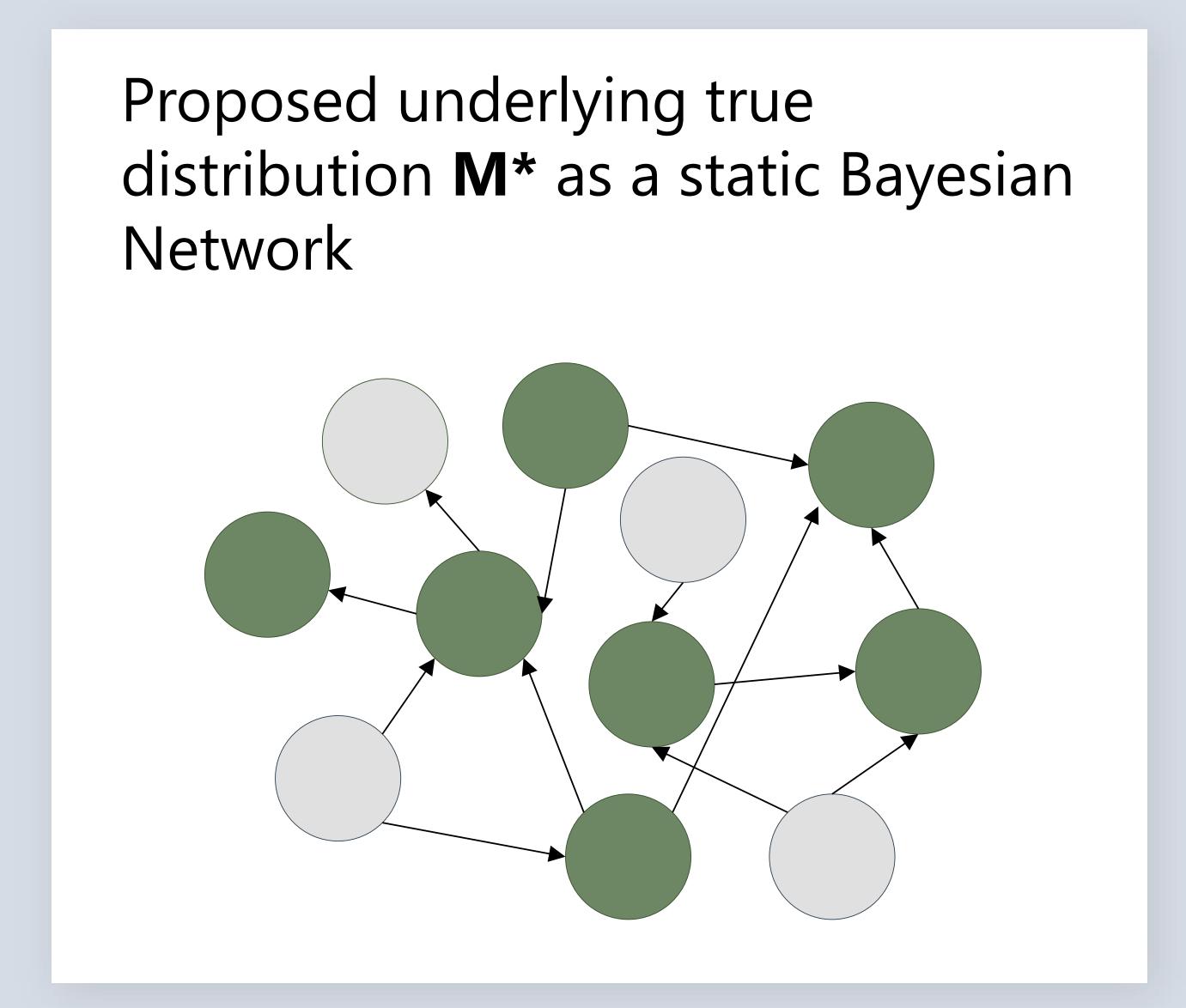
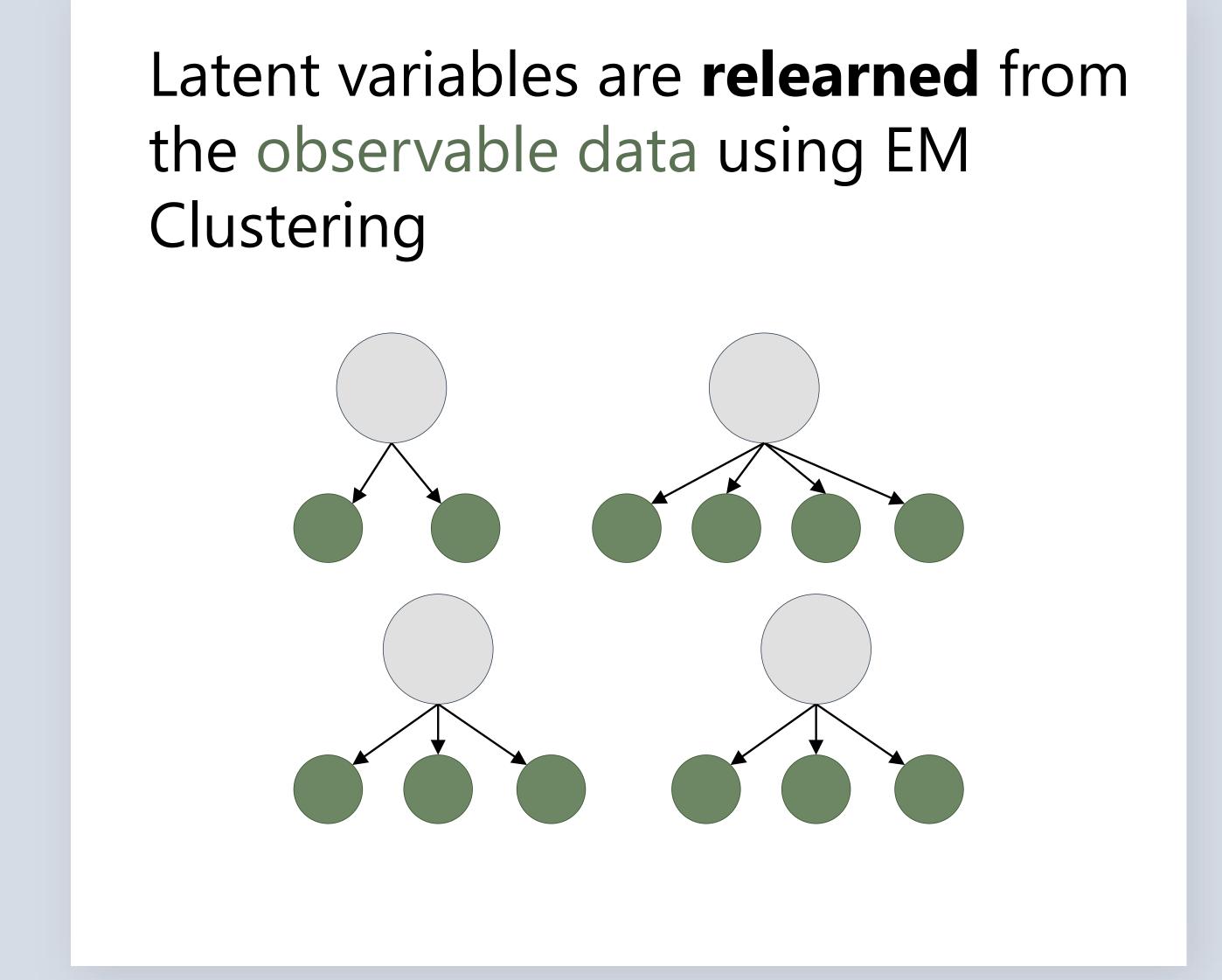
Expectation Maximization and Ensemble Structure Learning in the Presence of Latent Variables

USE CASE: The Identification and Progression Tracking of Alzheimer's Disease

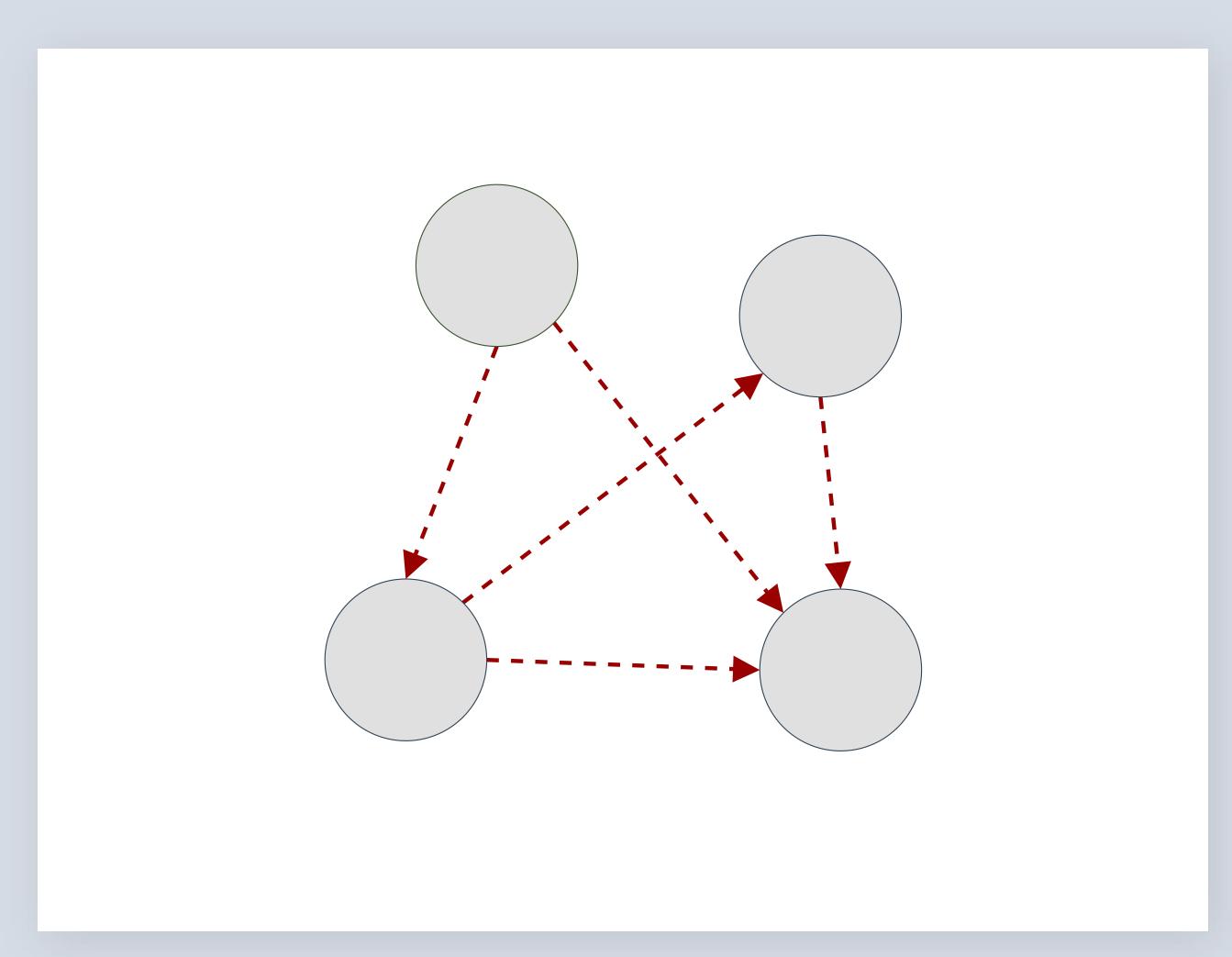
We want to handle missing or unmeasurable data and uncover the underlying distributional mechanisms that influence observed phenomena. Thus enhancing the interpretability of complex systems, for better informed decision-making and advancing domain-specific knowledge.

Method

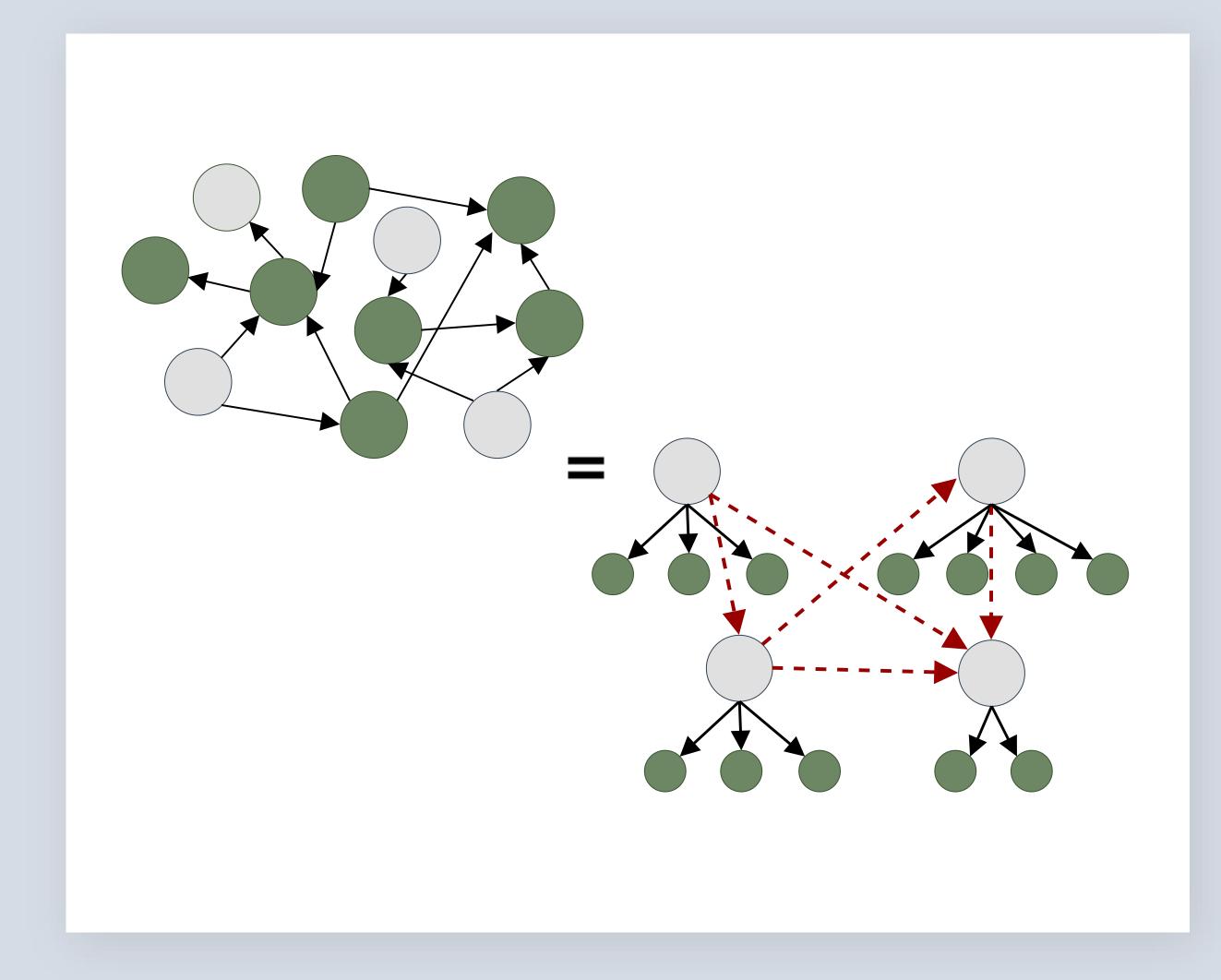




We learn the structure **M** between latent variables and estimate the parameters



We then compare the learned structure **M** against **M*** using KL Divergence





EM & STRUCTURE LEARNING IN THE PRESENCE OF LATENT VARIABLES BY LINDELANI DELISA DLAMINI