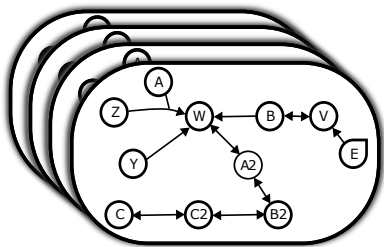


Description of  
the environment



Collection of  
metabolic networks



Reasoning-based  
model of interaction

Potentials of  
competition and  
cooperation