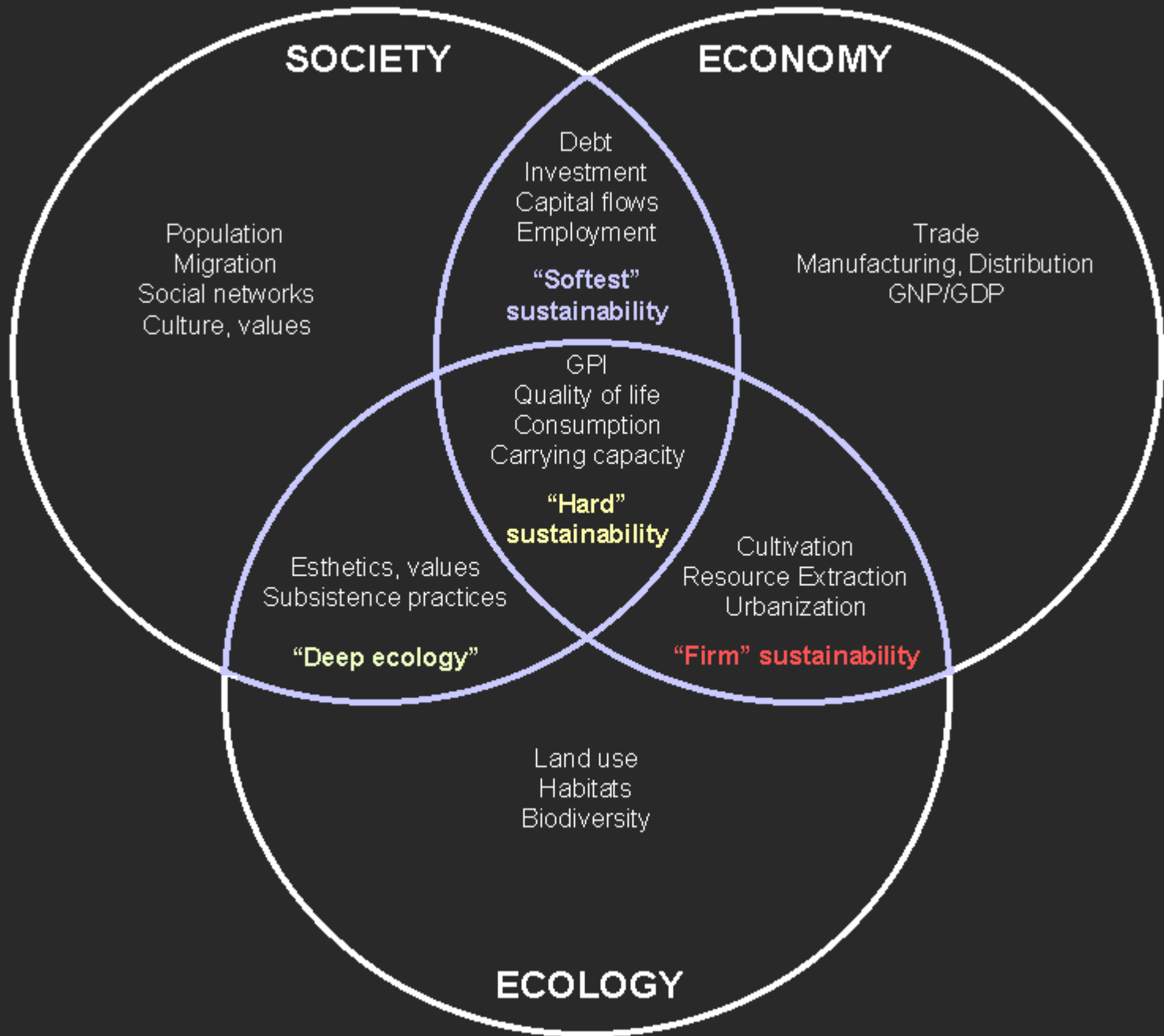


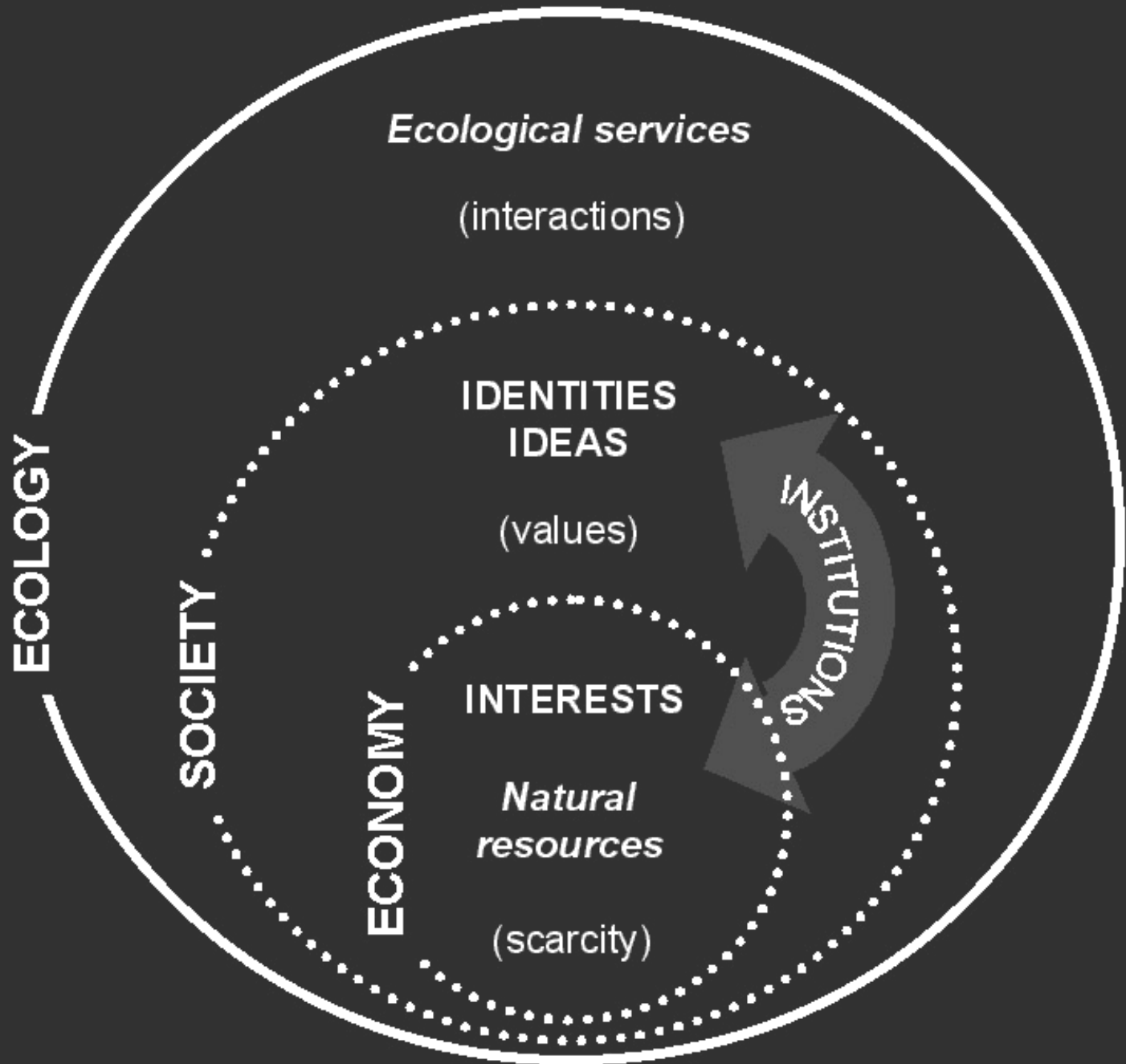
Why Ecological Economics?

“Too often scholars have functioned as if environment, politics, economy, and public values were separate spheres.”

John Wennersten

“Chesapeake: An Environmental Biography” (2001)





Scarcity: substitution and replenishment

	CROWDING	MATERIALS	ENERGY
MATERIALS	NON-RENEWABLES	SUBSTITUTION	ARTIFICIAL GOODS
	RENEWABLE RESOURCES	EXTINCTION	
REPLENISHMENT CAPACITY		(EXTERNALITIES)	
SYSTEMS	ENVIRONMENTAL SERVICES	DEGRADATION	ARTIFICIAL SYSTEMS

Interaction: the importance of boundary integrity

	ORGANISM / SPECIES	MATERIALS	ENERGY
ORGANISM	MICRO-ORGANISMS / IMMUNE SYSTEMS	TOXINS (endocrine systems)	
SPECIES	PREDATION PARASITISM	TOXINS (hormonal cycles)	HEATING / COOLING
ENVIRONMENT	COMPETITION		
	SYSTEM FUNCTIONS (nutrient cycles, soil fertility)	CHANGED MATERIAL AND ENERGY FLOWS (water or air cycling / purification, soil fertility, fecundity)	