

Industrial Ecology in Policy Making

What is achievable and what is not?

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Motivation & Objectives

Industrial Ecology

Increasing relevance for
policy making (esp. LCA)



Economics

Studying the effects of
regulatory action



Objectives

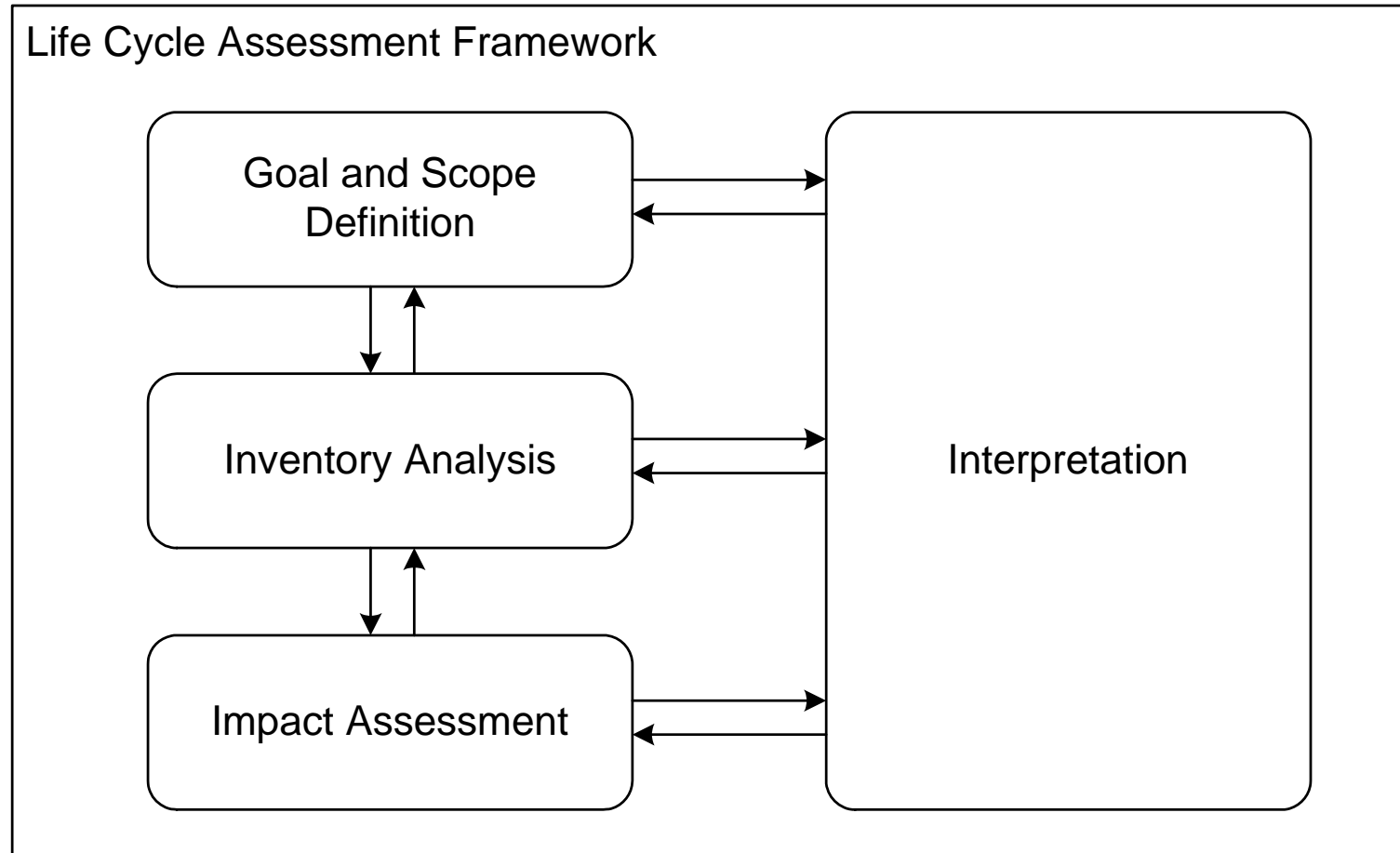
1. General

Economic issues in sound policy making

2. Specific

Assessment of life cycle based regulation (EuP Directive)

Life Cycle Assessment



Guinée et al. (2002)

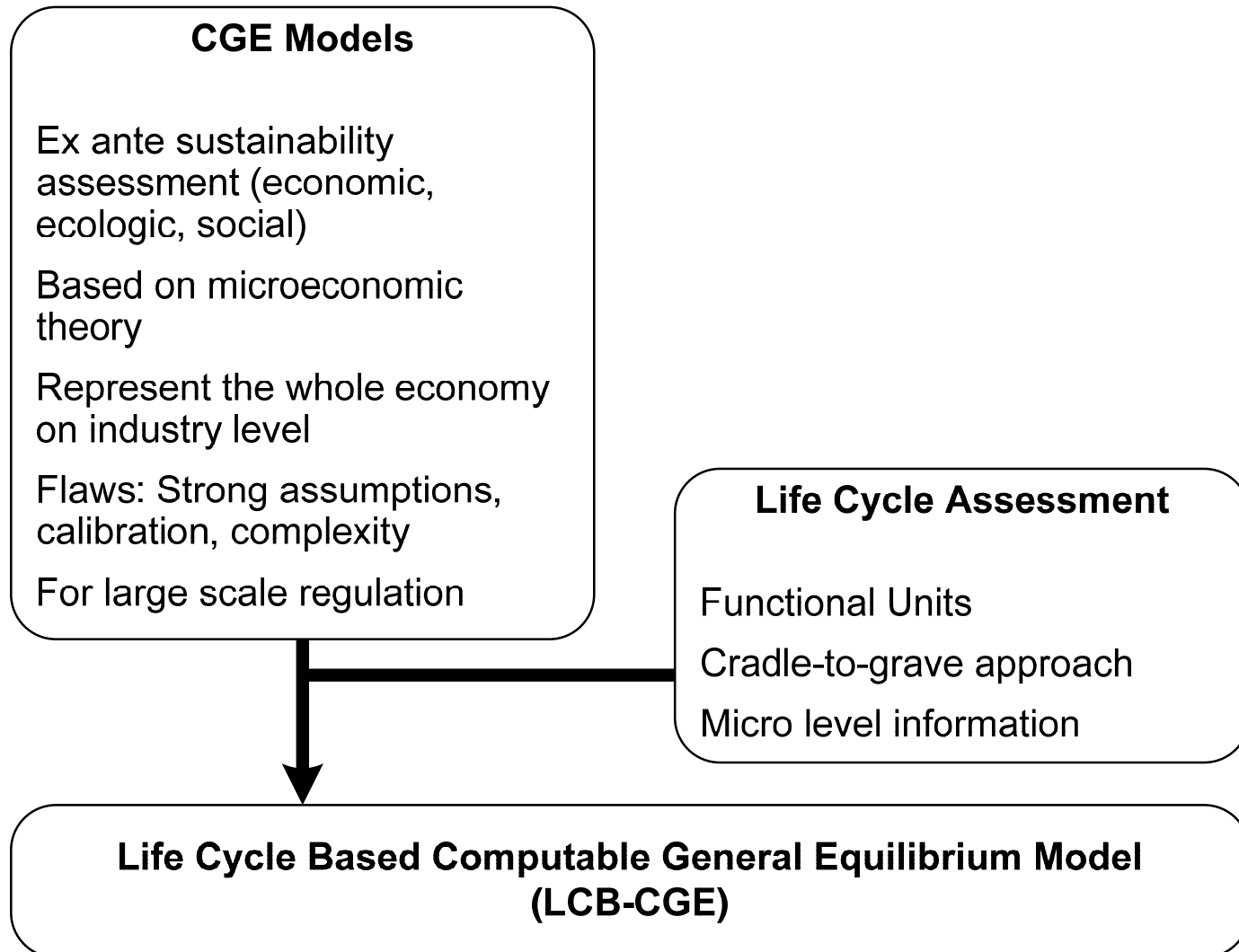
Economic Issues

	LCA
Benefits	?
Costs	
Direct Costs	
Partial Equilibrium Costs	
General Equilibrium Costs	
Rebound	
Redistribution	

What can LCA do?

	LCA
Benefits	+
Costs	
Direct Costs	+
Partial Equilibrium Costs	-
General Equilibrium Costs	-
Rebound	+ -
Redistribution	+ -

Life Cycle Based CGE Model



Conclusions

- Economic thought and economic modeling are necessary in policy making
- Industrial Ecology can bring new inputs into the realm of economics
- In the specific case: Life Cycle Based CGE Model a promising approach
- Next step: Development of this model