1 **x** S3 **x** S3 **x** S4 **x** S4 **x** S5 **x** S5 (c) (d) Loss_I + Loss_R Loss_{EA} LossEA → x -Lossc **→** Encoder $[w_1, w_2, .., w_n]$ Experience Replay

Domain Clusters

Memory